

Reference

!DB®/EXPLAIN for DB2

Version 500

Document Number TE53-5843-3

June 2000

Candle Corporation
201 North Douglas Street
El Segundo, California 90245

Registered trademarks and service marks of Candle Corporation: AF/OPERATOR, AF/PERFORMER, AF/REMOTE, Availability Command Center, Candle Command Center, Candle Electronic Customer Support, Candle Logo, Candle Management Server, Candle Management Workstation, Candle Technologies, CL/CONFERENCE, CL/SUPERSESSION, CT, CT/Data Server, CT/DS, DB Logo, DB/QUICKCHANGE, DELTAMON, ETEWatch, IntelliWatch, MQSecure, MQView, OMEGACENTER, OMEGAMON, OMEGAMON/e, OMEGAMON II, OMEGAMON Monitoring Agent, OMEGAVIEW, OMEGAVIEW II, Solutions for Networked Businesses, and Transplex.

Trademarks and service marks of Candle Corporation: Alert Adapter, Alert Adapter Plus, Alert Emitter, AMS, Amsys, AUTOMATED FACILITIES, Availability Management Systems, Candle Business Partner Logo, Candle Direct Logo, CandleLight, CandleNet, CandleNet 2000, CandleNet Portal, CCC, CECS, CICAT, CL/ENGINE, CL/GATEWAY, CL/TECHNOLOGY, CMS, CMW, Command & Control, CommandWatch, Connect-Two, CSA ANALYZER, CT/ALS, CT/Application Logic Services, CT/DCS, CT/Distributed Computing Services, CT/Engine, CT/Implementation Services, CT/IX, CT/Workbench, CT/Workstation Server, CT/WS, DB/DASD, DB/EXPLAIN, DB/MIGRATOR, DB/QUICKCOMPARE, DB/SMU, DB/Tools, DB/WORKBENCH, Design Network, DEXAN, eBA*ServiceMonitor, End-to-End, Enterprise Candle Command Center, Enterprise Candle Management Workstation, EPILOG, ERPNet, ESRA, HostBridge, IntelliWatch Pinnacle, Lava Console, Messaging Mastered, MQADMIN, MQEdit, MQEXPERT, MQMON, NBX, OMA, OMC Gateway, OMC Status Manager, OMEGACENTER Bridge, OMEGACENTER Gateway, OMEGACENTER Status Manager, OMEGAMON Management Center, OSM, PC COMPANION, Performance Pac, PowerQ, PQConfiguration, PQEdit, PQScope, Response Time Network, Roma, Roma Broker, Roma BSP, Roma Connector, Roma Developer, Roma FS/A, Roma FS/Access, Roma Network, Roma Systems Manager, Roma Workflow Access, Roma WF/Access, RTA, RTN, SentinelManager, Solutions for Networked Applications, Status Monitor, Tracer, Unified Directory Services and Volcano.

Trademarks and registered trademarks of other companies: AIX, DB2, and MQSeries are registered trademarks of International Business Machines Corporation. SAP is a registered trademark and R/3 is a trademark of SAP AG. UNIX is a registered trademark in the U.S. and other countries, licensed exclusively through X/Open Company Ltd. HU-UX is a trademark of Hewlett-Packard Company. SunOS is a trademark of Sun Microsystems, Inc.

All other company and product names used herein are trademarks or registered trademarks of their respective companies.

ProtoView Development Corp. - May contain DataTable Version 3.0 Copyright 1989—1996 by ProtoView Development Corp. and distributed under license by Candle Corporation.

Copyright © 1991, 2000, Candle Corporation, a California corporation. All rights reserved. International rights secured.

Threaded Environment for AS/400, Patent No. 5,504,898; Data Server with Data Probes Employing Predicate Tests in Rule Statements (Event Driven Sampling), Patent No. 5,615,359; MVS/ESA Message Transport System Using the XCF Coupling Facility, Patent No. 5,754,856; Intelligent Remote Agent for Computer Performance Monitoring, Patent No. 5,781,703; Data Server with Event Driven Sampling, Patent No. 5,809,238; Threaded Environment for Computer Systems Without Native Threading Support, Patent No. 5,835,763; Object Procedure Messaging Facility, Patent No. 5,848,234; Communications on a Network, Patent Pending; End-to-End Response Time Measurement for Computer Programs, Patent No. 5,999,705; Improved Message Queuing Based Network Computing Architecture, Patent Pending; User Interface for System Management Applications, Patent Pending.

NOTICE: This documentation is provided with RESTRICTED RIGHTS. Use, duplication, or disclosure by the Government is subject to restrictions set forth in the applicable license agreement and/or the applicable government rights clause.

This documentation contains confidential, proprietary information of Candle Corporation that is licensed for your internal use only. Any unauthorized use, duplication, or disclosure is unlawful.

Contents

Read This First	7
Preface	7
Contents of this Book	8
Adobe Portable Document Format	9
Documentation Conventions	10
Documentation Set	13
What's New	15
Version 500 Changes	15
!DB/EXPLAIN Object Panels	17
Chapter 1. !DB/EXPLAIN Panels	19
Introduction	19
Chapter contents	19
Administration Menu	21
BIND/REBIND Package	23
BIND/REBIND Plan	29
Collections	39
Column Distribution Statistics	41
Compare History	45
Costs	49
DBRMs	56
Estimator	67
Exceptions	93
EXPLAIN	95
EXPLAIN Compare	134
EXPLAIN History	144
Extract History	149
Extract Update	151
Index Keys	153
Libraries	155
Online Menu	160
Output Options	162
Package Connections	164
Packages	166
Plan Connections	183
Plan Package List	185
Plans	187
Primary Menu	209
Sessions Menu	211
Statements	212
Table Columns	226
Tables	240

Verification	243
Whatif	245
Housekeeping and Customization Panels	273
Chapter 2. Housekeeping and Customization	275
Introduction	275
Chapter Contents	275
BIND Compare Options	277
Build Tuning Parameters	281
Compare Options	284
Data Formats	286
!DB/EXPLAIN Configuration Information	288
!DB/Tools DB2 Configuration Information	290
!DB/Tools Global Configuration Information	293
!DB/Tools Global Information—DB2 Subsystem Name Table	295
!DB/Tools Profile Dataset List	297
Exception Options	299
EXPLAIN Defaults	303
EXPLAIN Display Tuning Parameters	307
EXPLAIN/SQL Defaults	310
Extract Processing Defaults	312
Housekeeping	315
Library Search Order	319
Miscellaneous Defaults	322
Output Options Defaults	326
Package BIND Overrides	328
Panel Filters	335
Panel Formats	337
Panel Sorts	339
Plan BIND Overrides	341
Recommendations Menu	347
Recommendations Panel 0	348
Recommendations Panel 1	350
Recommendations Panel 2	352
Recommendations Panel 3	354
Recommendations Panel 4	356
Recommendations Panel 5	358
Recommendations Panel 6	360
Recommendations Panel 7	362
Recommendations Panel 8	364
Recommendations Panel 9	366
Selection Masking	369
Set Defaults	373
SQL Defaults	377
SQL Formats for KTEXPL	379
Tuning Parameters	382

Appendixes	385
Appendix A. Commands Available from Object List Panels	387
Appendix B. Dictionary of !DB/EXPLAIN Commands	393
Appendix C. Selects Available from Object List Panels	409
Appendix D. Dictionary of Selects	411
Appendix E. !DB/EXPLAIN Sorts and Filters	423
Collections	424
Costs	425
DBRMs	428
Explain	431
Explain History	433
Host Variables	434
Libraries	435
Packages	436
Package Connections	440
Plans	441
Plan Connections	447
Plan Package List	448
Statements	449
Tables	450
Appendix F. Candle Customer Support	451
Customer Support Phone Numbers	453
Index	455

Preface

Efficient SQL is the foundation for optimal DB2 performance. !DB®/EXPLAIN for DB2 provides answers to SQL performance questions.

!DB/EXPLAIN provides developers with the means to more easily write efficient SQL code for high performance applications.

Using !DB/EXPLAIN, database administrators can perform the analysis needed to ensure that inefficient SQL does not degrade DB2 application or subsystem performance.

When used in conjunction with OMEGAMON II® for DB2, !DB/EXPLAIN provides a means for system programmers and DBAs to view access path data provided by !DB/EXPLAIN together with application trace and accounting data provided by OMEGAMON II for DB2 to quickly pinpoint poorly performing SQL and improve application performance.

This *!DB/EXPLAIN Reference* illustrates !DB/EXPLAIN's major object list panels and describes the fields each contains. It also describes the commands and selects available for use on each panel, and the formats in which each panel can be displayed. The panels that support Housekeeping and Customization are also described.

An associated publication, the *!DB/EXPLAIN User's Guide*, describes the features of !DB/EXPLAIN and guides you in performing common !DB/EXPLAIN tasks.

Contents of this Book

Overview

This unit describes the contents of each major section of this manual.

Content of major sections

Use the table to understand the organization and content of this reference.

Section name	Contents
Preface	The Preface describes the customer support available from Candle® Corporation, the documentation available with !DB/EXPLAIN, and the conventions used in the !DB/EXPLAIN publications.
!DB/EXPLAIN Object Panels	This section contains the object panels, with a description of the fields on the panels, as well as applicable formats, selects and commands.
Housekeeping and Customization Panels	This section contains the housekeeping and customization panels with a description of each field on each panel.
Appendixes	Use the appendixes to learn more about !DB/EXPLAIN commands, selects, and fields.

Adobe Portable Document Format

Introduction

Candle supplies documentation in the Adobe Portable Document Format (PDF). The Adobe Acrobat Reader prints PDF documents with the fonts, formatting, and graphics in the original document. To print a Candle document, do the following:

1. Specify the print options for your system. From the Acrobat Reader Menu bar, select **File > Print Setup...** and make your selections. A setting of 300 dpi is highly recommended as is duplex printing if your printer supports it.
2. To start printing, select **File > Print** on the Acrobat Reader Menu bar.
3. On the Print popup, select one of the **Print Range** options for
 - a single page
 - a range of pages
 - all of the document
4. (Optional) To fit oversize pages to the paper size currently loaded on your printer, select the **Shrink to Fit** option.

Printing problems?

Your printer ultimately determines the print quality of your output. Sometimes printing problems can occur. If you experience printing problems, potential areas to check are:

- settings for your printer and printer driver. (The dpi settings for both your driver and printer should be the same. A setting of 300 dpi is recommended.)
- the printer driver you are using. (You may need a different printer driver or the Universal Printer driver from Adobe. This free printer driver is available at www.adobe.com.)
- the halftone/graphics color adjustment for printing color on black and white printers. (Check the printer properties under **Start > Settings > Printer**. For more information, see the online help for the Acrobat Reader.)
- the amount of available memory in your printer. (Insufficient memory can cause a document or graphics to fail to print.)

For additional information on printing problems, refer to the documentation for your printer or contact your printer manufacturer.

Documentation Conventions

Overview

This guide uses the conventions described in this unit.

Convention Description

Refer to the table for a description of the documentation conventions used in this guide.

Convention	Description
Panels and figures	Panels and figures in this document are representations. Actual product panels may differ.
Revision bars	Revision bars (!) appear in the left margin to identify new or updated material.
Commands	DB2, TSO, ISPF, and !DB/EXPLAIN command names are in upper case.
Percent sign	When executing a CLIST, you can optionally precede the CLIST name with a percent sign (%) to achieve optimum performance. For example, to access !DB/EXPLAIN, you can invoke the CLIST KTE in the form KTE or %KTE .
Square brackets	Square brackets [] denote optional arguments. Arguments enclosed in square brackets are not required. In the following example, use of XLV is optional: [XLV]
Braces	Braces { } denote required arguments. In the following example, the <i>workload</i> keyword is required: MONITOR {workload} [time] [SUMMARY]

Convention Description (continued)

Convention	Description
<i>hilev</i>	<p>Lower-case italics in data set names denote variable qualifiers. Qualifiers are prefixes in a data set name that make the data set name unique. Some qualifiers used in this document are:</p> <p><i>hilev</i> A high-level qualifier; the first prefix or set of prefixes in the data set name.</p> <p><i>db2id</i> The DB2 subsystem identifier; used as a mid-level qualifier for some !DB@/Tools for DB2 data sets. The mid-level qualifier is the prefix or set of prefixes between the high-level qualifier and the last part of the data set name.</p> <p><i>extract_id</i> An extract ID; an identifier for the catalog data extracted from the DB2 catalog. It is used as a mid-level qualifier for some !DB/Tools data sets. The mid-level qualifier is the prefix or set of prefixes between the high-level qualifier and the last part of the data set name.</p> <p><i>product_id</i> A product ID; an identifier for the !DB/Tools product or products you are installing. It is used as a mid-level qualifier for some !DB/Tools data sets. The mid-level qualifier is the prefix or set of prefixes between the high-level qualifier and the last part of the data set name.</p>
'tddoc3.booklib.prod'	<p>Single quotes distinguish specific data set names from variable qualifiers. The data set name is shown in lower case and in the same font as the rest of the text.</p>
Function keys	<p>This guide does not refer to specific function keys, for example, F3. Because you may use the function key definitions provided by ISPF or choose to define your own function keys, this guide instructs you to enter a command on the command line or press the appropriate function key.</p> <p>Example: Type END on the command line and press Enter, or press the appropriate function key.</p>

Terminology—panel versus display

In this document, the term “panel” is used to denote a facsimile of an actual screen you might see when logged onto !DB/EXPLAIN. The term “display” is used to denote the information that is contained on a panel or the equivalent information written to an output device such as a printer or output file.

This distinction is especially important in the chapters of this manual that discuss the use of !DB/EXPLAIN in batch. In these chapters, you are asked to construct batch jobs to perform processing equivalent to entering commands, filters, and sorts on the command line of an object panel. Thus:

- A discussion of the “EXPLAIN display” refers to the EXPLAIN information presented either as a series of panel images or as information contained in a file that can be output to a printer.
- A discussion of a batch job containing commands usable from the “Statements display” implies that you can use only those commands you might use in an online session from the Statements panel.

Documentation Set

Introduction

Candle provides a complete set of documentation for !DB/EXPLAIN. Each manual in this documentation set contains a specific type of information to help you use the product.

Candle welcomes your comments and suggestions for changes or additions to the documentation set. A user comment form, located at the back of each manual, provides simple instructions for communicating with Candle's Information Development department. You can also send email to **UserDoc@candle.com**. Please include the product name, version, and book title in the subject line. To order additional manuals, contact Candle Customer Support.

The documentation listed in the following table is available for !DB/EXPLAIN.

Table 1. !DB/EXPLAIN Documentation		
Doc Number	Title	Description
TE54-5842	<i>!DB/EXPLAIN User's Guide</i>	Tells how to use !DB/EXPLAIN and its features
TE53-5843	<i>!DB/EXPLAIN Reference</i>	Provides a reference for major !DB/EXPLAIN functions and features
TI51-5840	<i>!DB/Tools Installation and Customization Guide</i>	Tells how to install !DB/EXPLAIN as well as the other !DB®/Tools for DB2 products. It also contains information about security and authorizations.

Online documentation for BookManager

In addition to the printed versions, !DB/EXPLAIN documentation is available in BookManager format. Both major !DB/EXPLAIN releases and maintenance releases between major releases contain updated BookManager documentation. See the *!DB/Tools Installation and Customization Guide* for information regarding these files.

For more information about using BookManager, see these IBM documents:

IF you want to ...	THEN see ...
put our book on a bookshelf,	<i>IBM BookManager BUILD/MVS Preparing Online Books SC38-2036</i>
display our book,	<i>IBM BookManager READ/MVS Displaying Online Books SC38-2034</i>

Version 500 Changes

Overview

This section describes what is different between !DB/EXPLAIN and previous versions of !DB/EXPLAIN.

Differences in this release

| Primarily, the Version 500 release of !DB/EXPLAIN provides full
| compatibility for DB2 Version 6. However, some DB2 enhancements are not
| exploited by !DB/EXPLAIN Version 500.

DB2 Version 6 contains enhancements for

- defining and manipulating data objects
- conducting e-business
- improving performance and availability of database applications
- managing the database environment
- increasing database and query capacity

This release of !DB/EXPLAIN also continues to support fully earlier releases of DB2 and is also Y2K compliant.

!DB/EXPLAIN Object Panels

Chapter 1. !DB/EXPLAIN Panels

Introduction

This chapter provides reference information about major !DB/EXPLAIN functions and features. Information is referenced by major panel function and is mapped by sections.

Description	Describes and defines panel functions
Format	For panels available in more than one format, describes the formats
Access	Tells you how to access panels
Panels	Shows you the major panel and its associated panels and panel formats
Fields and Associated Sorts and Filters	Gives information about the fields on a panel. Sorts and filters are listed if they are available.
Selects	Describes available selects
Commands	Describes available commands

Chapter contents

Administration Menu	21
BIND/REBIND Package	23
BIND/REBIND Plan	29
Collections	39
Column Distribution Statistics	41
Compare History	45
Costs	49
DBRMs	56
Estimator	67
Exceptions	93
EXPLAIN	95
EXPLAIN Compare	134
EXPLAIN History	144
Extract History	149
Extract Update	151
Index Keys	153
Libraries	155

Online Menu	160
Output Options	162
Package Connections	164
Packages	166
Plan Connections	183
Plan Package List	185
Plans	187
Primary Menu	209
Sessions Menu	211
Statements	212
Table Columns	226
Tables	240
Verification	243
Whatif	245

Administration Menu

Overview

This unit describes the !DB/EXPLAIN Administration Menu.

Background about the Administration Menu

The Administration Menu (KTEPADMN) provides entry to !DB/EXPLAIN administration menu functions. You can find information about using !DB/EXPLAIN's Administration Menu and its functions in “Using the Administration Menu” in the *!DB/EXPLAIN User's Guide*.

Access

You access the !DB/EXPLAIN Administration Menu from !DB/EXPLAIN's Primary Menu or by typing **ADMIN** on the command line of an object list panel.

Panel

The following illustration shows the Administration Menu panel.

```

----- DB/EXPLAIN DB2=D42B -----
Cmd ==>

                A D M I N I S T R A T I O N   M E N U
Cmds: GLOBAL (Menu) 1
-----

Option ==>

    1 Activity Log 2
    2 Authorizations 3
    3 Extract Ids 4
    4 Extract History 5
    5 Housekeeping 6
    6 Refresh displays from extract 7
    7 Display DB/Tools profile data sets 8
    8 Set DB/Tools profile data sets 9

```

Elements of the Administration Menu (continued)

- 1** Command entered from this menu to obtain a detailed global command menu.
- 2** Displays log of your activity; you can access the activity log from other !DB/EXPLAIN panels by entering the command ACTLOG on the command line.
- 3** If you have authorization, system displays a list of authorized users of !DB/EXPLAIN Without appropriate authority, you cannot view or alter the list.
- 4** Displays the !DB/Tools Global Information--DB2 Subsystem Name Table panel that contains the extract IDs of configured DB2 subsystems available to you mapped against their associated subsystems IDs and MVS IDs.
- 5** Displays extract history.
- 6** Takes you directly to the Houskeeping Main Menu.
- 7** Rebuilds the displays generated from the extract
- 8** Displays profile datasets information panel.
- 9** Lets you set and maintain profile datasets.

BIND/REBIND Package

Overview

This unit describes the BIND/REBIND Package panel.

Background about the BIND/REBIND Package panel

The BIND/REBIND Package panel (KTEPBIKA) generates the commands necessary to BIND/REBIND packages. The BIND Package panel displays when BIND or REBIND is invoked by entering a B select from the DBRMS panel or a B or R select from the Packages panel.

Steps to BIND or REBIND a package

Here are the steps to BIND or REBIND a package.

- If BINDing from a DBRM:
 1. Type a DBRM member name and library.

Only one DBRM can be bound into a package. There is a one-to-one correspondence between a package and a DBRM member.
 2. If system connections are to be enabled or disabled type Y (Yes) in the Enable/Disable Connections field. The System Connection Names panel (KTEPBIKC) displays.
- If COPYing from Packages:
 1. Enter a collection ID and package ID.
 2. If system connections are to be enabled or disabled, type Y (Yes) in the Enable/Disable Connections field. The System Connection Names panel (KTEPBIKC) displays.

Copying packages and BINDing DBRMs are mutually exclusive.

If no previous errors have occurred, and if you have requested it on Housekeeping's Output Options Defaults panel, the Output Options panel appears to allow you to specify where the generated BIND/REBIND commands are stored.

Overriding BIND parameters

Housekeeping's Package BIND Overrides panel allows you to make global changes to BIND parameters for more than one package. It allows you to override attributes of an existing package when generating a BIND or REBIND command. Fields for which no overrides are shown on the Package BIND Overrides panel cannot be overridden. Refer to “Package BIND Overrides” on page 328 for more information.

Caution when executing BINDs or REBINDs

When executing the BIND commands generated by !DB/EXPLAIN, remember that your output can be limited by the amount of available storage.

Access

This panel is accessed from either the Packages panel using the B or R select, or the DBRMS panel using the B select.

Panels

The following illustration shows the BIND/REBIND Package panel.

```

----- DB/EXPLAIN DB2=D42B -----
Cmd ==>

                P A C K A G E   B I N D

BIND or REBIND : BIND                Action  : R   (R Replace A Add)
                                           Flag    : I   (I / W / E / C)
Package       : KTEEXDB3              Isolation: S   (R RR T RS CS U UR)
Location      :                       Release  : C   (C Commit D Deallocate)
Collection    : CANDLE_SYSTEM         Validate : B   (R Run B Bind)
Owner         : MYUSER                 Explain  : N   (Y Yes N No)
Qualifier     : SYSIBM                 Sqlerror: N   (N Nopackage C Continue)
Dynamicrules  : ( B / R / blank)       Degree   : 1   (1 ANY)
Keepdynamic   : N ( Y Yes N No )       Deferprep:   (Y Yes N No blank )
Reopt(VARS)   : N ( Y Yes N No )       Currentdata: Y (Y Yes N No )
Version       : V500
Enable/Disable Connections?: * (Y Yes N No * ALL)
Remote ENABLE?      : (Y Yes N No )
Source:
Library           : CANDLE.DBTOOLS.DBRM                DBRM: KTEEXDB3
- or -
Collection       :                       Package      :
Version          :

ENTER to process  END to cancel
    
```

From the System Connection Names panel, you can enable or disable system connections.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                     SCROLL ==> PAGE

                SYSTEM CONNECTION TYPES FOR BIND PACKAGE
Cmds: GLOBAL (Menu)
-----

Enter system connect types to be Enabled/Disabled for Package ALTSQLUC

                System      Connection      Enable?
                -----      -----      -----

More Connections?: N (Y Yes N No)
    
```

Fields and Associated Sorts and Filters

FIELD	ON PANEL	DESCRIPTION
ACTION on Package	KTEPBIKA	Indicates whether to replace the application package: R Replace A Add
BIND or REBIND	KTEPBIKA	Type of command.
COLLECTION	KTEPBIKA	Collection name where package is to reside.
COLLECTION (SOURCE)	KTEPBIKA	Collection in which package to be copied resides.
CONNECTION	KTEPBIKC	Connection ID.
CURRENTDATA	KTEPBIKA	Indicates the data currency requirement of ambiguous cursors Y Bind with CURRENTDATA (YES) N Bind with CURRENTDATA (NO)
DEFERPREP	KTEPBIKA	Indicates whether PREPARE statement referring to a remote object is deferred until the first EXECUTE, OPEN, or DESCRIBE for the statement is issued. Valid values include: Y Yes N No blank Inherit from PLAN
DEGREE	KTEPBIKA	Determines whether I/O Parallelism is enabled 1 Generated BIND/REBIND contains the DEGREE(1) clause—I/O parallelism disabled. ANY Generated BIND/REBIND contains the DEGREE(ANY) clause. I/O parallelism value set by DB2. blank No degree() clause generated so default of 1 is used.
DBRM Member	KTEPBIKA	DBRM member name.
DYNAMICRULES	KTEPBIKA	If non-blank, indicates the value to generate in the DYNAMICRULES() clause: R Generate DYNAMICRULES(RUN) to cause dynamic SQL to be handled like dynamic SQL at run time. B Generate DYNAMICRULES(BIND) to cause dynamic SQL to be handled like static SQL at run time.
ENABLE/DISABLE CONNECTIONS?	KTEPBIKA	Indicates whether to include system connections: Y Yes N No * All connections Takes you to KTEPBIKC.

FIELD	ON PANEL	DESCRIPTION
ENABLED?	KTEPBIKC	Indicates whether connection is enabled: Y Yes N No
EXPLAIN	KTEPBIKA	EXPLAIN at BIND? Y Yes N No
FLAG	KTEPBIKA	Indicates what levels of messages to display: I Informational, Warning, Error, and Completion messages W Warning, Error, and Completion messages E Error and Completion messages C Completion messages only
ISOLATION	KTEPBIKA	Isolation Level: R RR Repeatable Read S CS Cursor Stability T RS Read Stability U UR Uncommitted Read blank Not specified and therefore at the level specified for the plan executing the package
KEEPDYNAMIC	KTEPBIKA	Indicates if prepared dynamic SQL should be purged at the end of a unit of work. Valid values include: Y Keep dynamic SQL past commit or rollback N Destroy dynamic SQL at commit or rollback
LIBRARY	KTEPBIKA	Library that contains the DBRMs.
LOCATION	KTEPBIKA	Location where the package is to be bound. Location is required only if a remote unit of work is being used.
MORE CONNECTIONS?	KTEPBIKC	Indicates whether to include more connections: Y Yes N No
OWNER of PACKAGE (AUTHID)	KTEPBIKA	Authorization ID of the owner of the package.
PACKAGE	KTEPBIKA	Package ID.
PACKAGE	KTEPBIKC	Package ID.
PACKAGE (SOURCE)	KTEPBIKA	Package ID to be copied.
QUALIFIER	KTEPBIKA	Implicit qualifier for the unqualified table, view, index, and alias names in the static SQL statements of the package.
RELEASE	KTEPBIKA	Indicates when resources are released: C At commit D At deallocation blank Not specified and therefore at the level specified for the plan executing the package.

BIND/REBIND Package

FIELD	ON PANEL	DESCRIPTION
REOPT(VARS)	KTEPBIKA	Indicates whether the access path is re-determined at execution time using input variables. Valid values include: Y Determines access path at execution time for SQL statements with variable values N Determines access path at bind time
SQLERROR	KTEPBIKA	Indicates whether to continue processing to produce a package after finding SQL errors: N No Package C Continue
SYSTEM	KTEPBIKC	Environment for connection. Values are: BATCH TSO batch DB2CALL DB2 call attachment facility CICS Customer Information Control System DLIBATCH DLI batch support facility IMS IMS region IMSBMP IMP BMP region IMSMPP IMS MPP or IFP region REMOTE Remote application server
VALIDATE	KTEPBIKA	Indicates how to handle "OBJECT NOT FOUND" and "NOT AUTHORIZED" errors that occur at bind time: R RUN B BIND
VERSION	KTEPBIKA	Indicates whether to replace a specific version on an existing package.
VERSION (SOURCE)	KTEPBIKA	Package version to be copied.

BIND/REBIND Plan

Overview

This unit describes the BIND/REBIND Plan panel.

Background about the BIND/REBIND Plan panel

The BIND/REBIND Plan panel (KTEPBIPL) generates BIND or REBIND commands.

Steps to BIND or REBIND a plan

Here are the steps to BIND a plan.

- If DBRMs are to be bound into the plan:
 1. Type Y (Yes) in the Include DBRMs field. The DBRM Member Names panel (KTEPBIDB) appears.
 2. You are prompted for additional library names on the Library Names for BIND Plan panel.
- If system connections are to be enabled or disabled:

Type Y (Yes) in the Enable/Disable Connections field and the System Connection Types panel appears.
- If packages are to be bound into the plan:

Type Y (Yes) in the Include Package List field. You are then prompted for a list of packages.

If no previous errors have occurred, and if you have requested it on Housekeeping's Output Options Defaults panel, the Output Options panel appears to allow you to specify where to store the generated BIND commands.

Overriding BIND parameters

Housekeeping's Plan BIND Overrides panel allows you to make global changes to BIND parameters for more than one plan. Fields for which no overrides are shown on the Plan BIND Overrides panel cannot be overridden. Refer to “Plan BIND Overrides” on page 341 for more information.

Caution when executing BINDs or REBINDs

When executing the BIND commands generated by !DB/EXPLAIN, remember that your output can be limited by the amount of available storage.

Access

BIND/REBIND Plan can be accessed from the Plans panel by using the B or R select.

Panels

The following illustration shows the BIND/REBIND Plan panel.

```

----- DB/EXPLAIN DB2=D42B -----
Cmd ==>

                P L A N   B I N D

BIND or REBIND :   BIND                Action   : R ( R Replace A Add )
Plan           : PLAN300                Retain    : Y ( Y Yes  N No )
Owner          : MYUSER                  Flag      : I ( I / W / E / C )
Qualifier     : MYUSER                  Isolation : S ( R RR  T RS  S CS  U UR )
Cache Size    : 1024                    Acquire   : U ( U Use  A Allocate )
Current Server:                          Release    : C ( C Commit D Deallocate )
Current Data  : Y ( Y Yes  N No )        Validate  : R ( R Run  B Bind )
Keepdynamic   : N ( Y Yes  N No )        EXPLAIN  : N ( Y Yes  N No )
Reopt(VARS)  : N ( Y Yes  N No )        Deferprep: N ( Y Yes  N No )
Dynamicrules  : (blank / B)              Degree    : 1 ( 1 / ANY )
                                           SQLRULES : D ( D DB@  S STD )
                                           Disconnect: E (E Explicit A Automatic
                                           C Conditional)

Include DBRMs?:           : (Y Yes  N No)
Include Package List?:   : (Y Yes  N No)
Enable/Disable Connections?: * (Y Yes  N No * ALL)

ENTER to process  END to cancel
    
```

!DB/EXPLAIN displays the DBRM Member Names panel to permit you to include additional DBRMs in the plan.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 3
CMD ==>                               SCROLL ==> PAGE

                DBRM MEMBER NAMES FOR BIND PLAN

Cmnds: GLOBAL (Menu)
-----

Enter DBRM member names to be included in PLAN DSCSAMP4

----- DBRM -----
Member      Member      Member      Member
-----
DSCSAMP4

More DBRMs?: (Y Yes  N No)
    
```

Panels (continued)

!DB/EXPLAIN displays the Library Names panel to permit you to search additional DBRM libraries.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 3
CMD ==>                               SCROLL ==> PAGE

                                LIBRARY NAMES FOR BIND PLAN

      Cnds: GLOBAL (Menu)
-----

Enter DBRM Library names to be included in the DBRMLIB concatenation for
PLAN DBT925E

      LIBRARY NAME
      -----
      TDDB00.DBT925.CNTL

      More Libraries?:   (Y Yes  N No)
    
```

The System Connection Types panel lets you enable/disable system connection types.

```

----- DB/EXPLAIN DB2=D42B ----- LINE 1 OF 3
Cmd ==>                               SCROLL ==> PAGE

                                SYSTEM CONNECTION TYPES FOR BIND PLAN

      Cnds: GLOBAL (Menu)
-----

Enter system connect types to be Enabled/Disabled for Plan $PMRDEMO

                                SYSTEM      CONNECTION      ENABLE?
                                -----      -----      -----

      More Connections?: N (Y Yes  N No)
    
```


Panels (continued)

Use the Package List panel to include additional packages in the plan.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 3
CMD ===>                               SCROLL ===> PAGE

                                Package List for Bind Plan
                                Cnds: GLOBAL (Menu)
-----
Enter names to be included in list for Plan DSCSAMP4

      Location           Collection           Package
      -----           -----           -----

More Package Lists?: N (Y Yes  N No)

```

Fields

The following table summarizes input needed for the BIND function. Information on the related panels BIND/REBIND Plan (KTEPBIPL), DBRM Member Names (KTEPBIDB), and Library Names (KTEPBILI) has been combined.

FIELD	ON PANEL	DESCRIPTION	TAKES YOU TO...
ACQUIRE	KTEPBIPL	Indicates when resources are obtained: A At allocation U Use	
ACTION ON PLAN	KTEPBIPL	Indicates whether to replace the application plan: R Replace A Add	
BIND or REBIND	KTEPBIPL	Type of command.	
CACHE SIZE	KTEPBIPL	Size measured in bytes of the cache to be acquired for the plan.	
COLLECTION	KTEPBIPK	Collection name where package resides.	
CONNECTION	KTEPBIPC	Connection ID.	
CURRENTDATA	KTEPBIPL	Indicates the data currency requirement of ambiguous cursors. Y Bind with CURRENTDATA (YES) N Bind with CURRENTDATA (NO)	
CURRENTSERVER (Server)	KTEPBIPL	Location name specified with the CURRENTSERVER option when the plan was last bound. Blank if none was specified.	
DBRM MEMBER	KTEPBIDB	DBRM member name.	Library Names (KTEPBILI)
DEGREE	KTEPBIPL	Determines whether I/O Parallelism is enabled 1 Generated BIND/REBIND contains the DEGREE(1) clause—I/O parallelism disabled. ANY Generated BIND/REBIND contains the DEGREE(ANY) clause. I/O parallelism value set by DB2. blank No degree() clause generated so default of 1 is used.	

FIELD	ON PANEL	DESCRIPTION	TAKES YOU TO...
DEFERPREP	KTEPBIKA	<p>Indicates whether the PREPARE statement referring to a remote object is deferred until the first EXECUTE, OPEN, or DESCRIBE for the statement is issued. Valid values include:</p> <p>Y Yes N No</p>	
DISCONNECT	KTEPBIPL	<p>Determines whether disconnect is explicit, automatic, or conditional The values are:</p> <p>E Generated BIND/REBIND command contains the clause DISCONNECT(EXPLICIT) A Generated BIND/REBIND command contains the clause DISCONNECT(AUTOMATIC) C Generated BIND/REBIND command contains the clause DISCONNECT(CONDITIONAL)</p>	
DYNAMICRULES	KTEPBIPL	<p>Indicates whether run time or bind time rules will apply to a dynamic SQL statement at run time. If this field is non-blank, it specifies the value to be generated in the DYNAMICRULES() clause:</p> <p>R Generate DYNAMICRULES(RUN). B Generate DYNAMICRULES(BIND)</p>	
ENABLE/DISABLE CONNECTIONS?	KTEPBIPL	<p>Indicates whether to include system connections:</p> <p>Y Yes N No * All connections</p>	If yes, System Connection Types (KTEPBIPC)
ENABLED?	KTEPBIPC	<p>Indicates whether to enable the connection:</p> <p>Y Yes N No</p>	
EXPLAIN	KTEPBIPL	<p>Explain at BIND?</p> <p>Y Yes N No</p>	

FIELD	ON PANEL	DESCRIPTION	TAKES YOU TO...
FLAG	KTEPBIPL	Indicates what levels of messages to display: I Informational, Warning, Error, and Completion messages W Warning, Error, and Completion messages E Error and Completion messages C Completion messages only	
INCLUDE DBRMS?	KTEPBIPL	Indicates whether to include DBRMs: Y Yes N No	If yes, DBRM Member Names (KTEPBIDB)
INCLUDE PACKAGE LIST?	KTEPBIPL	Indicates whether to include packages: Y Yes N No	If yes, Package List for Bind (KTEPBIPK)
ISOLATION	KTEPBIPL	Isolation Level: R RR Repeatable Read S CS Cursor Stability T RS Read Stability U UR Uncommitted Read	
KEEPDYNAMIC	KTEPBIPL	Indicates if prepared dynamic SQL should be purged at the end of a unit of work. Valid values include: Y Keep dynamic SQL past commit or rollback. N Destroy dynamic SQL at commit or rollback.	
LIBRARY NAME	KTEPBILI	Library name.	
LOCATION	KTEPBIPK	Location where package is to be bound.	
MORE CONNECTIONS?	KTEPBIPC	Indicates whether to include more connections: Y Yes N No	
MORE DBRMs?	KTEPBIDB	Indicates whether to include more DBRMs: Y Yes N No	
MORE LIBRARIES?	KTEPBILI	Indicates whether to include more libraries: Y Yes N No	

FIELD	ON PANEL	DESCRIPTION	TAKES YOU TO...
MORE PACKAGE LISTS?	KTEPBIPK	Indicates whether to include more packages: Y Yes N No	
OWNER of PLAN(AUTHID)	KTEPBIPL	Authorization ID of the owner of the application plan.	
PACKAGE	KTEPBIPK	Package ID.	
PLAN	KTEPBIPL	Name of the application plan.	
QUALIFIER	KTEPBIPL	Implicit qualifier for the unqualified table, view, index, and alias names in the static SQL statements of the plan.	
RELEASE	KTEPBIPL	Indicates when resources are released: C At commit D At deallocation	
REMOTE ENABLE?	KTEPBIPL	Indicates whether to enable the remote connection: Y Yes N No	
REOPT(VARS)	KTEPBIKA	Indicates whether the access path is re-determined at execution time using input variables Y Keep dynamic SQL past commit or rollback N Destroy dynamic SQL at commit or rollback	
RETAIN	KTEPBIPL	Preserves EXECUTE authority when an application plan is replaced. It is applicable only if ACTION(REPLACE).	
SQLRULES	KTEPBIPL	Values are: D Generated BIND/REBIND command contains the clause SQLRULES(DB2) S Generated BIND/REBIND command contains the clause SQLRULES(STD) blank Not specified; thus generated clause contains the default (=DB2).	

BIND/REBIND Plan

FIELD	ON PANEL	DESCRIPTION	TAKES YOU TO...
SYSTEM	KTEPBIPC	Environment for connection. Values are: BATCH TSO batch DB2CALL DB2 call attachment facility CICS Customer Information Control System DLIBATCH DLI batch support facility IMS IMS region IMSBMP IMP BMP region IMSMPP IMS MPP or IFP region	
VALIDATE	KTEPBIPL	Indicates when to handle OBJECT NOT FOUND and NOT AUTHORIZED errors that occur at bind time: R RUN B BIND	

Collections

Overview

This unit describes the Collections panel.

Background about the Collections panel

DB2 permits the grouping of packages into collections. Collections are not physical entities, and consequently no DB2 table exists for them.

The Collections panel (KTEPCLTN) in !DB/EXPLAIN lists collection IDs and locations for all packages within the DB2 catalog.

Access

The Collections panel can be accessed through the Primary or Sessions Menus, or through the Plans or Packages panels.

Panel

This is the Collections panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE

                                C O L L E C T I O N S
      Cnds: DO (Menu) GLOBAL (Menu)           Selects: ? (Menu)
-----
SEL      COLLECTION                LOCATION
---      -
-        DBTCL1
-        DBTCL1                    D23A
-        DESCOL01                  D23A
-        DSNESPCS
-        DSNESPRR
-        DSNQCATV                  D23A
-        EXPCOL2
-        EXPCOL3
-        GULCOL
-        GULCOL1
-        GULCOL11
-        GULCOL12
-        GULCOL13                  D23A
-        GULCOL14
-        GULCOL15
-        GULCOL16

```

Fields and Associated Sorts and Filters

FIELD	DESCRIPTION	SORTS/ FILTERS
COLLECTION	Name of the package collection. Source: SYSIBM.SYSPACKLIST.COLLID	QCOL
LOCATION	Location of the package: * Location to be determined at run time blank Local nonblank Location name Source: SYSIBM.SYSPACKLIST.LOCATION	QLOC Note: Filtering for QLOC has been defined as a special filter where the wild card % is used instead of * for this field. The wild card * will not be recognized as a wild card for this field.

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
K	Display all packages associated with the selected collection.	Packages (KTEPKACK)
M	Display all package lists associated with the selected collection.	Plan Package List (KTEPPKPL)
P	Display all plans associated with the selected collection.	Plans (KTEPPLAN)

Column Distribution Statistics

Overview

This unit describes the Column Distribution Statistics panel.

Background about the Column Distribution Statistics panel

The Column Distribution Statistics panel (KTEPCDIS) allows the user to view column distribution statistics. The user may update, delete, or insert data rows on this panel.

- To update row data, overwrite the current information.
- To delete row data, enter the **D** select on the row.
- To insert row data, enter the **I** select or the **R** select to insert a blank line or repeat a row respectively.

The Column Distribution Statistics function is available only for DB2 Version 3 or later.

Access

Column Distribution Statistics is invoked whenever the user selects a column with **S** on the Table Columns Panel (KTEPTCOL).

Panels

The Column Distribution Statistics panel is available in two formats. This is format 1.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 4
CMD ==>                                SCROLL ==> CSR
                COLUMN DISTRIBUTION STATISTICS
      Cmts: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
TABLE=D23B.PROD.COLUMNS                COLUMN=THE_VALUE

SEL  PART  FREQ%  NULL?  VALUE
-----
-      0      1      N      JJ
-      0      2      N      JK
-      0     30      N      33
-      1      1      N      JJ
-      1      2      N      KK
-      1      2      N      MJ
X      2     40      N      FF444444
                        33000000
-      2     20      N      44
    
```

This is format 2.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 4
CMD ==>                                SCROLL ==> CSR
                COLUMN DISTRIBUTION STATISTICS
      Cmts: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
TABLE=D23B.PROD.COLUMNS                COLUMN=THE_VALUE

SEL  PART  FREQ%  NULL?  VALUE
-----
-      0      1      N      JJ
                        STATS TIMESTAMP : 1999/09/09 02:02:02
-      0      2      N      JK
                        STATS TIMESTAMP : 1999/09/09 02:02:02
-      0     30      N      33
                        STATS TIMESTAMP : 1999/09/09 02:02:02
-      1      1      N      JJ
                        STATS TIMESTAMP : 1999/09/09 02:02:02
-      1      2      N      KK
                        STATS TIMESTAMP : 1999/09/09 02:02:02
-      1      2      N      MJ
X      2     40      N      FF444444
                        33000000
                        STATS TIMESTAMP : 1999/09/09 02:02:02
-      2     20      N      44
                        STATS TIMESTAMP : 1999/09/09 02:02:02
    
```

Fields

Fields marked with an asterisk are updateable.

FIELD	DESCRIPTION	NOTES
COLUMN=	The column name.	
FREQ% *	Percentage of rows that contain the specified VALUE.	Source: SYSIBM.SYSCOLDIST.FREQUENCY if the partition number is 0. Source: SYSIBM.SYSCOLDISTSTATS.FREQUENCY if the partition number is non-zero.
NULL? *	Indicates whether the column value is null. The value in the field may be: Y The column value is null. N The column value is not null. If the value in the field is Y, the VALUE field is ignored.	Source: SYSIBM.SYSCOLVALUE
PART *	The partition number.	Source: SYSIBM.SYSCOLDISTSTATS.PARTITION if the partition number is non-zero.
STATS TIMESTAMP	Format 2 only. The statistics timestamp value from the Catalog.	This field is set to the CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSCOLDIST.STATSTIME Source: SYSIBM.SYSCOLDISTSTATS.STATSTIME
TABLE=	Name of the table to which the listed column belongs.	
VALUE *	Value of the column. The field may span multiple lines. Its length is determined by the length of the column.	Source: SYSIBM.SYSCOLDIST.COLVALUE if the partition number is 0. Source: SYSIBM.SYSCOLDISTSTATS.COLVALUE if the partition number is non-zero.

Selects

SELECT	DESCRIPTION
C	Display VALUE in character format. This select is only available for character or graphic data columns.
D	Delete the current row unless this function was entered from the WHATIF function. If entered from WHATIF, you can only delete PART=0 rows.
I	Insert a row following the current row unless this function was entered from the WHATIF function. If entered from WHATIF, you can only insert PART=0 rows.
R	Repeat the current row
X	Display VALUE in hexadecimal format. This select is only available for character or graphic data columns.

Commands

COMMAND	DESCRIPTION
CHAR	Display all lines in character format. This command only applies to character or graphic data columns.
DELETE	Delete all lines unless this function was entered from the WHATIF function. If entered from WHATIF, you can only delete PART=0 rows.
HEX	Display all lines in hexadecimal format. This command only applies to character or graphic data columns.
NEWSET	Establish a new statistics set.
RESET	Reset column distribution statistics value to the last statistics set value. (A statistics set is established when you enter the Column Distribution Statistics panel or when you issue the NEWSET command.)

Compare History

Overview

This unit describes the Compare History panel.

Background about the Compare History panel

The Compare History (KTEPJHIS) panel shows all corresponding differences between two plans, DBRMs, or packages.

- When comparing two plans, corresponding data from SYSPLAN is compared.
 - When comparing two DBRMs, corresponding data from SYSDBRM is compared.
 - When comparing two packages, corresponding data from SYSPACKAGE is compared.
-

Access

To use this function, select two items to compare from either the Plans, DBRMs, or Packages panels using the **J** select or the IMPACT command.

When you exit the Compare History panel, you return to the invoking panel.

Panel

The Compare History panel is a text only panel. There are no associated filter or sort panels.

```
----- DB/EXPLAIN  DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE
                                C O M P A R E  H I S T O R Y

  Cnds: DO (Menu) GLOBAL (Menu)
-----
PLAN: CHGPLANX                      BOUND: 1999/11/30 05:46:51.840000
PLAN: DSDZPLAN                      BOUND: 1999/12/06 10:48:53.880000

PLAN: CHGPLANX
PLAN: DSDZPLAN

BIND DATE - TIME: 1999/11/30 05:46:51.840000
BIND DATE - TIME: 1999/12/06 10:48:53.880000

CREATOR: TDDB43
CREATOR: TDDB25

BOUNDBY: TDDB43
BOUNDBY: TDDB25

QUALIFIER: TDDB43
QUALIFIER  TDDB25

PLSIZE:          2944
PLSIZE:          2928

AVGSIZE:         1450
AVGSIZE:         1233
```

Fields

The fields on the Compare History panel vary depending on the panel (DBRMS, Packages, or Plans) from which you accessed it. The value of the displayed fields corresponds to the value of fields of the same name on the accessing panel.

Commands

The following command is available for the Compare History function.

COMMAND	DESCRIPTION	TAKES YOU TO...
CEXPL	Compare EXPLAIN data for two entities and display the results. The current object is compared to the historic object and differences in access path or other EXPLAIN information is presented.	EXPLAIN Compare (KTEPCMPR)

A note about compares

CEXPL adds another layer of information to your compare processing. Typically, when you are on the Plans, Packages, or DBRMS panel, you can issue the IMPACT command (or the J select) to obtain compare history information. The IMPACT command or J select compares such things as precompile options, owners, or qualifiers.

CEXPL is issued from the Compare History panel and compares EXPLAINS.

Considerations for using the CEXPL command in batch

When you issue a CEXPL command in batch, a PRNT command is implied. There is no need to issue a PRNT command following the CEXPL command. If you are using the default format for the EXPLAIN compares, that is, the format you set in Housekeeping, issuing CEXPL causes the comparison to be printed.

If you want to use a format other than the format you have set in Housekeeping, you need to create an override statement as input to your KTECNTL batch job. The override to set up the report format *must* precede issuing CEXPL. This example illustrates the correct coding to override default format 1.

```
//EXBATCH.KTECNTL DD *   (Start of KTECNTL batch program)
EXP_CM_FORMAT=2        (Input to set up EDIFF format)
/*
//EXBATCH.SYSIN  DD *   (Start of SYSIN program)
KA                     (Selects Packages as object type to use)
IMPACT                 (Runs compare history)
PRNT                   (Prints impact results)
CEXPL                  (Compares EXPLAINS and prints results)
END                     (Ends the program)
/*
```

If your default format is format 2, then your override would take the form **EXP_CM_FORMAT=1.**

Costs

Overview

This unit describes the Costs panel.

Background about the Costs panel

The Costs panel (KTEPCOST) lists access path selection information which can affect statement cost.

Formats

Format	Displayed Fields
Format 1	Plan Name, Plan Table Access or Join with Degree greater than 1, Access Type, Sorts, Method, Lock, List, Sequential Prefetch
Format 2	Plan Name, Precompile Timestamp, Explain Timestamp, Statement Cost
Format 3	Plan Name, Maximum Statement Cost, Average Statement Cost, Total Statement Cost

Access

Costs can be accessed through the Primary Menu or the Plans, DBRMs, Packages, or Exceptions panels. The information you see depends on how you enter the panel.

- If Costs are entered from DBRMs, only costs for DBRMs display.
- If Costs are entered from Packages, only costs for packages display.

Panels

This is format 1 of the Costs panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE
                                C O S T S
      Cnds: DO (Menu) GLOBAL (Menu)      Selects: ? (Menu)
-----
S PLAN  -----ACCESS TYPES----- -----SORTS----- ---METHOD--
L ADG  JDG TS  MIS NMIS I1  N MX MI MU SU SJ SO SG SRT MSJ NLJ HBJ LCK LPF SPF
-----
- CANPLAN
  0  0  1  59  1  0  0  0  0  0  0  0  11  0  11  0  0  0  92  40  2
- CANPLNX
  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  6  0  0
- CHGPLAN
  0  0  0  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  7  0  0
- CHGPLANX
  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  0  0
- DSDPLAN
  0  0  0  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  0  0
- DSDPLANX
  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  0  0
- DSDPLANZ
  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  0  0
  
```

This is format 2 of the Costs panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE
                                C O S T S
      Cnds: DO (Menu) GLOBAL (Menu)      Selects: ? (Menu)
-----
SEL PLAN          PRECOMPILE TIMESTAMP          EXPLAIN TIMESTAMP          STMT COST
-----
- CANPLAN          0000/00/00 00:00:00.000000 1999/12/13 15:29:53.680000          34,500.0
- CANPLNX          0000/00/00 00:00:00.000000 1999/12/13 15:29:53.680000           8.8
- CHGPLAN          0000/00/00 00:00:00.000000 1999/12/14 07:18:38.490000           29.0
- CHGPLANX         0000/00/00 00:00:00.000000 1999/12/14 07:18:38.490000           0.0
- DSDPLAN          0000/00/00 00:00:00.000000 1999/12/13 15:29:53.680000           9.1
- DSDPLANX         0000/00/00 00:00:00.000000 1999/12/13 15:29:53.680000           8.8
- DSDPLANZ         0000/00/00 00:00:00.000000 1999/12/14 07:18:38.490000           8.8
- DSDZPLAN         0000/00/00 00:00:00.000000 1999/12/14 07:18:38.490000           9.1
- DSNHYCRD         0000/00/00 00:00:00.000000 1999/12/13 15:29:53.680000          708.4
- DSN8BH31         0000/00/00 00:00:00.000000 1999/12/13 15:29:53.680000           47.0
- DSN8BP31         0000/00/00 00:00:00.000000 1999/12/13 15:29:53.680000           47.0
- DSN8CH0          0000/00/00 00:00:00.000000 1999/12/14 07:18:38.490000         14,298.1
- DSN8IH0          0000/00/00 00:00:00.000000 1999/12/14 09:29:47.900000         14,298.1
- DSN8SC31         0000/00/00 00:00:00.000000 1999/12/14 07:18:38.490000         14,298.1
- DSN8SP31         0000/00/00 00:00:00.000000 1999/12/14 07:18:38.490000         14,298.1
- D23ASEXT         0000/00/00 00:00:00.000000 1999/12/13 15:29:53.680000           8.8
- D23ASRUN         0000/00/00 00:00:00.000000 1999/12/13 15:29:53.680000         34,500.0
- D31ASEXT         0000/00/00 00:00:00.000000 1999/12/13 15:29:53.680000           8.8
  
```

Panels (continued)

This is format 3 of the Costs panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE
                                C O S T S
  Cnds: DO (Menu) GLOBAL (Menu)          Selects: ? (Menu)
-----
SEL  PLAN          MAXIMUM          AVERAGE          TOTAL
     STMT COST      STMT COST      STMT COST      STMT COST
-----
-    CANPLAN        2,218.0        379.0           34,500.0
-    CANPLNX         8.8            8.8             8.8
-    CHGPLAN        10.6           9.7             29.0
-    CHGPLANX        0.0            0.0             0.0
-    DSDPLAN         8.8            4.6             9.1
-    DSDPLANX        8.8            8.8             8.8
-    DSDPLANZ        8.8            8.8             8.8
-    DSDZPLAN        8.8            4.6             9.1
-    DSNHYCRD        654.2          236.1           708.4
-    DSN8BH31        30.1           11.8            47.0
-    DSN8BP31        30.1           11.8            47.0
-    DSN8CH0        11,141.4       3,574.5         14,298.1
-    DSN8IH0        11,141.4       3,574.5         14,298.1
-    DSN8SC31       11,141.4       3,574.5         14,298.1
-    DSN8SP31       11,141.4       3,574.5         14,298.1
-    D23ASEXT         8.8            8.8             8.8
-    D23ASRUN        2,218.0        379.0           34,500.0
-    D31ASEXT         8.8            8.8             8.8

```

Fields and Associated Sorts and Filters

FIELD	FORMAT	DESCRIPTION	SORTS/ FILTERS
ADG (Number of Access Degrees > 1)	1	Number of Access Degrees > 1 Source: PLAN_TABLE.ACCESS_DEGREE	C#ADG
AVERAGE STMT COST	3	Average statement cost. Source: Derived	CACST
DBRM/PACKAGE/ PLAN	1, 2, 3	Name of the DBRM, Package, or Plan. Source: SYSIBM.SYSDBRM.NAME or SYSPACKAGE.NAME	CNAME
EXPLAIN TIMESTAMP	2	The date of EXPLAIN. Source: PLAN_TABLE.TIMESTAMP	CEXDT
HBJ (Hybrid Join)	1	Number of METHOD=4 statements in the package or DBRM. Indicates the join method is Hybrid Join. Source: PLAN_TABLE.METHOD	C#HBJ
I1 (One-Fetch Index Scan)	1	Number of ACESSTYPE='I1' statements in the package or DBRM. Method of accessing new table by one-fetch index scan. Source: PLAN_TABLE.ACESSTYPE	C#I1S
JDG (Number of Join Degrees > 1)	1	Number of Join Degrees > 1 Source: PLAN_TABLE.JOIN_DEGREE	C#JDG
LCK (TSLOCKMODE)	1	Number of Locks used in the package or DBRM. Indicates the lock mode of the table space. # TSLOCKMODE=1X + # TSLOCKMODE =X. Source: PLAN_TABLE.TSLOCKMODE	C#LCK
LPF (List Prefetch)	1	Number of PREFETCH='L' statements in the package or DBRM. Source: PLAN_TABLE.PREFETCH	C#LPF
MAXIMUM STMT COST	3	Maximum statement cost. Source: Derived	CMCST
MI (Multiple Index Intersection)	1	Number of ACESSTYPE='MI' statements in the package or DBRM. Method of accessing new table by an intersection of multiple indexes. Source: PLAN_TABLE.ACESSTYPE	C#MXI
MIS (Matching Index Scan)	1	Number of Matching Index Scan statements in the package or DBRM. ACESSTYPE is an index access and MATCHCOLS is greater than 0 in the PLAN_TABLE. Source: Derived	C#MIS

FIELD	FORMAT	DESCRIPTION	SORTS/ FILTERS
MSJ (Merge Scan Join)	1	Number of METHOD=2 statements in the package or DBRM. Indicates the join method is Merge Scan Join. Source: PLAN_TABLE.METHOD	C#MSJ
MU (Multiple Index Union)	1	Number of ACESSTYPE='MU' statements in the package or DBRM. Method of accessing new table by a union of multiple indexes. Source: PLAN_TABLE.ACESSTYPE	C#MXU
MX (Index Scans on Index)	1	Number of ACESSTYPE='MX' statements in the package or DBRM. Method of accessing new table by an index scan on the index named in ACCESSNAME. Source: PLAN_TABLE.ACESSTYPE	C#MXS
N (Index Scan for IN)	1	Number of ACESSTYPE=N statements in the package or DBRM. Method of accessing new table by index scan when predicate contains IN keyword. Source: PLAN_TABLE.ACESSTYPE	C#NS
(NAME heading) <ul style="list-style-type: none"> ● DBRM ● PACKAGE ● PLAN ● DBRM/PKG (if previous panel was Exceptions) 	1, 2, 3	Variable field describing the type of data displayed in the column below it. Source: Derived	
NLJ (Nested Loop Join)	1	Number of METHOD=1 statements in the package or DBRM. Indicates the join method is Nested Loop Join. Source: PLAN_TABLE.METHOD	C#NLJ
NMIS (Non-Matching Index Scan)	1	Number of Non-Matching Index Scan statements in the package or DBRM. ACESSTYPE is an index access and MATCHCOLS is 0 in the PLAN_TABLE. Source: Derived	C#NMI
PRECOMPILE TIMESTAMP	2	The precompile timestamp of the DBRM or package. If displaying Plan data, this field contains 0s. Source: SYSIBM.SYSDBRM.PRECOMPDATE Source: SYSIBM.SYSDBRM.PRECOMPTIME Source: SYSIBM.SYSPACKAGE.PCTIMESTAMP	CPCDT
SG (Sorts - Group By)	1	Number of Group By Sorts in the package or DBRM. Source: PLAN_TABLE.SORTN_GROUPBY + SORTC_GROUPBY	C#SRG

Costs

FIELD	FORMAT	DESCRIPTION	SORTS/ FILTERS
SJ (Sorts - Join)	1	Number of Join Sorts in the package or DBRM. Source: PLAN_TABLE.SORTN_JOIN + SORTC_JOIN	C#SRJ
SO (Sorts - Order By)	1	Number of Order By Sorts in the package or DBRM. Source: PLAN_TABLE.SORTN_ORDERBY + SORTC_ORDERBY	C#SRO
SPF (Sequential Prefetch)	1	Number of PREFETCH=S statements in the package or DBRM. Source: PLAN_TABLE.PREFETCH	C#SPF
SRT (Sorts - Total)	1	Total number of Sorts in the package or DBRM. Source: Derived	C#SRT
SU (Sorts - Unique)	1	Number of Unique Sorts in the package or DBRM. Source: PLAN_TABLE.SORTN_UNIQ + SORTC_UNIQ	C#SRU
TOTAL STMT COST	2, 3	Total statement cost. Source: Derived	CTCST
TS (Table Space Scan)	1	Number of ACCESTYPE=R statements in the package or DBRM. Access by sequential scan of pages. Source: PLAN_TABLE.ACCESTYPE	C#TSS
VERSION	2	Version identifier for the package. Source: PLAN_TABLE.VERSION	CVER

Selects

Options available will depend on the type of data that is currently being displayed on the panel.

DATA TYPE	SELECT	DESCRIPTION	TAKES YOU TO...
DBRM	D	Display DBRM panel.	DBRMs (KTEPDBRM)
Package	K	Display package panel.	Packages (KTEPKACK)
Plan	P	Display plans panel.	Plans (KTEPPLAN)

Commands

You can customize the display by controlling the type of data. Three commands will be available *only* when the Costs panel is accessed from the Primary or Sessions Menu.

COMMAND	DESCRIPTION
CDBR	Display all DBRMs and their total DB2 statement cost.
CPKG	Display all packages and their total DB2 statement cost.
CPLN	Display all plans and their total DB2 statement cost.

DBRMs

Overview

This unit describes the DBRMS panel.

Background about the DBRMS panel

The DBRMs panel (KTEPDBRM) and its associated information panel (KTEPDBIN) list DBRMs bound into plans in the DB2 subsystem.

Using this panel, you can convert an existing DBRM, including those precompiled prior to DB2 2.3, to a package using the **Z** select or convert all listed DBRMs to packages using the **BINDCNV** command.

Note: DBRMs which were precompiled using a pre-DB2 V1R3 (1.3) precompiler *may* contain statements which !DB/EXPLAIN incorrectly interprets. EXPLAINs of such statements can result in -417 or -418 SQLCODES or an inaccurately reported access path. See “EXPLAIN/SQL Defaults” on page 310 for information on the options you have for avoiding -417 and -418s.

You can specify DMISS=YES to display all of the DBRMs from which a statement was discarded during an extract. The extract discards an SQL statement when the extract cannot process it (for example, a statement which has a statement number of 0 and spans multiple tables in SYSIBM.SYSSTMTS).

Formats

The DBRMs panel is available in five formats. You can also display the DBRM Information panel, which allows you to view *all* data related to DBRMs.

Format	Displayed Fields
Format 1	DBRMs, Status, Plan, Statements, Selects, Deletes, Updates, Inserts, Exclusive Locks, Shared Locks
Format 2	DBRMs, Precompile Timestamp, Library,
Format 3	DBRMs, Statements, Selects, Deletes, Updates, Inserts, Exclusive Locks, Shared Locks, Total Statement Cost
Format 4	DBRMs, EXPLAIN Timestamp, Maximum Cost, Average Cost, Total Cost
Format 5	DBRMs, Selects, Declared Cursors, Deletes, Updates, Inserts, Shared Locks, Exclusive Locks

Access

You can access the DBRMs panel from the Primary Menu or Sessions Menu or the Plans, Libraries, Costs, or Tables panels. Access the DBRM Information panel by using the **I** select or by typing **INFO** on the command line of the DBRMs panel.

Panels

The following illustration shows format 1 of the DBRMS panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 45 OF 172
CMD ==>                               SCROLL ==> PAGE

                                D B R M S

  Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
SEL DBRM      VQCCMDH          LCK LCK
              LUOHXEL PLAN      XCL SHR
-----
-  EXPSQL05  NNNAN B NMVTESTA    8    0    0    4    0  0  0
-  EXPSQL12  NNNAN B NMVTESTA    3    2    0    0    0  0  0
-  EXPSQL13  NNNAN B NMVTESTA    6    0    0    0    0  0  0

```

The following illustration shows format 2 of the DBRMS panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 45 OF 172
CMD ==>                               SCROLL ==> PAGE

                                D B R M S

  Cnds: DO (Menu) GLOBAL (Menu)                Selects& colon. ? (Menu)
-----
SEL DBRM      --- PRECOMPILE ---
              DATE           TIME LIBRARY
-----
-  DSQIPEL   1999/06/12 11:37:44 PP.QMF.V240.DSQDBRM
  VERSION:
-  DSQILD    1999/06/12 11:37:25 PP.QMF.V240.DSQDBRM
  VERSION:
-  DSQIOLST  1999/09/05 08:22:08 PP.QMF.V240.DSQDBRM
  VERSION:

```

Panels (continued)

The following illustration shows format 3 of the DBRMS panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 45 OF 172
CMD ==>                               SCROLL ==> PAGE

                                D B R M S

    Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
SEL DBRM      STMTS   SELECTS DELETES  UPDATES  INSERTS  LCK LCK  TOTAL
-----
-   EXPSQL05      8       0       0       4       0  0  0      62.7
-   EXPSQL12      3       2       0       0       0  0  0      24.3
-   EXPSQL13      6       0       0       0       0  0  0      11.6
    
```

The following illustration shows format 4 of the DBRMS panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 45 OF 172
CMD ==>                               SCROLL ==> PAGE

                                D B R M S

    Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
SEL DBRM      --- EXPLAIN ---   --- STATEMENT COSTS ---
      DATE          TIME          MAXIMUM    AVERAGE    TOTAL
-----
-   EXPSQL05  1999/09/03 15:27:25      27.3      15.7      62.7
-   EXPSQL12  1999/09/03 15:27:25      12.4      12.2      24.3
-   EXPSQL13  1999/09/03 15:27:25      11.6      11.6      11.6
    
```

The following illustration show format 5 of the DBRMS panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                               SCROLL ==> CSR

                                D B R M S

    Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
SEL DBRM      STMTS   SELECTS  DECLARE
      CURSORS DELETES  UPDATES  INSERTS  LOCK  LOCK
      SHR     XCL
-----
-   #CDLABL1      2       1       0       0       0       0       0       0
-   #101NSRT      3       0       0       1       0       1       0       0
-   #101SAVE      5       0       1       0       0       0       0       0
    
```

Panels (continued)

The DBRMs Information panel lets you to view *all* data related to DBRMs.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE
                                D B R M   I N F O R M A T I O N

  Cnds: GLOBAL (Menu)
-----

DBRM: ALTMPEX2          PRECOMPILE DATE/TIME: 2064/01/17 19:37:02.130000
PLAN: D31ASRUN         CONSISTENCY TOKEN   : 0E5C5D9F01F1F040
                       PLAN CREATOR       : TDDB31A

LIBRARY: TDDB31.V230.DBRM
VERSION:

HOST LANGUAGE: B          QUOTE: N          MIXED: N
CHARACTER SET: A         COMMA: N         DEC31:

----- SQL COUNTS -----
STATEMENTS   =      8   DROP           =      0   REVOKE       =      0
ALTER        =      0   EXECUTE        =      0   ROLLBACK    =      0
CALL         =      0   EXPLAIN         =      0   SELECT      =      1
CLOSE        =      0   FETCH          =      0   SET         =      0
COMMIT       =      0   GRANT          =      0   SET CONNECT =      0
CONNECT      =      0   INSERT         =      0   SET DEGREE  =      0
CREATE       =      0   LOCK SHR       =      0   SET HOST    =      0
DECLARE CURSOR =      0   LOCK XCL      =      0   SET PKGSET  =      0
DECLARE STATEMENT =      0   OPEN          =      0   SET RULES   =      0
DECLARE TABLE =      3   PREPARE       =      0   SET SQLID   =      0
DELETE       =      0   RELEASE       =      0   UPDATE     =      1
DESCRIBE     =      0                               WHENEVER    =      3
***** BOTTOM OF LIST *****

```

Fields and Associated Sorts and Filters

Below is an alphabetical listing of fields in all the DBRMs panel formats and the DBRM Information Panel. The letter “I” in the ON FORMAT column indicates the information panel.

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
ALTER	I	The total number of ALTER statements. Source: SYSIBM.SYSSTMT	D#AL
AVG STMT COST	4	Average statement cost. Source: Derived	DACST
CALL	I	Number of CALL statements Source: SYSIBM.SYSSTMT	D#CA
CH (Charset)	1, I	Indicates whether the system CCSID for SBCS data was 290 (katakana) when the program was precompiled: K Yes A No Source: SYSIBM.SYSDBRM.CHARSET	DCHRS
CLOSE	I	The total number of CLOSE statements. Source: SYSIBM.SYSSTMT	D#CL
CO (Comma)	1, I	Decimal point representation for SQL statements in the DBRM: N Period Y Comma Source: SYSIBM.SYSDBRM.COMMA	DCOMM
COMMIT	I	The total number of COMMIT statements. Source: SYSIBM.SYSSTMT	D#CM
CONNECT	I	The total number of CONNECT statements. Source: SYSIBM.SYSSTMT	D#CN
CONTOKEN (Consistency Token)	I	Consistency token for the DBRM. Source: SYSIBM.SYSDBRM.TIMESTAMP	D#CN
CREATE	I	The total number of CREATE statements. Source: SYSIBM.SYSSTMT	D#CR
D#TS	Filter panel	Total number of DECLARE CURSOR and SELECT statements. Source: SYSIBM.SYSSTMT	D#TS
DBRM	All formats	Name of the DBRM. The list is in alphabetic order. Source: SYSIBM.SYSDBRM.NAME	DBRM

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
DE (Dec31)	1, I	Indicates whether DEC31 was in effect when the program was precompiled: blank No Y Yes Source: SYSIBM.SYSDBRM.DEC31	DDC31
DECLARE CURSOR	5, I	The total number of DECLARE CURSOR statements. Source: SYSIBM.SYSSTMT	D#DC
DECLARE STATEMENT	I	The total number of DECLARE STATEMENT statements. Source: SYSIBM.SYSSTMT	D#DM
DECLARE TABLE	I	The total number of DECLARE TABLE statements. Source: SYSIBM.SYSSTMT	D#DT
DELETES	1, 3, 5, I	The number of DELETE statements in DBRMs. Source: SYSIBM.SYSSTMT	D#DL
DESCRIBE	I	The total number of DESCRIBE statements. Source: SYSIBM.SYSSTMT	D#DS
DROP	I	The total number of DROP statements. Source: SYSIBM.SYSSTMT	D#DR
EXECUTE	I	The total number of EXECUTE statements. Source: SYSIBM.SYSSTMT	D#EC
EXPLAIN	I	The total number of EXPLAIN statements. Source: SYSIBM.SYSSTMT	D#EX
EXPLAIN DATE/TIME	4	EXPLAIN date. Source: PLAN_TABLE.TIMESTAMP	DEXDT
FETCH	I	The total number of FETCH statements. Source: SYSIBM.SYSSTMT	D#FT
GRANT	I	The total number of GRANT statements. Source: SYSIBM.SYSSTMT	D#GR
HL (Hostlang)	1, I	The host language used: B Assembler Language C COBOL D C F FORTRAN P PL/I 2 VS COBOL II 3 OO-COBOL 4 C++ Source: SYSIBM.SYSDBRM.HOSTLANG	DHLNG
INSERTS	1, 3, 5, I	The number of INSERT statements in DBRMs. Source: SYSIBM.SYSSTMT	D#IN

DBRMs

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
LCK SHR	1, 3, 5, I	Number of LOCK SHR in DBRMs. Source: SYSIBM.SYSSTMT	D#LS
LCK XCL	1, 3, 5, I	Number of LOCK XCL in DBRMs. Source: SYSIBM.SYSSTMT	D#LX
LIBRARY	2, I	Name of the partitioned dataset of which the DBRM is a member. Source: SYSIBM.SYSDBRM.PDSNAME	DLIB
MAX STMT COST	4	Maximum statement cost. Source: Derived	DMCST
MX (Mixed)	1, I	Indicates if mixed data was in effect when the program was precompiled: N No Y Yes Source: SYSIBM.SYSDBRM.MIXED	DMIXD
OPEN	I	The total number of OPEN statements. Source: SYSIBM.SYSSTMT	D#OP
PLAN CREATOR	I	Authorization ID of the owner of the application plan. Source: SYSIBM.SYSPLAN.CREATOR	
PLAN HEADING (depends on DUPS/NODUPS command)	1, I	If DUPS is specified, then the Plan name is used if the DBRM is contained in one plan. If NODUPS is specified, the number of plans in which DBRM is a member is used. Source: SYSIBM.SYSDBRM.PLNAME	DPLN D#PL
PRECOMPILE DATE/TIME	2, I	The date of precompilation. Source: SYSIBM.SYSDBRM.PRECOMPDATE PRECOMPTIME	DPCDT
PREPARE	I	The total number of PREPARE statements. Source: SYSIBM.SYSSTMT	D#PR
QU (Quote)	1, I	SQL string delimiter for the SQL statements in the DBRM: N Apostrophe Y Quotation mark Source: SYSIBM.SYSDBRM.QUOTE	DQUOT
RELEASE	I	The number of RELEASE SQL statements. Source: SYSIBM.SYSSTMT	D#RE
REVOKE	I	The total number of REVOKE statements. Source: SYSIBM.SYSSTMT	D#RV
ROLLBACK	I	The total number of ROLLBACK statements. Source: SYSIBM.SYSSTMT	D#RL

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
SELECTS	1, 3, 5, I	The number of SELECT statements in DBRMs. Source: SYSIBM.SYSSTMT	D#SE
SET	I	The total number of SET statements. Source: SYSIBM.SYSSTMT	D#ST
SET CONNECT	I	The number of SET CONNECTION SQL statements. Source: SYSIBM.SYSSTMT	D#SC
SET DEGREE	I	The number of SET CURRENT DEGREE SQL statements. Source: SYSIBM.SYSSTMT	D#SD
SET HOST	I	The number of SET host variable SQL statements. Source: SYSIBM.SYSSTMT	D#SH
SET PKGSET	I	The number of SET PACKAGESET SQL statements. Source: SYSIBM.SYSSTMT	D#SP
SET RULES	I	Number of SET CURRENT RULES statements Source: SYSIBM.SYSSTMT	D#SR
SET SQLID	I	The number of SET CURRENT SQLID SQL statements. Source: SYSIBM.SYSSTMT	D#SS
STMTS	1, 3, 5, I	The total number of statements in DBRMs. Source: SYSIBM.SYSSTMT	D#TL D#MISS (filters on statements discarded by the extract)
TOTAL STMT COST	3, 4	Total statement cost. Source: Derived	DTCST
UPDATES	1, 3, 5, I	The number of UPDATE statements in DBRMs. Source: SYSIBM.SYSSTMT	D#UP
VERSION	2, I	Version identifier for the DBRM. Source: SYSIBM.SYSDBRM.VERSION	DVER
VL (Verify)	1	Shows results of DBRM Verification. Possible values include: N DBRM has not been verified. Y DBRM was verified successfully E DBRM verification was unsuccessful T There is a timestamp mismatch Source: Derived	DVRF
WHENEVER	I	The total number of WHENEVER statements. Source: SYSIBM.SYSSTMT	D#WH

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
@	Remote EXPLAIN and gather statistics.	EXPLAIN (KTEPEXPL)
#	Remote EXPLAIN but do not gather statistics.	EXPLAIN (KTEPEXPL)
B	Generate a BIND package statement for the selected DBRM.	BIND Package (KTEPBIKA)
C	Compare the results of the latest EXPLAIN with the results of a BIND EXPLAIN(YES).	EXPLAIN Compare (KTEPCMPR)
E	EXPLAIN statements and gather statistics.	EXPLAIN (KTEPEXPL)
G	Display cost details for the selected DBRM.	Costs (KTEPCOST)
H	Display the EXPLAIN History for the selected DBRM.	EXPLAIN History (KTEPHIST)
I	Display detailed DBRM information.	DBRM Information (KTEPDBIN)
J	Select 2 DBRMs with J and compare DBRM attributes.	Compare History (KTEPJHIS)
L	Display the output from the latest EXPLAIN of selected DBRM.	EXPLAIN (KTEPEXPL)
P	List all plans for the selected DBRM.	Plans (KTEPPLAN)
S	List all the SQL statements for the selected DBRM.	Statements (KTEPSTMT)
T	Display tables for all DB2 tables, views, or aliases referenced by any SQL INSERT, SELECT, UPDATE, DELETE, LOCK, or DECLARE CURSOR statement in any DBRM or package.	Tables (KTEPTABL)
U	EXPLAIN (do not gather statistics).	EXPLAIN (KTEPEXPL)
V	Verify the DBRM.	DBRM Verification (KTEPPVER)
W	Perform Whatif analysis on the selected DBRM.	WHATIF (KTEPWHIF)
X	Display Exceptions that exist for each SQL statement in the selected DBRM.	Exceptions (KTEPXCPT)
Z	Generate BIND conversion statements.	
8	EXPLAIN and display only DBRMs that have not been EXPLAINed—gather catalog statistics.	EXPLAIN (KTEPEXPL)
9	EXPLAIN and display only DBRMs that have not been EXPLAINed—do not gather catalog statistics.	EXPLAIN (KTEPEXPL)

Commands

COMMAND	DESCRIPTION	TAKES YOU TO...
BIND	Generate BIND statements for all active DBRMs.	Overrides (KTEPBIKG)
BINDADD	BIND ACTION(ADD).	Overrides (KTEPBIKG)
BINDCNV	Generate conversion BIND for all DBRMs.	Overrides (KTEPBIKG)
BINDEXP	BIND EXPLAIN(YES).	Overrides (KTEPBIKG)
BINDREP	BIND ACTION(REPLACE).	Overrides (KTEPBIKG)
COMPARE	Perform a BIND COMPARE of each DBRM on the current display according to the options set on the Housekeeping BIND Compare Options Panel KTEPHOBC.	EXPLAIN Compare (KTEPCMPR)
COST	Display statement costs.	Costs (KTEPCOST)
DUPS	Show all DBRMs.	
EXPL	EXPLAIN all DBRMs that have not been EXPLAINed since they were last bound and display latest EXPLAIN for DBRMs that have been previously EXPLAINed.	EXPLAIN (KTEPEXPL)
EXPLA	EXPLAIN all regardless of BIND time.	EXPLAIN (KTEPEXPL)
EXPLAR	Remote EXPLAIN all regardless of BIND time.	EXPLAIN (KTEPEXPL)
EXPLO	EXPLAIN and display only DBRMs that have not been EXPLAINed since they were last bound. Do not gather catalog statistics.	EXPLAIN (KTEPEXPL)
EXPLOR	Remote EXPLAIN and display only DBRMs that have not been EXPLAINed since they were last bound. Do not gather catalog statistics.	EXPLAIN (KTEPEXPL)
EXPLR	Remote EXPLAIN all DBRMs that have not been EXPLAINed since they were last bound and display latest EXPLAIN for DBRMs that have been previously EXPLAINed.	EXPLAIN (KTEPEXPL)
GEXPL	EXPLAIN all DBRMs on the list that have not been EXPLAINed since they were last bound and gather statistics; and display latest EXPLAIN for DBRMs that have been previously EXPLAINed.	EXPLAIN (KTEPEXPL)
GEXPLA	EXPLAIN all DBRMs on the list and gather statistics regardless of BIND time.	EXPLAIN (KTEPEXPL)
GEXPLAR	Remote EXPLAIN all DBRMs on the list and gather statistics regardless of BIND time.	EXPLAIN (KTEPEXPL)
GEXPLO	EXPLAIN and display only DBRMs that have not been EXPLAINed since they were last bound. Gather catalog statistics.	EXPLAIN (KTEPEXPL)
GEXPLOR	Remote EXPLAIN and display only DBRMs that have not been EXPLAINed since they were last bound. Gather catalog statistics.	EXPLAIN (KTEPEXPL)

DBRMs

COMMAND	DESCRIPTION	TAKES YOU TO...
GEXPLR	Remote EXPLAIN all DBRMs on the list that have not been EXPLAINed since they were last bound and gather statistics; and display latest EXPLAIN for DBRMs that have been previously EXPLAINed.	EXPLAIN (KTEPEXPL)
HIST	Display DBRM History.	
IMPACT	Compare each nonhistorical DBRM with its most recent historical counterpart.	Compare History (KTEPJHIS)
INFO	Display DBRM Information.	DBRM Info (KTEPDBIN)
LEHIST	Display latest EXPLAIN History.	EXPLAIN History (KTEPHIST)
LEXPL	Display latest EXPLAIN.	EXPLAIN (KTEPEXPL)
NODUPS	Show unique DBRMs. Reset DUPS.	
NOHIST	Reset HIST.	
XCPT	Display Exceptions.	Exceptions (KTEPXCPT)

A note about compares

Typically, when you are on the Plans, Packages, or DBRMS panel, you can issue the IMPACT command (or the J select) to obtain compare history information. The IMPACT command or J select compares such things as precompile options, owners, or qualifiers.

CEXPL is issued from the Compare History panel and compares EXPLAINS.

Estimator

Overview

This unit describes the Estimator panel.

Background about the Estimator panel

The Estimator panel (KTEPESTM) shows what effect changing certain values in the catalog has on other values.

Estimator is affected by settings you specify on Housekeeping's Panel Formats panel:

- If you specify 0 in the Format # field of the Panel Formats panel, then the Estimator panel inherits its format from the Whatif panel.
 - If you specify 0 in the Initial Command field of the Panel Formats panel, then the Estimator panel inherits the settings for NDX/NONDX from the Whatif panel.
-

Formats

The panel is available in two formats:

Format	Displayed Fields
Format 1	Data collected by RUNSTATS
Format 2	All data

Access

Estimator is invoked using the command ESTIM from Whatif.

Panels

The following illustration shows format 1 of the Estimator panel, the RUNSTATS format.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 14
CMD ==>                                SCROLL ==> PAGE
                                E S T I M A T O R
    Cnds: DO (Menu) GLOBAL (Menu)          Selects: ? (Menu)
                                The fields marked with * can be updated.
-----
TS= DSNDDB06.SYSCOPY          PARTITIONS= 0          LOCKRULE = A
*NACTIVE= 9

_ TBL= SYSIBM.SYSCOPY          LOCATION=
 *RECLN= 1904                  *PCTPAGES= 100          *PCTROWCOMP= 0
 *CARD = 300                   *NPAGES = 9

----- USED INDEXES -----
_ IX= SYSIBM.DSNUCH01          CLUSTERED = N
 *FULLKEY = -1                *NLEVELS= -1          *CLUSTRATIO= 0
 *FIRSTKEY= -1                *NLEAF = -1           *UNIQUE = D
 *KEYSIZE = 0                 *# TABLE ROWS/INDEX KEY= -1
 *INDEXTYPE =

***** BOTTOM OF LIST *****

```

Panels (continued)

Format 2 of the Estimator panel shows all data.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 31
CMD ==>                                SCROLL ==> PAGE
                                E S T I M A T O R
  Cnds: DO (Menu) GLOBAL (Menu)          Selects: ? (Menu)
                                The fields marked with * can be updated.
-----
TS= DSNDB06.SYSCOPY      PARTITIONS= 0  LOCKRULE = A
*NACTIVE= 9              OBID= 7          CLOSERULE= N  CREATOR = SYSIBM
NTABLES= 1              DBID= 6          IMPLICIT = N  CREATEBY= SYSIBM
SPACE = 0               PSID= 16         STATUS  = A   BPOOL= BP0
PGSIZE = 4              SEGSIZE= 0      ERASERULE= N  DSETPASS=
LOCKMAX= 0              STATSTS= 0000/00/00 00:00:00.000000

- TBL= SYSIBM.SYSCOPY      LOCATION=
 *RECLEN= 1904           TBCREATR=                TYPE = T
 *CARD = 300             TBNAME =                 STATUS=
 *NPAGES= 9              CREATEBY= SYSIBM         CKFLAG=
 *PCTPAGES = 100         VALPROC =                AUDIT =
 KEYOBID = 0             EDPROC =                 CHILD = 0
 OBID = 46               CKRID =                   PARENT= 0
 COLCOUNT = 16          RBA1 = 000000000000      DATAC =
 KEYCOLUMNS= 0          RBA2 = 000000000000
 *PCTROWCOMP= 0          CREATETS= 1998/04/01 00:00:00.000000
 CLUSTERTYPE=            ALERTS = 1998/04/01 00:00:00.000000
 CHECKS= 0               STATSTS = 0000/00/00 00:00:00.000000

----- USED INDEXES -----
- IX= SYSIBM.DSNUCH01     *NLEVELS= -1           *CLUSTRATIO= 0
 *FULLKEY = -1           *NLEAF = -1            CLUSTERED = N
 *FIRSTKEY= -1           COLCOUNT = 3          CLUSTERING= Y
 SPACE = 0               ERASERULE= N           BPOOL = BP0
 PGSIZE = 4096           CLOSERULE= N           DSETPASS =
 OBID = 91               *UNIQUE = D            INDEXSPACE= DSNUCH01
 ISOBID = 114            *# TABLE ROWS/INDEX KEY= -1
 *KEYSIZE = 0            STATSTS = 0000/00/00 00:00:00.000000
 *INDEXTYPE =

***** BOTTOM OF LIST *****

```

Panels (continued)

You can control the amount of data retrieved from the DB2 catalog with the GSTATS (Gather Statistics) command. When this command is invoked, the Statistics Gathering panel is displayed. This panel also allows you to modify the location of the server. If not specified the default is "local."

```

----- DB/EXPLAIN(V235)  DB2=DB2  ----- LINE 1 OF 20
Cmd ==>

          S T A T I S T I C S   G A T H E R I N G

Enter the server from which you wish to retrieve catalog statistics.
If no value is entered the current server will be set to local.

Server: TS
Amount of data to gather:

  1. - SYSTABLESPACE, SYSTABLES, SYSINDEXES
  2. - Data specified in 1 plus
      SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS
  3. - Data specified in 2 plus
      SYSKEYS
  4. - Data specified in 2 plus
      SYSTABLEPART, SYSTABSTATS, SYSINDEXPART, SYSINDEXSTATS
  5. - Data specified in 3 plus
      SYSTABLEPART, SYSTABSTATS, SYSINDEXPART, SYSINDEXSTATS

ENTER to process request   END to abort request

```

If you are using DB2 Version 2.3 or a later version and invoke the UPDT command, the Statistics Update panel is presented to permit you to enter the location of the server.

```

          S T A T I S T I C S   U P D A T E

Please enter the following information:

SERVER ==>

```

Fields and Associated Sorts and Filters

The fields marked with an asterisk can be updated.

FIELD	ON FORMAT	DESCRIPTION
ALERTB (TBL)	2	Time when the latest ALTER TABLE statement was applied. Source: SYSIBM.SYSTABLES.ALTEREDTS
AMOUNT OF DATA TO GATHER	Statistics Gathering (KTEPSSSG)	Type of data to retrieve from catalog: 1. SYSTABLESPACE, SYSTABLES, SYSINDEXES 2. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, and SYSCOLDISTSTATS 3. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS, and SYSKEYS 4. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS, SYSTABLEPART, SYSTABSTATS, SYSINDEXPART, and SYSINDEXSTATS 5. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS, SYSKEYS, SYSTABLEPART, SYSTABSTATS, SYSINDEXPART, and SYSINDEXSTATS
AUDIT (TBL)	2	Value of the audit option: A AUDIT ALL C AUDIT CHANGE blank AUDIT NONE, or the row describes a view or alias Source: SYSIBM.SYSTABLES.AUDITING
BPOOL (IX)	2	Name of the buffer pool used for index. Source: SYSIBM.SYSINDEXES.BPOOL
BPOOL (TS)	2	Name of the buffer pool used for the table space. Source: SYSIBM.SYSTABLESPACE.BPOOL
CARD (IXP)	1, 2	Number of rows referred to by the index or partition. Source: SYSIBM.SYSINDEXPART.CARD
CARD (TBL) *	1, 2	Number of rows in the table. You can update this field. Source: SYSIBM.SYSTABLES.CARD
CARD (TSTP)	1, 2	Number of rows in the table space or partition. Source: SYSIBM.SYSTABLEPART.CARD
CARDP (TSTP) *	1, 2	Total number of rows in the partition. You can update this field. Source: SYSIBM.SYSTABSTATS.CARD

FIELD	ON FORMAT	DESCRIPTION
CKFLAG (TBL)	2	<p>Check for referential constraint violations.</p> <p>C There are rows in the table that can violate referential constraints.</p> <p>blank The table contains no rows that violate referential constraints, or the row describes a view or alias.</p> <p>Source: SYSIBM.SYSTABLES.CHECKFLAG</p>
CHECKFLAG (TSTP)	2	<p>Check for referential constraint violations.</p> <p>C The table space partition is in CHECK PENDING mode and there are rows that can violate referential constraints.</p> <p>blank The table contains no rows that violate referential constraints, or the table space is not partitioned.</p> <p>Source: SYSIBM.SYSTABLEPART.CHECKFLAG</p>
CHECKS (TBL)	2	<p>Number of check constraints defined on a table. The value in this field is 0 if there are no constraints, or if the row describes a view or alias.</p> <p>Source: SYSIBM.SYSTABLES.CHECKS</p>
CHILD (TBL)	2	<p>Number of relationships in which the table is a parent; 0 means the row describes a view or alias.</p> <p>Source: SYSIBM.SYSTABLES.CHILDREN</p>
CKRID (TBL)	2	<p>RID RID of the first row of the table that can violate referential constraints.</p> <p>blank Table is not in a check pending state.</p> <p>Source: SYSIBM.SYSTABLES.CHECKRID</p>
CKRID (TSTP)	2	<p>RID RID of the first row of the table that can violate referential constraints.</p> <p>blank Table or partition is not in a check pending state or the table space is not partitioned.</p> <p>Source: SYSIBM.SYSTABLEPART.CHECKRID</p>
CLOSERULE (IX)	2	<p>Indicates whether the datasets are candidates for being closed when the limit on the number of open datasets is reached:</p> <p>N No Y Yes</p> <p>Source: SYSIBM.SYSINDEXES.CLOSERULE</p>

FIELD	ON FORMAT	DESCRIPTION
CLOSERULE (TS)	2	Indicates whether the datasets are candidates for being closed when the limit on the number of open datasets is reached: Y Yes N No Source: SYSIBM.SYSTABLESPACE.CLOSERULE
CLUSTERED (IX)	1, 2	Indicates whether the table is actually clustered by the index: N No: 95% or fewer of the rows are in clustering order, or statistics were not gathered Y Yes: More than 95% of the rows are in clustering order Source: SYSIBM.SYSINDEXES.CLUSTERED
CLUSTERING (IX)	2	Indicates whether CLUSTER was specified when the index was created: N No Y Yes Source: SYSIBM.SYSINDEXES.CLUSTERING
CLUSTERTYPE (TBL)	2	Whether the table can be dropped (that is, whether the table is defined with RESTRICT ON DROP). blank The table can be dropped Y The table cannot be dropped and any table space or database containing this table also cannot be dropped. Source: SYSIBM.SYSTABLES.CLUSTERTYPE
CLUSTRATIO (IX) *	1, 2	Percentage of rows that are in clustering order. You can update this field. Source: SYSIBM.SYSINDEXES.CLUSTERRATIO
CLUSTRATIO (IXP) *	1, 2	For the index partition, percentage of rows that are in clustering order. You can update this field. Source: SYSIBM.SYSINDEXSTATS.CLUSTERRATIO
COLCOUNT (IX)	2	Number of columns in the key. Source: SYSIBM.SYSINDEXES.COLCOUNT
COLCOUNT (TBL)	2	Number of columns in the table or view. Source: SYSIBM.SYSTABLES.COLCOUNT

FIELD	ON FORMAT	DESCRIPTION
COMPRESS (TSTP)	2	For a table space partition or nonpartitioned table space, indicates whether the COMPRESS attribute is YES. Values can be: Y Compression is defined. blank Compression is not defined. Source: SYSIBM.SYSTABLEPART.COMPRESS
CREATEBY (IX)	2	Primary authorization ID of the user who created the index. Source: SYSIBM.SYSINDEXES.CREATEDBY
CREATEBY (TBL)	2	Primary authorization ID of the user who created the table, view, or alias. Source: SYSIBM.SYSTABLES.CREATEDBY
CREATEBY (TS)	2	Primary authorization ID of the user who created the table space. Source: SYSIBM.SYSTABLESPACE.CREATEDBY
CREATETS (TBL)	2	Time when the CREATE statement was executed for the table, view, or alias. Source: SYSIBM.SYSTABLES.CREATEDTS
CREATOR (TS)	1, 2	Authorization ID of the owner of the table space. Source: SYSIBM.SYSTABLESPACE.CREATOR
DATA (TBL)	2	Indicates the value of the DATA CAPTURE option for a table. Y Data capture is defined for the table. blank Data capture is not defined. Source: SYSIBM.SYSTABLES.DATACAPTURE
DBID (TS)	2	Internal identifier of the database which contains the table space. Source: SYSIBM.SYSTABLESPACE.DBID
DSETPASS (IX)	2	Password for the datasets of the index. Source: SYSIBM.SYSINDEXES.DSETPASS
DSETPASS (TS)	2	Password for the datasets of the table space. Source: SYSIBM.SYSTABLESPACE.DSETPASS
EDPROC (TBL)	2	Name of the edit procedure. Source: SYSIBM.SYSTABLES.EDPROC
ERASERULE (IX)	2	Whether the datasets are to be erased when dropped (not applicable to partitioned indexes): N No Y Yes Source: SYSIBM.SYSINDEXES.ERASERULE

FIELD	ON FORMAT	DESCRIPTION
ERASERULE (TS)	2	Whether the datasets are to be erased when dropped (not applicable for partitioned table space): Y Erase N No Erase Source: SYSIBM.SYSTABLESPACE.ERASERULE
FARINDREF (TSTP)	1, 2	Number of rows that have been relocated far from their original page. Source: SYSIBM.SYSTABLEPART.FARINDREF
FAROFFPOS (IXP)	1, 2	Number of referred to rows that are far from optimal position as the result of an insert into a full page. Source: SYSIBM.SYSINDEXPART.FAROFFPOS
FIRSTKEY (IX) *	1, 2	Number of distinct values of the first key column. You can update this field. Source: SYSIBM.SYSINDEXES.FIRSTKEYCARD
FIRSTKEY (IXP) *	1, 2	Number of distinct values of the first key column in the index partition. You can update this field. Source: SYSIBM.SYSINDEXSTATS.FIRSTKEYCARD
FREEPAGE (TSTP) *	1, 2	Number of pages loaded before a page is left as free space. You can update this field. Source: SYSIBM.SYSTABLEPART.FREEPAGE
FREEPAGE (IXP) *	1, 2	Number of pages loaded before a page is left as free space. You can update this field. Source: SYSIBM.SYSINDEXPART.PERCACTIVE SYSIBM.SYSINDEXPART.FREEPAGE
FULLKEY (IX) *	1, 2	Number of distinct values of all of the key columns. You can update this field. Source: SYSIBM.SYSINDEXES.FULLKEYCARD
FULLKEY (IXP) *	1, 2	Number of distinct values of the key column in the index partition. You can update this field. Source: SYSIBM.SYSINDEXSTATS.FULLKEYCARD
GBPCACHE (IXP)	2	The group buffer pool cache option for the index or index space. A Both changed and unchanged pages are cached in the group buffer pool blank Only changed pages are cached in the group buffer pool, or the DB2 subsystem is not at least Version 4. Source: SYSIBM.SYSINDEXPART.GBPCACHE

FIELD	ON FORMAT	DESCRIPTION
GBPCACHE (TSTP)	2	The group buffer pool cache option for the table or table space. A Both changed and unchanged pages are cached in the group buffer pool blank Only changed pages are cached in the group buffer pool, or the DB2 subsystem is not at least Version 4. Source: SYSIBM.SYSTABLEPART.GBPCACHE
IMPLICIT (TS)	2	Whether the table space was created implicitly: Y Yes N No Source: SYSIBM.SYSTABLESPACE.IMPLICIT
INDEXSPACE (IX)	2	Name of the index space. Source: SYSIBM.SYSINDEXES.INDEXSPACE
INDEXTYPE (IX)	1, 2	The type of the index blank Index is type 1 2 Index is type 2 Source: SYSIBM.SYSINDEXES.INDEXTYPE
ISOBID (IX)	2	Internal identifier of the set descriptor for the index page. Source: SYSIBM.SYSINDEXES.ISOBID
IX	1, 2	Index name. Source: SYSIBM.SYSINDEXES.CREATOR Source: SYSIBM.SYSINDEXES.NAME
IXCREATOR (TSTP)	2	Authorization ID of the owner of the partitioned index. Source: SYSIBM.SYSTABLEPART.IXCREATOR
IXNAME (TSTP)	2	Name of the partitioned index. Source: SYSIBM.SYSTABLEPART.IXNAME
IXP	1, 2	Index name. Source: SYSIBM.SYSINDEXPART.CREATOR Source: SYSIBM.SYSINDEXPART.IXNAME
KEYCOLUMNS (TBL)	2	Number of columns in the table's primary key. Source: SYSIBM.SYSTABLES.KEYCOLUMNS
KEYCNT (IXP) *	1, 2	Total number of rows in the partition. The field is updateable. Source: SYSIBM.SYSINDEXSTATS.KEYCOUNT

FIELD	ON FORMAT	DESCRIPTION
KEYOBID (TBL)	2	Internal DB2 identifier of the index that enforces uniqueness of the table's primary key. Source: SYSIBM.SYSTABLES.KEYOBID
KEYSIZE (IX)	1, 2	Length of keys. Source: Derived
LEAFDIST (IXP)	1, 2	100 times the average number of pages between successive leaf pages of the index. Source: SYSIBM.SYSINDEXPART.LEAFDIST
LOCATION (TBL)	1, 2	Location name of the table for an alias defined on a remote object. Source: SYSIBM.SYSTABLES.LOCATION
LOCKMAX (TS)	2	Maximum number of locks per user to acquire for the table or table space before escalating to the next locking level. Source: SYSIBM.SYSTABLESPACE.LOCKMAX
LOCKRULE (TS)	2	Lock size of the table space: A Any P Page S Table space T Table Source: SYSIBM.SYSTABLESPACE.LOCKRULE
NACTIVE (TS) *	1, 2	Number of active pages in the table space. You can update this field. Source: SYSIBM.SYSTABLESPACE.NACTIVE
NACTIVE (TSTP) *	1, 2	Number of active pages in the table space partition. You can update this field. Source: SYSIBM.SYSTABSTATS.NACTIVE
NEARINDREF (TSTP)	1, 2	Number of rows that have been relocated near their original page. Source: SYSIBM.SYSTABLEPART.NEARINDREF
NEAROFFPOS (IXP)	1, 2	Number of referred to rows near, but not at optimal position as the result of an insert into a full page. Source: SYSIBM.SYSINDEXPART.NEAROFFPOS
NLEAF (IX) *	1, 2	Number of active leaf pages in the index. You can update this field. Source: SYSIBM.SYSINDEXES.NLEAF
NLEAF (IXP) *	1, 2	Number of active leaf pages in the index partition. You can update this field. Source: SYSIBM.SYSINDEXSTATS.NLEAF
NLEVELS (IX) *	1, 2	Number of levels in the index tree. You can update this field. Source: SYSIBM.SYSINDEXES.NLEVELS

FIELD	ON FORMAT	DESCRIPTION
NLEVELS (IXP) *	1, 2	Number of levels in the partition index tree. You can update this field. Source: SYSIBM.SYSINDEXSTATS.NLEVELS
NPAGES (TBL) *	1, 2	Total number of pages on which rows of the table appear. You can update this field. Source: SYSIBM.SYSTABLES.NPAGES
NPAGES (TSTP) *	1, 2	Total number of pages on which rows of the partition appear. You can update this field. Source: SYSIBM.SYSTABSTATS.NPAGES
NTABLES (TS)	2	Number of tables defined in the table space. Source: SYSIBM.SYSTABLESPACE.NTABLES
OBID (IX)	2	Internal identifier of the index fan set descriptor. Source: SYSIBM.SYSINDEXES.OBID
OBID (TBL)	2	Internal identifier of the table. Source: SYSIBM.SYSTABLES.OBID
OBID (TS)	2	Internal identifier of the table space file descriptor. Source: SYSIBM.SYSTABLESPACE.OBID
PAGESAVE (TSTP)	2	Percentage of pages saved in a table space or partition as a result of using data compression. Source: SYSIBM.SYSTABLEPART.OBID
PARNT (TBL)	2	Number of relationships in which the table is a dependent; 0 means the row describes a view or alias. Source: SYSIBM.SYSTABLES.PARENTS
PARTITION (IXP)	1, 2	Partition number; 0 if index is not partitioned. Source: SYSIBM.SYSINDEXPART.PARTITION
PARTITION (TSTP)	1, 2	Partition number; 0 if table space is not partitioned. Source: SYSIBM.SYSTABLEPART.PARTITION
PARTITIONS (TS)	2	Number of partitions of the table space; 0 if the table space is not partitioned. Source: SYSIBM.SYSTABLESPACE.PARTITIONS
PCTFREE (IXP) *	1, 2	Percentage of each subpage or nonleaf page that is left as free space. You can update this field. Source: SYSIBM.SYSINDEXPART.PCTFREE
PCTFREE (TSTP) *	1, 2	Percentage of each page left as free space. You can update this field. Source: SYSIBM.SYSTABLEPART.PCTFREE
PCTPAGES (TBL) *	1, 2	Percentage of active table space pages that contain rows of the table. You can update this field. Source: SYSIBM.SYSTABLES.PCTPAGES

FIELD	ON FORMAT	DESCRIPTION
PCTPAGES (TSTP) *	1, 2	Percentage of total active pages in the partition that contain rows of the table. You can update this field. Source: SYSIBM.SYSTABSTATS.PCTPAGES
PCTROWCOMP (TBL) *	1, 2	Percentage of rows compressed within the total number of active rows in the table. You can update this field. Source: SYSIBM.SYSTABLES.PCTROWCOMP
PCTROWCOMP (TSTP) *	1, 2	Percentage of rows compressed within the total number of active rows in the partition. You can update this field. Source: SYSIBM.SYSTABSTATS.PCTROWCOMP
PERCACT (TSTP)	1, 2	Percentage of space occupied by rows of data from active tables. Source: SYSIBM.SYSTABLEPART.PERCACTIVE
PERCDROP (TSTP)	1, 2	Percentage of space occupied by rows of dropped tables; 0 for segmented table spaces. Source: SYSIBM.SYSTABLEPART.PERCDROP
PGSIZE (IX)	2	Size of subpages in the index. Source: SYSIBM.SYSINDEXES.PGSIZE
PGSIZE (TS)	2	Size, in kilobytes, of pages in the table space. Source: SYSIBM.SYSTABLESPACE.PGSIZE
PQTY (IXP)	2	Primary space allocation in units of 4K storage blocks; 0 if storage group is not used. Source: SYSIBM.SYSINDEXPART.PQTY
PQTY (TSTP)	2	Primary space allocation in units of 4K storage blocks; 0 if a storage group is not used. Source: SYSIBM.SYSTABLEPART.PQTY
PSID (TS)	2	Internal identifier of the set descriptor for the table space page. Source: SYSIBM.SYSTABLESPACE.PSID
RBA1 (TBL)	2	Log RBA when the table was created. Source: SYSIBM.SYSTABLES.RBA1
RBA2 (TBL)	2	Log RBA when the table was last altered. If the table has not been altered RBA1=RBA2. Source: SYSIBM.SYSTABLES.RBA2
RECLEN (TBL) *	1, 2	Maximum length of any record in the table. You can update this field. Source: SYSIBM.SYSTABLES.RECLENGTH
SERVER	Statistics Gathering (KTEPSSSG) Statistics Update (KTE3SSUP)	Location. Only installations running DB2 Version 2.3 or a later version will be able to designate the location of the server.

FIELD	ON FORMAT	DESCRIPTION
SEGSIZE (TS)	2	Number of pages in each segment of a segmented table space. Source: SYSIBM.SYSTABLESPACE.SEGSIZE
SPACE (IX)	2	Number of kilobytes of DASD storage allocated to the index, as determined by the last execution of STOSPACE utility. Source: SYSIBM.SYSINDEXES.SPACE
SPACE (IXP)	2	Number of kilobytes of DASD storage allocated to the index partition as determined by the last execution of STOSPACE utility. Source: SYSIBM.SYSINDEXPART.SPACE
SPACE (TS)	2	Number of kilobytes of DASD storage allocated to the table space as determined by the last execution of the STOSPACE utility. Source: SYSIBM.SYSTABLESPACE.SPACE
SQTY (IXP)	2	Secondary space allocation in units of 4K storage blocks; 0 if storage group is not used. Source: SYSIBM.SYSINDEXPART.SQTY
SQTY (TSTP)	2	Secondary space allocation in units of 4K storage blocks; 0 if a storage group is not used. Source: SYSIBM.SYSTABLEPART.SQTY
STATSTS (IX)	2	This field displays the timestamp value from the catalog except that when UPDT or OUT are specified, the catalog timestamp field is set to the current timestamp to indicate when the change was applied. Source: SYSIBM.SYSINDEXES.STATSTIME
STATSTS (IXP)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSINDEXPART.STATSTIME
STATSTS (TBL)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSTABLES.STATSTIME
STATSTS (TS)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSTABLESPACE.STATSTIME
STATSTS (TSTP)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSTABLEPART.STATSTIME
STATSTSP (IXP)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSINDEXSTATS.STATSTIME
STATSTSP (TSTP)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSTABSTATS.STATSTIME

FIELD	ON FORMAT	DESCRIPTION
STATUS (TS)	2	Availability status of the table space: A Available C Incomplete because no partitioned index has been created P Check Pending S Check Pending with the scope less than the entire table space T Incomplete because no table has been created Source: SYSIBM.SYSTABLESPACE.STATUS
STATUS (TBL)	2	Status of the table definition: I The table's definition is incomplete because it lacks a primary index X The table has a primary index blank Table has no primary key, or is a catalog table, or the row describes a view or alias Source: SYSIBM.SYSTABLES.STATUS
STORNAME (IXP)	2	Name of storage group or ICF catalog used for space allocation. Source: SYSIBM.SYSINDEXPART.STORNAME
STORNAME (TSTP)	2	Name of storage group used for allocation; blank if STORTYPE = E. Source: SYSIBM.SYSTABLEPART.STORNAME
STORTYPE (IXP)	2	Type of storage allocation: E Explicit storage type, and STORNAME names an ICF catalog I Implicit storage type, and STORNAME names a storage group Source: SYSIBM.SYSINDEXPART.STORTYPE
STORTYPE (TSTP)	2	Type of storage allocation: E Explicit (storage group is not used) I Implicit (storage group used) Source: SYSIBM.SYSTABLEPART.STORTYPE
TABLE ROWS/INDEXES *	1, 2	Number of nonunique index entries per key. You can update this field. Source: Derived
TBCREATR (TBL)	2	For an alias, the authorization ID of the owner of the referred table or view; blank otherwise. Source: SYSIBM.SYSTABLES.TBCREATOR
TBL	1, 2	Name of the table. Source: SYSIBM.SYSTABLES.CREATOR Source: SYSIBM.SYSTABLES.NAME

FIELD	ON FORMAT	DESCRIPTION
TBNAME (TBL)	2	For an alias, the name of the referred table or view; blank otherwise. Source: SYSIBM.SYSTABLES.TBNAME
TS	1, 2	Name of the table space. Source: SYSIBM.SYSTABLESPACE.DBNAME SYSIBM.SYSTABLESPACE.NAME
TSTP	1, 2	Name of the table space. Source: SYSIBM.SYSTABLEPART.DBNAME Source: SYSIBM.SYSTABLEPART.TSNAME
TYPE	2	Type of object: A Alias T Table V View Source: SYSIBM.SYSTABLES.TYPE
UNIQUE *	1, 2	Whether the index is unique: D No (Duplicates are allowed) U Yes (Unique, but not primary) P Primary key (Unique) You can update this field. Source: SYSIBM.SYSINDEXES.UNIQUERULE
VALPROC (TBL)	2	Name of the validation procedure; blank if the row describes a view, alias, or a table without a validation procedure. Source: SYSIBM.SYSTABLES.VALPROC
VCATNAME (IXP)	2	Name of ICF catalog used for space allocation. Source: SYSIBM.SYSINDEXPART.VCATNAME
VCATNAME (TSTP)	3	Name of ICF catalog used for space allocation. Source: SYSIBM.SYSTABLEPART.VCATNAME

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
C	Display/Update Table columns.	Table Columns (KTEPTCOL)
D	Drop the selected index. Available for IX= rows.	
K	Display Index Keys.	Index Keys (KTEPCKEY)
N	Creates a new index having the DEFER option, unless you specifically indicate that you do not want it created with the DEFER option. When you exit from the Whatif panel, you will be given an opportunity to drop any indexes created using the N select. Available for TBL= rows and assists you in testing the effect of adding new indexes to tables.	

Commands

COMMAND	DESCRIPTION	TAKES YOU TO...
CALC	Calculate statistics. When you issue a CALC, any fields affected by the results of the command change color on your display. Fields whose color had been white are now yellow. Fields whose color had been blue are now green.	
CHANGE	Change all of the specified values to the new value. Can be abbreviated as C or CHA. See "Format of the Change command" later in this unit for expanded information about the CHANGE command.	
FIND	Find a specific character string on the display. Can be abbreviated as F. See "Format of the FIND command" later in this unit for expanded information about the FIND command.	
GSTATS	Gather statistics from the catalog and refresh the Estimator display.	Statistics Gathering (KTEPSSSG)
LOCATE	Locate a specific value, or a specific value for a specific object type, in one of the fields on the display; or locate data changed by the last command (for example, CALC or UNIFORM) you issued or data you have modified. Can be abbreviated as L or LOC. See "Format of the LOCATE command" later in this unit for expanded information about the LOCATE command.	

COMMAND	DESCRIPTION	TAKES YOU TO...
NDXS	Display all used and unused indexes.	
NEWSET	Establish a new statistics set. NEWSET does not affect column or column distribution statistics.	
NEWSETALL	Establish a new statistics set, including column and column distribution statistics.	
NONDXS	Reset used indexes.	
NOSTAT	Set statistics to RUNSTATS, not to run value. NOSTAT does not affect column or column distribution statistics. RUNSTATS can be either 0, blank, or -1.	
NOSTATALL	Set statistics, including column and column distribution statistics, to RUNSTATS, not to run value. RUNSTATS can be either 0, blank, or -1.	
OUT	Generate a REXX EXEC to update catalog statistics or create SQL statements to update catalog statistics depending on the value specified for "OUT statistics format" on housekeeping panel Miscellaneous Defaults (KTEPHOMI).	Output Options (KTEPOUTP)
RESET	Reset statistics values to the last statistics set. RESET does not affect column or column distribution statistics. Note: A statistics set is established when you enter the Estimator panel and when you explicitly enter the NEWSET* command.	
RESETALL	Reset statistics, including column and column distribution statistics, to the last statistics set. Note: A statistics set is established when you enter the Estimator panel and when you explicitly enter the NEWSET* command.	
RFIND	Reexecute the last FIND command. Can be abbreviated as RF.	
RLOCATE	Reexecute the last LOCATE command. Can be abbreviated as RL or RLOC.	
UNIFORM	Set partitioned statistics to uniform distribution. For example, if the value for CARD for tables is 90000 and there are 10 partitions, then set each table partition CARD field to 9000.	
UPDT	Update the local catalog with new statistics.	Statistics Update (KTE3SSUP)
UPDTL	Update the local catalog with new statistics.	Statistics Update (KTE3SSUP)
UPDTR	Update the remote catalog with new statistics.	Statistics Update (KTE3SSUP)

Format of the Change command

The Change command (CHANGE) can be abbreviated as CHA or C. The format for this command is

CHANGE [field_type] field_name operator value [%]

This table provides information about the parameters of the CHANGE command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
<i>field_type</i>	Can be TS, TSTP, TBL, IX, or IXP. <i>field_type</i> is optional. If it is omitted, all fields having the specified field name are changed. If it is included, only those fields of the type specified and having the specified field name are changed.
<i>field_name</i> (required)	Name of the field to be changed
operator (required)	One of the following can be used in the operator field: = (equals) + (plus) - (minus)
value (required)	Value to which the specified fields are set
%	The % (percent) sign can be used with the + (plus) and - (minus) operators to indicate that the value represents a percentage by which the changed field is to be incremented or decremented.

Valid field types for the CHANGE command

Refer to the table for the fields that can be affected by the CHANGE command. A more complete list showing alternate field names (where applicable) for the field names in this table can be found in the online help for this panel.

Field Type	Field Name
TS	NACTIVE
TSTP	CARD NACTIVE NPAGES PCTPAGES PCTROWCOMP PCTFREE FREEPAGE
TBL	RECLEN CARD NPAGES PCTPAGES PCTROWCOMP
IX	FULLKEY FIRSTKEY KEYSIZE INDEXTYPE NLEVELS NLEAF UNIQUE CLUSTER ROWS
IXP	FULLKEY FIRSTKEY KEYCNT NLEVELS NLEAF CLUSTER FREEPAGE PCTFREE

Format of the FIND command

The FIND command can be abbreviated as **F**. The format of the FIND command is as follows:

FIND *string* [FIRST|LAST|NEXT|PREV] [ASIS]

This table provides information about the parameters of the FIND command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
<i>string</i> (required)	<p>One of:</p> <ul style="list-style-type: none"> A quoted or unquoted string that is to be found; can take the form: <ul style="list-style-type: none"> dirt 'dirt road' "dirt road" "Mary 's road" * (asterisk)—meaning find an occurrence of the last value entered for <i>string</i>.
FIRST	Find the first occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
LAST	Find the last occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
PREV	Find the previous occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
NEXT	Find the next occurrence of the string (the default) on the display. Ignore the case of any characters in the string when performing the FIND.

Format of the FIND command (continued)

Parameter	Meaning
ASIS	Can be included with any of the above parameters and indicates that the string is to be found as entered; that is, the case of the characters in the string should match the case of the characters in the 'found' string.

Format of the LOCATE command

The LOCATE command can be abbreviated as **L** or **LOC**. The format of the LOCATE command is as follows:

LOCATE [*field_type*] *field_name* operator *value* [ASIS]

or

LOCATE CHANGED

or

LOCATE MODIFIED

CHANGED can be abbreviated as CHA. MODIFIED can be abbreviated as MOD.

This table provides information about the parameters of the LOCATE command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
<i>field_type</i>	Can be TS, TSTP, TBL, IX, or IXP. <i>field type</i> is optional. If specified, it designates the types of field in which !DB/EXPLAIN is to locate the designated value.
<i>field_name</i> (required)	Name of the field in which the specified value is to be located

Format of the LOCATE command (continued)

Parameter	Meaning
operator (required)	One of the following can be used in the operator field: <ul style="list-style-type: none"> = (equals) > (greater than) < (less than) >= (greater than or equal to) <= (less than or equal to) <> (not equal to) ≠ (not equal to)
<i>value</i> (required)	A quoted or unquoted value that is to be found; can take the form: <ul style="list-style-type: none"> dirt 'dirt road' "dirt road" "Mary 's road" If the field in which a value is to be located is numeric, the format of <i>value</i> on the LOCATE command <i>must</i> match the format of the display field. Can take the form: <ul style="list-style-type: none"> 999 9,999 or 9.999 1999/09/01 (will not match a value entered as 09/01/1999)
ASIS	Can be included with any of the above parameters and indicates that a character string is to be found as entered; that is, the case of the characters in the string should match the case of the characters in the 'found' string. (ASIS is only valid for character data.)
CHANGED	Locates a value changed as the result of the last-issued command, for example, a CALC or UNIFORM command
MODIFIED	Locates a value changed by a user modification or a CHANGE command since the last statistics were gathered

Valid field types for the LOCATE command

Refer to the table for the fields than can be affected by the LOCATE command. A more complete list showing alternate field names (where applicable) for the field names in this table can be found in the online help for this panel.

Field Type	Field Name
TS	BPOOL CLOSERULE CREATEBY CREATOR DBID DBNAME DSETPASS ERASERULE IMPLICIT LOCKMAX LOCKRULE NACTIVE NAME NTABLES OBID PARTITIONS PGSIZE PSID SEGSIZE SPACE STATSTS STATUS TSNAME

Valid field types for the LOCATE command (continued)

Field Type	Field Name
TSTP	CARD CARDP CHECKFLAG CKRID COMPRESS DBNAME FARINDREF FREEPAGE GBPCACHE IXCREATOR IXNAME NACTIVE NEARINDREF NPAGES PAGESAVE PARTITION PCTFREE PCTPAGES PCTROWCOMP PERCACT PERCDROP PQTY SPACE SQTY STATSTS STATSTSP STORNAME STORTYPE TSNAME VCATNAME
TBL	ALERTS AUDIT CARD CHECKS CHILD CKFLAG CKRID CLUSTERTYPE COLCOUNT CREATEBY CREATESTS CREATOR DATAC EDPROC KEYCOLUMNS KEYOBID LOCATION NAME NPAGES OBID PARENT PCTPAGES PCTROWCOMP RBA1 RBA2 RECLN STATSTS STATUS TBCREATR TBNAME TYPE VALPROC

Valid field types for the LOCATE command (continued)

Field Type	Field Name
IX	BPOOL CLOSERULE CLUSTER CLUSTERED CLUSTERING COLCOUNT CREATEBY CREATOR DSETPASS ERASERULE FIRSTKEY FULLKEY INDEXSPACE INDEXTYPE ISOBID KEYSIZE NAME NLEAF NLEVELS OBID PGSIZE ROWS SPACE STATSTS UNIQUE
IXP	CARD CLUSTER FAROFFPOS FIRSTKEY FREEPAGE FULLKEY GBPCACHE IXCREATOR IXNAME KEYCNT LEAFDIST NEAROFFPOS NLEAF NLEVELS PARTITION PCTFREE PQTY SPACE SQTY STATSTS STATSTSP STORNAME STORTYPE VCATNAME

Exceptions

Overview

This unit describes the Exceptions panel.

Background about the Exceptions panel

The Exceptions panel (KTEPXCPT) lists exceptions that exist for SQL statements. This panel shows statements that are in error and identifies statements that potentially can affect DB2 performance.

The exceptions that are displayed are affected by the values you have specified on the Exception Options Housekeeping panel and the Recommendations panels.

Access

Exceptions can be accessed from the Primary Menu or the Sessions Menu, or from the DBRMs, Plans, Packages, Tables and Statements panels.

Panel

The following illustration shows the Exceptions panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>>>                                SCROLL ==>> PAGE

                                E X C E P T I O N S
      Cnds: DO (Menu) GLOBAL (Menu)          Selects: ? (Menu)
-----
SEL COUNT  EXCEPTION DESCRIPTION
-----
-          117 TABLE SPACE SCAN
-           45 NON MATCHING INDEX SCAN
-           67 SORT FOR JOIN
-           25 SORT FOR ORDER BY
-          139 LIST PREFETCH
-          123 SEQUENTIAL PREFETCH
-          619 X / IX TABLESPACE LOCKS

```

Exceptions

Fields

FIELD	ON PANEL...	DESCRIPTION
COUNT	KTEPXCPT	Number of exceptions.
EXCEPTION DESCRIPTION	KTEPXCPT	Description of the exception. On recommendation exceptions, the first 8 characters of this field contain the recommendation identifier followed by the exception description.

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
G	Display statement costs. This select is valid for access path information only.	Statement Costs (KTEPCOST)
L	List exception details.	Latest EXPLAIN (KTEPEXPL)
S	List statements.	Statements (KTEPSTMT)

Commands

COMMAND	DESCRIPTION	TAKES YOU TO...
COST	Display cost for the exceptions for all access path types.	Costs (KTEPCOST)
LEXPL	Display latest EXPLAIN results for the tripped exceptions.	EXPLAIN (KTEPEXPL)
RFIND	Reexecute the last FIND command.	
STMTS	Display SQL statements that tripped the exceptions.	Statements (KTEPSTMT)
XERR	Display statements for the exceptions for all "SQL error" types.	Latest EXPLAIN (KTEPEXPL)

Storage considerations when displaying exceptions

When using one of the commands to display statements that triggered an exception condition, you need to ensure that you have sufficient storage to contain the display. Alternatively, you need to limit your request to a number that can be displayed within the existing capacity of your system.

EXPLAIN

Overview

This unit describes the EXPLAIN panel.

Background about the EXPLAIN panel

The EXPLAIN panel (KTEPEXPL) shows access path information of EXPLAINed SQL statements. This panel displays the message “EXTRACT DISCARDED STATEMENTS” when the extract has discarded a statement or statements from the associated DBRM.

If the statement displayed on format 2 or format 6 has been modified by the !DB/EXPLAIN parser to avoid -417 and -418 SQL errors, the panel displays a message indicating the statement has been modified.

Formats

You can display the panel in the formats given in the chart. Customizing format 0 to meet your needs is easily done using Housekeeping's Explain Display tuning Parameters panel.

Format	Displayed Fields
Format 0	User-defined format (defined on the EXPLAIN Display Tuning Parameters panel)
Format 1	Object, BIND, statement text, access path, and recommendation information
Format 2	Access path summary (EXPLAIN Plan Table Data)
Format 3	Object Information, Key Information
Format 4	BIND Data
Format 5	Statement Text
Format 6	Access Path Information
Format 7	Recommendations (text level is None/Terse/Verbose). See “Recommendations Panel 1” on page 350 for more information.
Format 8	Plan Table Data (two line format)
Format 9	Statement Cost Information

Access

Explain is accessed from the Plans, DBRMs, Packages, Statements, or Exceptions panels.

Panels

The following illustration shows format 1 of the EXPLAIN display.

```

----- DB/EXPLAIN DB2=D42B ----- LINE 1 OF 222
Cmd ==> FORMAT1                               SCROLL ==> PAGE
                E X P L A I N
  Cnds: DO (Menu) GLOBAL (Menu)
-----
PLAN=DSN8BD42 DBRM=DSN8BD3  CONTOKEN=15B3C90A0B7E75A0
PRECOMPILE=1999/10/14 16:41:17.260000
EXPLAINED=1999/12/09 11:46:04  DEGREE=1
+----- DETAILED PLAN INFORMATION -----+
| PLAN NAME = DSN8BD42    CREATOR = DCYBU2    PLENTRIES =      0 |
| PLAN FREED? = N        QUALIFIER= DCYBU2    SYSENTRIES=      0 |
| AVERAGE SIZE= 3194    BOUND BY = DCYBU2    DBRMS =          1 |
| PLAN SIZE = 2728      BIND DATE= 1999/10/14 PACKAGES =      0 |
| CACHE SIZE = 1024     BIND TIME= 16:42:01  GROUP MEMBER=    |
| DEGREE = 1           SERVER =              |
|
| VALIDATE = R ISOLATION = S VALID = Y OPERATIVE = Y ACQUIRE= U |
| EXPLAIN = N DEFERPREP = N SQLRULES= D DISCONNECT= E RELEASE= C |
| EXPREDICATE= C DYNAMICRULES= KEEPDM = N REOPT = N              |
+-----+
+----- RECOMMENDATIONS FOR DBRM DSN8BE3 -----+
| RECOMMENDATION B00004 |
| The plan or package this statement belongs to was bound with the |
| option VALIDATE(RUN). Generally the option VALIDATE(BIND) is    |
| preferred. |
|
| When the option VALIDATE(RUN) is specified, DB2 does validity   |
| checking at BIND time and then rechecks any failures at run time. |
| The validity checking at run time can cause catalog contention   |
| and degraded performance. If possible, ensure that all objects   |
| exist and all privileges are granted prior to binding a plan or  |
| package and then choose the VALIDATE(BIND) option. |
+-----+
+----- STATEMENT NUMBER 286 TEXT-----+
| DECLARE TELE1 CURSOR FOR |
| SELECT * |
| FROM VPHONE |
+-----+
+-----STATEMENT NUMBER 286 ERROR-----+
| DSNT4081 SQLCODE = -204, ERROR: DCYBU2.VPHONE IS AN UNDEFINED NAME |
| DSNT4181 SQLSTATE = 42704 SQLSTATE RETURN CODE |
+-----+

```


Panels (continued)

This continues format 1 of the EXPLAIN display.

```

----- DB/EXPLAIN DB2=D42B ----- LINE 1 OF 222
Cmd ==> FORMAT1                               SCROLL ==> PAGE
                E X P L A I N
Cmds: DO (Menu) GLOBAL (Menu)
-----
PLAN=DSN8BD42 DBRM=DSN8BD3  CONTOKEN=15B3C90A0B7E75A0
PRECOMPILE=1999/10/14 16:41:17.260000
EXPLAINED=1999/12/09 11:46:04  DEGREE=1
+----- DETAILED PLAN INFORMATION -----+
| PLAN NAME = DSN8BD42    CREATOR = DCYBU2    PLENTRIES =      0
| PLAN FREED? = N        QUALIFIER= DCYBU2    SYSENTRIES=      0
| AVERAGE SIZE= 3194    BOUND BY = DCYBU2    DBRMS =        1
| PLAN SIZE = 2728      BIND DATE= 1999/10/14 PACKAGES =      0
| CACHE SIZE = 1024     BIND TIME= 16:42:01  GROUP MEMBER=
| DEGREE = 1           SERVER =
|
| VALIDATE = R ISOLATION = S VALID = Y OPERATIVE = Y ACQUIRE= U
| EXPLAIN = N DEFERPREP = N SQLRULES= D DISCONNECT= E RELEASE= C
| EXPREDICATE= C DYNAMICRULES= KEEPDPY= N REOPT = N
+-----+
+----- RECOMMENDATIONS FOR DBRM DSN8BE3 -----+
| RECOMMENDATION B00004
| The plan or package this statement belongs to was bound with the
| option VALIDATE(RUN). Generally the option VALIDATE(BIND) is
| preferred.
|
| When the option VALIDATE(RUN) is specified, DB2 does validity
| checking at BIND time and then rechecks any failures at run time.
| The validity checking at run time can cause catalog contention
| and degraded performance. If possible, ensure that all objects
| exist and all privileges are granted prior to binding a plan or
| package and then choose the VALIDATE(BIND) option.
+-----+
+----- STATEMENT NUMBER 286 TEXT-----+
| DECLARE TELE1 CURSOR FOR
| SELECT *
| FROM VPHONE
+-----+
+-----STATEMENT NUMBER 286 ERROR-----+
| DSNT4081 SQLCODE = -204, ERROR: DCYBU2.VPHONE IS AN UNDEFINED NAME
| DSNT4181 SQLSTATE = 42704 SQLSTATE RETURN CODE
+-----+

```

Panels (continued)

The following illustration shows format 2 of the EXPLAIN display—EXPLAIN Plan Table data.

```

----- DB/EXPLAIN DB2=D42B ----- LINE 1 OF 13
Cmd ==> FORMAT2                               Scroll ==> PAGE
                E X P L A I N
Cmds: DO (Menu) GLOBAL (Menu)
-----
PACKAGE=DSNHYCRD COLLID=DSNHYCRD          CONTOKEN=155403E608555E10
PRECOMPILE=1999/02/13 06:30:05.610000
EXPLAINED=1999/12/09 13:35:09  DEGREE=1
+----- ACCESS PATH SUMMARY -----+
| STMT QB  PLN MX EMJP AC I MT MJ P ACCESS JOIN  SRNSRC  SRN SRC  LCK  PFW |
| NO. NO. NO. OP METR CS X CL CL M  DG ID DG ID  ID ID UJOGUJOG  LCK  FNO  |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 437  1  1  0 E0  I N 2  0  0  0  0  0  0  0  0  NNNNNNNN  IS  L  |
| 488  1  2  0 E0  N  0  0  0  0  0  0  0  0  0  0  NNNNNNNN  IS  L  |
| 543  1  1  0 E0  I N 2  0  0  0  0  0  0  0  0  NNNNNNNN  IS  L  |
| 1717 1  2  0 E0  N  0  0  0  0  0  0  0  0  0  0  NNNNNNNN  IS  L  |
| 204  1  1  0 E0  I N 2  0  0  0  0  0  0  0  0  NNNNNNNN  IS  L  |
+-----+-----+-----+-----+-----+-----+-----+-----+
***** BOTTOM OF LIST *****

```

Panels (continued)

The following illustration shows format format 3 of the EXPLAIN display—object information.

```

----- DB/EXPLAIN DB2=D31A ----- LINE1 OF 92
CMD ==> FORMAT3                               SCROLL ==> PAGE
                E X P L A I N
  Cnds: DO (Menu) GLOBAL (Menu)
-----
PLAN=CRBDPLNR DBRM=DSDDDB2UP CONTOKEN=1470006C10B79FB4
PRECOMPILE=1998/02/23 02:42:08.610000
EXPLAINED=1999/03/01 11:46:04 DEGREE=1
+----- DETAILED OBJECT INFORMATION FOR STATEMENT NUMBER 373 -----+
| TS= DSNDB06.SYSDBASE          PARTITIONS= 0  LOCKRULE = A
| NACTIVE= 540                  OBID= 1      CLOSERULE= N  CREATOR = SYSIBM
| NTABLES= 14                   DBID= 6      IMPLICIT = N  CREATEBY= SYSIBM
| SPACE = 0                     PSID= 9      STATUS  = A  BPOOL  = BP0
| PGSIZE = 4                    SEGSIZE= 0    ERASERULE= N DSETPASS=
| LOCKMAX= 0                    STATSTS= 1999/11/02 15:28:07.744171
|
| TBL= SYSIBM.SYSTABLES          LOCATION=
| RECLEN= 521                    TBCREATR=          TYPE = T
| CARD = 211                    TBNAME =          STATUS= X
| NPAGES= 110                   CREATEBY= SYSIBM  CKFLAG=
| PCTPAGES = 20                 VALPROC =          AUDIT =
| KEYOBID = 61                  EDPROC =          CHILD = 7
| OBID = 19                     CKRID =           PARNT = 1
| COLCOUNT = 38               RBA1 = 00000000   DATAC =
| KEYCOLUMNS= 2               RBA2 = 00000000
| PCTROWCOMP= 0                CREATETS= 1998/04/01 00:00:00.000000
| CHECKS = 0                    ALTERTS = 1999/06/24 16:09:28.046861
| CLUSTERTYPE =                 STATSTS = 1999/11/02 15:28:07.744171
|
|----- USED INDEXES -----|
| IX= SYSIBM.DSNDTX01           CREATEBY = SYSIBM
| FULLKEY = 211                 NLEVELS= 2        CLUSTRATIO= 62
| FIRSTKEY= 28                  NLEAF= 28         CLUSTERED = N
| SPACE = 0                     COLCOUNT = 2     CLUSTERING= N
| PGSIZE= 4096                 ERASERULE= N      INDEXTYPE =
| SUBPAG= 1                    CLOSERULE= N      DSETPASS =
| OBID = 61                    UNIQUE = P         INDEXTYPE= DSNDTX01
| ISOBID= 93                   STATSTS = 1999/11/02 15:28:07.744171
| BPOOL = BP0
|
|   KY          O N
| USE SQ KEY COLUMN NAME  R L COLTYPE  LENGTH SCALE COLCARD
|-----|
| **> 1 CREATOR          A N CHAR      8                28
|   HIGH2KEY= TSL251    LOW2KEY= CLOVIS
|
| **> 2 NAME             A N VARCHAR   18                118
|   HIGH2KEY= VSTAFAC1  LOW2KEY= ALTERCON
|
|----- UNUSED INDEXES -----|
| IX= SYSIBM.DSNDTX02           CREATEBY = SYSIBM
| FULLKEY = 211                 NLEVELS= 2        CLUSTRATIO= 76
| FIRSTKEY= 25                  NLEAF= 25         CLUSTERED = N
| SPACE = 0                     COLCOUNT = 4     CLUSTERING= N
| PGSIZE= 4096                 ERASERULE= N      INDEXTYPE =
| SUBPAG= 1                    CLOSERULE= N      DSETPASS =
| OBID = 163                   UNIQUE = U         INDEXTYPE= DSNDTX02
| ISOBID= 164                 STATSTS = 1999/11/02 15:28:07.744171
| BPOOL = BP0
+-----+

```

Panels (continued)

Format 4 of the EXPLAIN display shows bind data.

```

----- DB/EXPLAIN DB2=D42B ----- LINE1 OF 31
Cmd ==> FORMAT4                               SCROLL ==> PAGE
                E X P L A I N
  Cmds: DO (Menu) GLOBAL (Menu)
-----
PLAN=CRBDPLNR DBRM=DSN8BD3P CONTOKEN=15B3C90A0B7E75A0
PRECOMPILE=1999/10/14 02:42:08.610000
EXPLAINED=1999/12/09 11:46:04 DEGREE=1
+----- DETAILED PLAN INFORMATION -----+
| PLAN NAME   = DSN8BD42   CREATOR  = DCYBU2   PLENTRIES =    0
| PLAN FREED? = N         QUALIFIER= DCYBU2   SYSENTRIES=    0
| AVERAGE SIZE=   3194   BOUND BY = TDCYBU2   DBRMS     =    3
| PLAN SIZE   =   2728   BIND DATE= 1999/10/14 PACKAGES  =    0
| CACHE SIZE  =   1024   BIND TIME= 03:41:49   GROUP MEMBER=
| DEGREE     =    1     SERVER    =
|
| VALIDATE   = R  ISOLATION   = S  VALID    = Y  OPERATIVE = Y  ACQUIRE= U
| EXPLAIN    = N  DEFERPREPARE= N  SQLRULES= D  DISCONNECT= E  RELEASE= C
| EXPREDICATE= C  DYNAMICRULES=    KEEPDPN = N  REOPT    = N
+-----+
***** BOTTOM OF LIST *****

```

Format 5 of the EXPLAIN display shows statement text.

```

----- DB/EXPLAIN DB2=D31A ----- LINE1 OF 33
CMD ==> FORMAT5                               SCROLL ==> PAGE
                E X P L A I N
  Cmds: DO (Menu) GLOBAL (Menu)
-----
PLAN=CRBDPLNR DBRM=DSDBB2UP CONTOKEN=1470006C10B79FB4
PRECOMPILE=1998/02/23 02:42:08.610000
EXPLAINED=1999/03/01 11:46:04 DEGREE=1
+----- STATEMENT NUMBER 373 TEXT -----+
| SELECT CURRENT TIMESTAMP
| INTO :WORKTIME
| FROM SYSIBM.SYSTABLES
| WHERE NAME = 'DSPSTATS ' AND CREATOR = 'CDB'
+-----+
+----- STATEMENT NUMBER 458 TEXT -----+
| INSERT INTO CDB.DSPHIST
| VALUES
| ( :WORKTIME , :TMPDBNAM , :TMPSPNAM , :TMPPART# , :TMPRELVL , :TMPDSTYP ,
|   :TMPASSGN , :TMPVCAT , :TMPSTGRP , :TMPPSWD , :TMPSTTYP , :TMPRSRVD ,
|   :TMPPQTY , :TMPSQTY , :TMP#EXTS , :TMPTLSPC , :TMPUSED , :TMPVLSR1
| )
+-----+
***** BOTTOM OF LIST *****

```

Panels (continued)

Format 6 of the EXPLAIN display lists access path information.

```

----- DB/EXPLAIN DB2=D31A ----- LINE1 OF 78
CMD ==> FORMAT6                                SCROLL ==> PAGE
                E X P L A I N
  Cnds: DO (Menu) GLOBAL (Menu)
-----
PLAN=CRBDPLNR DBRM=DSDDDB2UP CONTOKEN=1470006C10B79FB4
PRECOMPILE=1999/02/23 02:42:08.610000
EXPLAINED=1999/03/01 11:46:04 DEGREE=1
+----- ACCESS PATH STRATEGY FOR STATEMENT NUMBER 373 -----+
|
| Statement Cost: 7.6
|   The cost (timerons) is a rough estimate of resources required to
|   execute the SQL statement.
|
| Query Block No. 1
|
|   Step 1
|
|   Access Info:
|
|     This is either a composite table or it is the first table accessed.
|     This step accesses SYSIBM.SYSTABLES.
|     Uses index SYSIBM.DSNDTX01.
|     Matching on 2 index columns.
|     Index access only, no table pages are accessed.
|     Column functions are to be decided at run time.
|
|   Lock Info:
|
|     Intent Share. Lock holder has read-only access.
|     Concurrent reads and updates are allowed.
|-----+
PLAN=CRBDPLNR DBRM=DSDSLQ01 CONTOKEN=145CF65D033BF130
PRECOMPILE=1998/10/24 23:12:43.950000
EXPLAINED=1999/03/01 11:46:04 DEGREE=1
+----- ACCESS PATH STRATEGY FOR STATEMENT NUMBER 227 -----+
|
| Statement Cost: 0.3
|   The cost (timerons) is a rough estimate of resources required to
|   execute the SQL statement.
|
| Query Block No. 1
|
|   Step 1
|
|   Access Info:
|
|     This is either a composite table or it is the first table accessed.
|     This step accesses SYSIBM.SYSTABLESPACE.
|     Uses index SYSIBM.DSNDX01.
|     Matching on 2 index columns.
|     Index access only, no table pages are accessed.
|     Column functions are to be decided at run time.
|
|   Lock Info:
|
|     Intent Share. Lock holder has read-only access.
|     Concurrent reads and updates are allowed.
|-----+
***** BOTTOM OF LIST *****

```

Panels (continued)

Format 7 of the EXPLAIN display provides recommendations in verbose text style.

```

----- DB/EXPLAIN D31A ----- LINE1 OF 86
CMD ==>                                SCROLL ==> PAGE
                                E X P L A I N
  Cnds: DO (Menu) GLOBAL (Menu)
-----
PACKAGE=I321899D COLLID=I321899B          CONTOKEN=151E21441FDC79B2
PRECOMPILE=1999/03/07 09:49:35.616486
EXPLAINED=1999/08/26 07:12:19  DEGREE=1
+----- RECOMMENDATIONS FOR PACKAGE I321899D -----+
| NO BIND TYPE RECOMMENDATIONS FOR PACKAGE          |
+-----+
+----- RECOMMENDATIONS FOR STATEMENT NUMBER 156 -----+
RECOMMENDATION 000002
  Tablespace DSNDB04.EMP has a LOCKSIZE of ANY. Lock
  escalation may occur. If concurrency is of utmost importance for
  applications referencing this tablespace then LOCKSIZE(PAGE) may
  be a better choice.

  When LOCKSIZE ANY is specified, the number of locks that any
  program can hold within a table space is limited by the value
  specified for LOCKS PER TABLE(SPACE) when DB2 was installed.
  When the number of page locks reaches the limit, a tablespace
  lock is acquired and all of the page locks are released. When
  LOCKSIZE PAGE is specified, lock escalation will not occur.

RECOMMENDATION 000004
  Tablespace DSNDB04.EMP has a LOCKSIZE of ANY. The
  !DB/EXPLAIN database shows no INSERT / UPDATE / DELETE statements
  referencing table Tddb44B.EMP. If this table is
  truly read only then a LOCKSIZE of TABLE or TABLESPACE may
  improve performance.

EXCEPTION X00009
  Sequential Prefetch
-----
+----- RECOMMENDATIONS FOR STATEMENT NUMBER 161 -----+
RECOMMENDATION 000002
  Tablespace DSNDB04.EMP has a LOCKSIZE of ANY. Lock
  escalation may occur. If concurrency is of utmost importance for
  applications referencing this tablespace then LOCKSIZE(PAGE) may
  be a better choice.

  When LOCKSIZE ANY is specified, the number of locks that any
  program can hold within a table space is limited by the value
  specified for LOCKS PER TABLE(SPACE) when DB2 was installed.
  When the number of page locks reaches the limit, a tablespace
  lock is acquired and all of the page locks are released. When
  LOCKSIZE PAGE is specified, lock escalation will not occur.

RECOMMENDATION 000004
  Tablespace DSNDB04.EMP has a LOCKSIZE of ANY. The
  !DB/EXPLAIN database shows no INSERT / UPDATE / DELETE statements
  referencing table Tddb44B.EMP. If this table is
  truly read only then a LOCKSIZE of TABLE or TABLESPACE may
  improve performance.

EXCEPTION X00009
  Sequential Prefetch
-----

```

Panels (continued)

Format 8 of the EXPLAIN display illustrates plan table data in two-line format.

```

----- DB/EXPLAIN DB2=D42B ----- LINE 1 OF 30(F)
Cmd ==> FORMAT8                               Scroll ==> PAGE
                                         E X P L A I N
Cmds: D0 (Menu) GLOBAL (Menu)
-----
PACKAGE=DSNHYCRD COLLID=DSNHYCRD      CONTOKEN=155403E608555E10
PRECOMPILE=1999/02/13 06:30:05.610000
EXPLAINED=1999/12/09 13:35:09  DEGREE=1
+----- ACCESS PATH SUMMARY -----+
  STMT QB  PLN MX EMJP AC I MT MJ P ACCESS JOIN SRNSRC SRN SRC  PFW
  NO. NO. NO. OP METR CS X CL CL M  DG ID DG ID  ID ID UJOGUJOG LCK FNO
-----
1051   1   1   0 E0   I N 2 0   0 0 0 0   0 0 NNNNNNNN  IS L
      TBL=SYSIBM.SYSTABLESPACE      NDX=SYSIBM.DSNDX01
      TABNO= 1                      STMT COST=      1,419.5*
      QUERY TYPE=SELECT
1051   1   2   0 E3   N  0 0   0 0 0 0   0 0 NNNNNNNN
      QUERY TYPE=SELECT
1056   1   1   0 E0   I N 2 0   0 0 0 0   0 0 NNNNNNNN  IS L
      TBL=SYSIBM.SYSCOLUMNS      NDX=SYSIBM.DSNDX01
      TABNO= 1                      STMT COST=      1,094.9*
      QUERY TYPE=SELECT
1056   1   2   0 E0   N  0 0   0 0 0 0   0 0 NNNNNNNN
      QUERY TYPE=SELECT
204    1   1   0 E0   I N 2 0   0 0 0 0   0 0 NNNNNNNN  IS
      TBL=SYSIBM.SYSTABLES      NDX=SYSIBM.DSNDX01
      TABNO= 1                      STMT COST=      52.8*
      QUERY TYPE=SELECT
+-----+
***** BOTTOM OF LIST *****

```

Panels (continued)

Format 9 of the EXPLAIN display provides statement cost information. Fields on the Statement Cost Information panel are sorted by statement cost in descending order.

```

----- DB/EXPLAIN DB2=D31A ----- LINE1 OF 12
CMD ==> FORMAT9                               SCROLL ==> PAGE
                E X P L A I N
      CMDS: DO (MENU) GLOBAL (MENU)
-----
PLAN=CRBDPLNR DBRM=DSDDDB2UP CONTOKEN=1470006C10B79FB4
PRECOMPILE=1999/02/23 02:42:08.610000
EXPLAINED=1999/03/01 11:46:04 DEGREE=1
+----- COST INFORMATION -----+
| STMT                                     |
| NO.  STATEMENT TYPE                     | STMT COST  SQLCODE |
|-----|-----|-----|-----|
| 373  SELECT                               | 7.6        0      |
+-----+-----+-----+-----+

PLAN=CRBDPLNR DBRM=DSDSL01 CONTOKEN=145CF65D033BF130
PRECOMPILE=1998/10/24 23:12:43.950000
EXPLAINED=1999/03/01 11:46:04 DEGREE=1
+----- COST INFORMATION -----+
| STMT                                     |
| NO.  STATEMENT TYPE                     | STMT COST  SQLCODE |
|-----|-----|-----|-----|
| 227  SELECT                               | 0.3        0      |
+-----+-----+-----+-----+
***** BOTTOM OF LIST *****

```

Fields and Associated Sorts and Filters

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
ACC DEG	2	Number of parallel I/O streams activated by a query Source: PLAN_TABLE.ACCESS_DEGREE	EADG
ACCESS INFO	1	Method of accessing the new table: I By an index II One-fetch index scan N Index scan when predicate contains IN keyword R table space scan MX By a multiple index scan on the index named in ACCESSNAME MI By an intersection of multiple indexes MU By a union of multiple indexes Blank Not applicable to the current row Source: PLAN_TABLE.ACESSTYPE	EACCS
ACCESS PATH	1, 6	Descriptive text on access path Source: Derived	
ACC PID	2	Identifier of the parallel group Source: PLAN_TABLE.ACCESS_PGROUP_ID	EAID
ACCS (ACCESS)	2	Method of accessing the new table: I By an index II One-fetch index scan N Index scan when predicate contains IN keyword R table space scan MX By a multiple index scan on the index named in ACCESSNAME MI By an intersection of multiple indexes MU By a union of multiple indexes Blank Not applicable to the current row Source: PLAN_TABLE.ACESSTYPE	EACCS
ACQUIRE	1, 4	When resources are acquired: A At allocation U At use Source: SYSIBM.SYSPLAN.ACQUIRE	
ALTERED	1, 3	Time when the latest ALTER TABLE statement was applied Source: SYSIBM.SYSTABLES.ALTEREDTS	

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
AUDIT	1, 3	Indicates status of the audit: A AUDIT All C AUDIT CHANGE blank AUDIT NONE, or the row describes a view or alias Source: SYSIBM.SYSTABLES.AUDITING	
AVERAGE SIZE	1, 4	Average size, measured in bytes, of the plan section processed at BIND time Source: SYSIBM.SYSPLAN.AVGSIZE	
AVSIZE	1, 4	Average size, measured in bytes, of the package section processed at BIND time Source: SYSIBM.SYSPACKAGE.AVGSIZE	
BIND DATE	1, 4	Date on which the plan was last bound, in the form YYYY/MM/DD Source: SYSIBM.SYSPLAN.BINDDATE	
BIND TIME	1, 4	Time the plan was last bound, in the form HH:MM:SS Source: SYSIBM.SYSPLAN.BINDTIME	
BOUND	1, 4	Timestamp indicating when the package was last bound Source: SYSIBM.SYSPACKAGE.BINDTIME	
BOUND BY	1, 4	Primary authorization ID of the binder of the plan Source: SYSIBM.SYSPLAN.BOUNDBY	
BPOOL (IX)	1, 3	Name of the buffer pool used for index Source: SYSIBM.SYSINDEXES.BPOOL	
BPOOL (TS)	1, 3	Name of the buffer pool used for the table space Source: SYSIBM.SYSTABLESPACE.BPOOL	
C H	9	Statement changed indicator N This is the original statement text Y The user modified this SQL statement text A The user added this SQL statement Source: derived	
CACHE SIZE	1, 4	Size, measured in bytes, of the cache to be acquired for the plan Source: SYSIBM.SYSPLAN.CACHESIZE	
CARD (IXP)	1, 3	Number of rows referred to by the index or partition Source: SYSIBM.SYSINDEXPART.CARD	
CARD (TBL)	1, 3	Number of rows in the table Source: SYSIBM.SYSTABLES.CARD	

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
CARD (TSTP)	1, 3	Number of rows in the table space or partition. Source: SYSIBM.SYSTABLEPART.CARD	
CARDP (TSTP)	1, 3	Total number of rows in the partition Source: SYSIBM.SYSTABSTATS.CARD	
<i>Changed statement identifier</i>	(Does not appear as field; however, can be filtered on.)	A value that identifies whether a user has changed the SQL text of a statement. Y User has changed the SQL statement text N The text of the statement is the original text. A This is a new SQL statement added by the user. Source: derived	ECHA
CHARSET	1, 4	Indicates whether the system CCSID for SBCS data was 290 (Katakana) when the program was precompiled: K Yes A No Source: SYSIBM.SYSPACKAGE.CHARSET	
CHECKFLAG (TBL)	1, 3	Flag indicating the following: C There are rows in the table that can violate referential constraints. blank The table contains no rows that violate referential constraints, or the row describes a view or alias. Source: SYSIBM.SYSTABLES.CHECKFLAG	
CHECKFLAG (TSTP)	1, 3	Flag indicating the following: C The table space partition is in CHECK PENDING mode and there are rows that can violate referential constraints. blank The table contains no rows that violate referential constraints, or the table space is not a partition. Source: SYSIBM.SYSTABLEPART.CHECKFLAG	
CHECKS (TBL)	1, 3	Number of check constraints defined on a table. The value in this field is 0 if there are no constraints, or if the row describes a view or alias. Source: SYSIBM.SYSTABLES.CHECKS	
CHILD	1, 3	Number of relationships in which the table is a parent; 0 means the row describes a view or alias. Source: SYSIBM.SYSTABLES.CHILDREN	

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
CKRID (TBL)	1, 3	<p>RID RID of the first row of the table that can violate referential constraints</p> <p>blank Table is not in a check pending state.</p> <p>Source: SYSIBM.SYSTABLES.CHECKRID</p>	
CKRID (TSTP)	1, 3	<p>RID RID of the first row of the table that can violate referential constraints.</p> <p>blank Table or partition is not in a check pending state or the table space is not partitioned.</p> <p>Source: SYSIBM.SYSTABLEPART.CHECKRID</p>	
CLOSERULE (IX)	1, 3	<p>Indicates whether the datasets are candidates for being closed when the limit on the number of open datasets is reached:</p> <p>N No Y Yes</p> <p>Source: SYSIBM.SYSINDEXES.CLOSERULE</p>	
CLOSERULE (TS)	1, 3	<p>Indicates whether the datasets are candidates for being closed when the limit on the number of open datasets is reached:</p> <p>Y Yes N No</p> <p>Source: SYSIBM.SYSTABLESPACE.CLOSERULE</p>	
CLUSTERED	1, 3	<p>Indicates whether the table is actually clustered by the index:</p> <p>N No: 95% or fewer of the rows are in clustering order; or statistics were not gathered</p> <p>Y Yes: More than 95% of the rows are in clustering order</p> <p>Source: SYSIBM.SYSINDEXES.CLUSTERED</p>	
CLUSTERING	1, 3	<p>Indicates whether CLUSTER was specified when the index was created:</p> <p>N No Y Yes</p> <p>Source: SYSIBM.SYSINDEXES.CLUSTERING</p>	

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
CLUSTERTYPE (TBL)	1, 3	Indicates whether the table can be dropped (that is, whether the table is defined with RESTRICT ON DROP). blank The table can be dropped Y The table cannot be dropped and any table space or database containing this table also cannot be dropped. Source: SYSIBM.SYSTABLES.CLUSTERTYPE	
CLUSTRATIO	1, 3	Percentage of rows that are in clustering order. This field is updateable. Source: SYSIBM.SYSINDEXES.CLUSTERRATIO	
CLUSTRATIO (IXP)	1, 3	Percentage of rows that are in clustering order. The field is updateable. Source: SYSIBM.SYSINDEXSTATS.CLUSTERRATIO	
COLCOUNT (TBL)	1, 3	Number of columns in the table or view Source: SYSIBM.SYSTABLES.COLCOUNT	
COLCOUNT (IX)	1, 3	Number of columns in the key Source: SYSIBM.SYSINDEXES.COLCOUNT	
COLLECTION	1, 4	Name of the package collection Source: SYSIBM.SYSPACKAGE.COLLDID	ECOL
COLLECTION ID	1, 2	Name of the collection in which the package resides Source: SYSIBM.SYSPACKAGE.COLLDID	ECOL
COMPRESS (TSTP)	1, 3	Indicates whether compression is defined for a table space or table space partition blank Compression is not defined. Y Compression is defined. Source: SYSIBM.SYSTABLEPART.COMPRESS	
COMMA	1, 4	Indicates the decimal point representation for SQL statements in the package: N Period Y Comma Source: SYSIBM.SYSPACKAGE.COMMA	
CONTOKEN	1, 3, 4, 5	Consistency token for the package Source: SYSIBM.SYSPACKAGE.CONTOKEN	
CORR=	8	Correlation name of a table or view that is specified in the statement. If no correlation name is specified or if the DB2 subsystem is not at least Version 4, the field is blank. Source: PLAN_TABLE.CORRELATION_NAME	ECORR

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
<i>Cost field discrepancy identifier</i>	(Does not appear as field; however, can be filtered on.)	A value that identifies whether the statement cost may be in error as the result of a column being compared to a host variable or literal of a different type or length. Value may be: Y Statement cost may be in error N Statement cost estimate is approximately equivalent to the cost that would have been determined if the statement were bound in a plan or package. Source: derived	ETCMI
CREATEBY (IX)	1, 3	Primary authorization ID of the user who created the index Source: SYSIBM.SYSINDEXES.CREATEDBY	EICR
CREATEBY (TBL)	1, 3	Primary authorization ID of the user who created the table, view, or alias Source: SYSIBM.SYSTABLES.CREATEDBY	ETCR
CREATEBY (TS)	1, 3	Primary authorization ID of the user who created the table space Source: SYSIBM.SYSTABLESPACE.CREATEDBY	
CREATED	1, 3	Time when the CREATE statement was executed for the table, view, or alias Source: SYSIBM.SYSTABLES.CREATEDTS	
CREATOR (Packages)	1, 4	Authorization ID of the package creator Source: SYSIBM.SYSPACKAGE.CREATOR	
CREATOR (Plans)	1, 4	Authorization ID of the owner of the application plan Source: SYSIBM.SYSPLAN.CREATOR	
CREATOR (TS)	1, 3	Authorization ID of the owner of the table space Source: SYSIBM.SYSTABLESPACE.CREATOR	
DATACAPTURE (TBL)	1, 3	Records the value of the DATACAPTURE option for the table blank Data capture not specified. Y Data capture specified. Source: SYSIBM.SYSTABLES.DATACAPTURE	
DBID	1, 3	Internal identifier of the database which contains the table space Source: SYSIBM.SYSTABLESPACE.DBID	
DBRM/PACKAGE NAME	1, 2, 3, 4, 5	Name of the package or DBRM Source: SYSIBM.SYSSTMT or SYSPACKSTMT	EDBRM

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
DEC31	1, 4	Indicates whether DEC31 was in effect when the program was precompiled: blank No Y Yes Source: SYSIBM.SYSPACKAGE.DEC31	
DEGREE	1, 2, 3, 4, 5	DEGREE option used for the plan or package at bind time Source: SYSIBM.SYSPACKAGE.DEGREE SYSIBM.SYSPLAN.DEGREE	
DEGREE (on EXPLAIN header)	1, 2, 3, 4, 5	Value of CURRENT DEGREE at the time the plan, package, DBRM, or SQL statement was EXPLAINed Source: SYSIBM.SYSPACKAGE.DEGREE SYSIBM.SYSPLAN.DEGREE	
DISCONNECT	1, 4	DISCONNECT option used when the plan was bound Source: SYSIBM.SYSPLAN.DISCONNECT	
DEFERPREP	1, I	Indicates the CURRENTDATA option when the package was bound or rebound: A Data currency required for all cursors. Inhibit blocking for all cursors. This value can only be generated by a non-DB2 application requestor. B Data currency is not required for ambiguous cursors. Allow blocking for ambiguous cursors. C Data currency is required for ambiguous cursors. Inhibit blocking for ambiguous cursors. blank Blocking protocol not recorded because the package was created before the CURRENTDATA option was available. Source: SYSIBM.SYSPACKAGE.DEFERPREP	
DEFERPREPARE (Packages)	1, I	Indicates whether the package was bound with the DEFER(PREPARE) option. Valid values include: Y Yes N No Blank The option is inherited from the PLAN Source: SYSPACKAGE.DEFERPREPARE	

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
DEFERPREPARE(Plans)	1, I	Indicates whether the package was bound with the DEFER(PREPARE) option. Valid values include: Y Yes N No Source: SYSPLAN.DEFERPREPARE	
DSETPASS (IX)	1, 3	Password for the datasets of the index Source: SYSIBM.SYSINDEXES.DSETPASS	
DSETPASS (TS)	1, 3	Password for the datasets of the table space Source: SYSIBM.SYSTABLESPACE.DSETPASS	
DYNAMICRULES= (Packages)	1, 4	Indicates whether run time or bind time rules will apply to a dynamic SQL statement at run time B Dynamic SQL statements are handled like static SQL statements at run time. R Dynamic SQL statements are handled like dynamic SQL statements at run time. blank Handling for dynamic SQL statements is not specified if the DB2 subsystem is not at least Version 4. Source: SYSIBM.SYSPLAN.DYNAMICRULES	
DYNAMICRULES= (Plans)	1, 4	Indicates whether run time or bind time rules will apply to a dynamic SQL statement at run time B Dynamic SQL statements are handled like static SQL statements at run time. R Dynamic SQL statements are handled like dynamic SQL statements at run time. blank Handling for dynamic SQL statements is not specified if the DB2 subsystem is not at least Version 4. Source: SYSIBM.SYSPLAN.DYNAMICRULES	
E M	2, 8	EXPLAIN method E EXPLAIN results are from a !DB/EXPLAIN EXPLAIN P EXPLAIN results are from a PLAN_TABLE extract B EXPLAIN results are from a BIND COMPARE * An SQL error occurred during the EXPLAIN Source: derived	EEXME
EDPROC	1, 3	Name of the edit procedure Source: SYSIBM.SYSTABLES.EDPROC	

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
ERASERULE (IX)	1, 3	Whether the datasets are to be erased when dropped (not applicable for partitioned indexes): Y Yes N No Source: SYSIBM.SYSINDEXES.ERASERULE	
ERASERULE (TS)	1, 3	Whether the datasets are to be erased when dropped (not applicable for partitioned table spaces): Y Erase N No Source: SYSIBM.SYSTABLESPACE.ERASERULE	
EXPLAIN (Packages)	1, 4	EXPLAIN at BIND? Y Yes N No Source: SYSIBM.SYSPACKAGE.EXPLAIN	
EXPLAIN (Plans)	1, 4	EXPLAIN at BIND? Y Yes N No Source: SYSIBM.SYSPLAN.EXPLAIN	
EXPLAIN TIMESTAMP	1, 2, 4	Time at which the EXPLAIN statement was processed Source: PLAN_TABLE.TIMESTAMP	
EXPREDICATE	I, 4	Indicates the CURRENTDATA option when the plan was bound or rebound. B Data currency is not required for ambiguous cursors. Allow blocking for ambiguous cursors. C Data currency is required for ambiguous cursors. Inhibit blocking for ambiguous cursors. N Blocking is inhibited for ambiguous cursors but the plan was created before the CURRENTDATA option was available. Source: SYSIBM.SYSPLAN.EXPREDICATE	
FARINDREF	1, 3	Number of rows that have been relocated far from their original page Source: SYSIBM.SYSTABLEPART.FARINDREF	
FAROFFPOS	1, 3	Number of referred to rows that are far from optimal position as the result of an insert into a full page Source: SYSIBM.SYSINDEXPART.FAROFFPOS	

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
FIRSTKEY	1, 3	Number of distinct values of the first key column Source: SYSIBM.SYSINDEXES.FIRSTKEYCARD	
FIRSTKEY (IXP)	1, 3	Number of distinct values of the first key column Source: SYSIBM.SYSINDEXSTATS.FIRSTKEYCARD	
FN (Function)	1, 2	A character that indicates when an SQL column function was evaluated: R At data retrieval time S At sort time Blank To be decided at run time Source: PLAN_TABLE.COLUMN_FN_EVAL	ECOLF
FREEPAGE (IXP)	1, 3	Number of pages loaded before a page is left as free space Source: SYSIBM.SYSINDEXPART.FREEPAGE	
FREEPAGE (TSTP)	1, 3	Number of pages loaded before a page is left as free space Source: SYSIBM.SYSTABLEPART.FREEPAGE	
<i>FROM clause table identifier</i>	(Does not appear as field; however, can be filtered on.)	A number that identifies the FROM Clause table referred to for the row. Source: PLAN_TABLE.TABNO	ETBNO
FULLKEY	1, 3	Number of distinct values of the key column Source: SYSIBM.SYSINDEXES.FULLKEYCARD	
FULLKEY (IXP)	1, 3	Number of distinct values of the key column Source: SYSIBM.SYSINDEXSTATS.FULLKEYCARD	
GBPCACHE (IXP)	1, 3	The group buffer pool cache option for the index or index space A Both changed and unchanged pages are cached in the group buffer pool blank Only changed pages are cached in the group buffer pool, or the DB2 subsystem is not at least Version 4. Source: SYSIBM.SYSINDEXPART.GBPCACHE	

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
GBPCACHE (TSTP)	1, 3	The group buffer pool cache option for the table or table space A Both changed and unchanged pages are cached in the group buffer pool blank Only changed pages are cached in the group buffer pool, or the DB2 subsystem is not at least Version 4. Source: SYSIBM.SYSTABLEPART.GBPCACHE	
HOSTLANG	1, 4	Indicates the host language: B Assembler Language C COBOL D C F FORTRAN P PL/I 2 VS COBOL II Source: SYSIBM.SYSPACKAGE.HOSTLANG	
GROUP MEMBER=	1, 4	DB2 data sharing member name of the DB2 subsystem that performed the last BIND Source: SYSIBM.SYSPACKAGE.GROUP_MEMBER	EGRP
IMPLICIT	1, 3	Indicates whether the table space was created implicitly: Y Yes N No Source: SYSIBM.SYSTABLESPACE.IMPLICIT	
INDEXNAME	1, 8	For ACESSTYPE I, I1, N, or MX, the name of the index; otherwise blank Source: PLAN_TABLE.ACCESSNAME	EIX
INDEXSPACE	1, 3	Name of index space Source: SYSIBM.SYSINDEXES.INDEXSPACE	
INDEXTYPE	1, 3	The type of the index blank Index is type 1 2 Index is type 2 Source: SYSIBM.SYSINDEXES.INDEXTYPE	
ISOBID	1, 3	Internal identifier for the set descriptor of the index page Source: SYSIBM.SYSINDEXES.ISOBID	

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
ISOLATION (Packages)	1, 4	Isolation level: R RR (Repeatable Read) S CS (Cursor Stability) T RS (Read Stability) U UR (Uncommitted Read) Source: SYSIBM.SYSPACKAGE.ISOLATION	
ISOLATION (Plans)	1, 4	Isolation Level: R RR (Repeatable Read) S CS (Cursor Stability) Source: SYSIBM.SYSPLAN.ISOLATION	
IX (EPTB, Plan Table Data)	1, 2	Indicates whether access to an index alone is enough to satisfy the query: Y Yes N No Source: PLAN_TABLE.INDEXONLY	ENDXO
IX (IX, Indexes)	1	Index name Source: SYSIBM.SYSINDEXES.CREATOR Source: SYSIBM.SYSINDEXES.NAME	
IXCREATOR	1, 3	Authorization ID of the owner of the partitioned index Source: SYSIBM.SYSTABLEPART.IXCREATOR	
IXNAME	1, 3	Name of the partitioned index Source: SYSIBM.SYSTABLEPART.IXNAME	
IXP	1, 3	Index name Source: SYSIBM.SYSINDEXPART.CREATOR Source: SYSIBM.SYSINDEXPART.IXNAME	
J T=	1, 8	Join type Source: SYSIBM.PLAN_TABLE.JOIN_TYPE	EJTYP
JOI DEG	2	Number of parallel I/O streams used to join tables Source: PLAN_TABLE.JOIN_DEGREE	EJDG
JOI PID	2	Identifier of the parallel group used to join tables Source: PLAN_TABLE.JOIN_PGROUP_ID	EJID

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
KEEPDYNAMIC (Packages)	2	Indicates the KEEPDYNAMIC option when the package was bound or rebound. Valid values include: Y Keep dynamic SQL past commit or rollback N Destroy dynamic SQL at commit or rollback Source: SYSPACKAGE.KEEPDYNAMIC	
KEEPDYNAMIC (Plans)	2	Indicates the KEEPDYNAMIC option when the package was bound or rebound. Valid values include: Y Keep dynamic SQL past commit or rollback N Destroy dynamic SQL at commit or rollback Source: SYSPLAN.KEEPDYNAMIC	
KEYCOLUMNS	1, 3	Number of columns in the table's primary key Source: SYSIBM.SYSTABLES.KEYCOLUMNS	
KEYCNT (IXP)	1, 3	Number of rows in the partition Source: SYSIBM.SYSINDEXSTATS.KEYCOUNT	
KEYOBID	1, 3	Internal DB2 identifier of the index that enforces uniqueness of the table's primary key Source: SYSIBM.SYSTABLES.KEYOBID	
LCK (LOCK INFO)	1, 2	Lock mode of the table space that contains the new table: IS Intent Share IX Intent Exclusive S Share X Exclusive SIX Share with intent exclusive U Update Source: PLAN_TABLE.TSLOCKMODE	ELCKM
LEAFDIST	1, 3	100 times the average number of pages between successive leaf pages of the index Source: SYSIBM.SYSINDEXPART.LEAFDIST	
LIBRARY	1, 4	Name of the PDS in which the package's DBRM is a member or source of the package Source: SYSIBM.SYSPACKAGE.PDSNAME	
LOCATION (Packages)	1, 2, 4	Location name Source: SYSIBM.SYSPACKAGE.LOCATION	

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
LOCATION (TBL)	1, 3	Location name of the table for an alias defined on a remote object or blank for local Source: SYSIBM.SYSTABLES.LOCATION	
LOCKMAX (TS)	1, 3	Maximum number of locks per user to acquire for the table or table space before escalating to the next locking level Source: SYSIBM.SYSTABLESPACE.LOCKMAX	
LOCKRULE	1, 3	Lock size of the table space: A Any P Page S table space T Table Source: SYSIBM.SYSTABLESPACE.LOCKRULE	
ME (Method)	1, 2	Number indicating the join method used for the step described by the row: 0 First table accessed 1 Nested loop join 2 Merge scan join 3 Sorts 4 Hybrid join E SQL error occurred on an SQL statement Source: PLAN_TABLE.METHOD	EMETH EERR EERR=Y Display only statements with errors. EERR=N Display only statements with no errors.
MIXED	1, 4	Indicates if mixed data was in effect when the program was precompiled: N No Y Yes Source: SYSIBM.SYSPACKAGE.MIXED	
MJCL	1, 2, 8	The number of columns being joined during a merge scan join. If the join method is not a merge scan or if DB2 is not at least Version 4, the value of this field is 0. Source: PLAN_TABLE.MERGE_JOIN_COLS	EMJCO
MTCL	1, 2, 8	For ACESSTYPE I, I1, N, or MX, the number of index keys used in an index scan; otherwise 0 Source: PLAN_TABLE.MATCHCOLS	EMATC
MXOP	1, 2	Number indicating the sequence of steps in a multiple index operation Source: PLAN_TABLE.MIXOPSEQ	EMXOP
NACTIVE	1, 3	Number of active pages in the table space Source: SYSIBM.SYSTABLESPACE.NACTIVE	

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
NACTIVE (TSTP)	1, 3	Number of active pages in the partition Source: SYSIBM.SYSTABSTATS.NACTIVE	
NDX=	1, 8	Name of index. Displayed only if the source is nonblank Source: PLAN_TABLE.ACCESSCREATOR Source: PLAN_TABLE.ACCESSNAME	
NEARINDREF	1, 3	Number of rows that have been relocated near their original page Source: SYSIBM.SYSTABLEPART.NEARINDREF	
NEAROFFPOS	1, 3	Number of referred to rows near, but not at, optimal position as the result of an insert into a full page Source: SYSIBM.SYSINDEXPART.NEAROFFPOS	
NLEAF	1, 3	Number of active leaf pages in the index Source: SYSIBM.SYSINDEXES.NLEAF	
NLEAF (IXP)	1, 3	Number of active leaf pages in the index partition Source: SYSIBM.SYSINDEXSTATS.NLEAF	
NLEVELS (IXP)	1, 3	Number of active levels in the partition index tree Source: SYSIBM.SYSINDEXSTATS.NLEVELS	
NPAGES	1, 3	Total number of pages on which rows of the table appear Source: SYSIBM.SYSTABLES.NPAGES	
NPAGES (TSTP)	1, 3	Number of pages in the partition on which rows of the table appear Source: SYSIBM.SYSTABSTATS.NPAGES	
NTABLES	1, 3	Number of tables defined in the table space Source: SYSIBM.SYSTABLESPACE.NTABLES	
OBID (IX)	1, 3	Internal identifier of the set descriptor of the index fan Source: SYSIBM.SYSINDEXES.OBID	
OBID (TBL)	1, 3	Internal identifier of the table Source: SYSIBM.SYSTABLES.OBID	
OBID (TS)	1, 3	Internal identifier of the file descriptor for the table space Source: SYSIBM.SYSTABLESPACE.OBID	
OPERATIVE (Packages)	1, 4	Indicates whether the package can be allocated: Y Yes N No. An explicit BIND or REBIND is required first Source: SYSIBM.SYSPACKAGE.OPERATIVE	

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
OPERATIVE (Plans)	1, 4	Indicates whether the plan is operative: Y Yes N No. An explicit BIND or REBIND is required first Source: SYSIBM.SYSPLAN.OPERATIVE	
OWNER	1, 4	Authorization ID of the package owner Source: SYSIBM.SYSPACKAGE.OWNER	
P M	1, 2, 8	The kind of parallelism that is used at bind time (if any). At execution time, I/O and CPU parallelism can be converted to sequential processing. However, I/O parallelism cannot be converted to CPU parallelism and vice versa. I Query I/O parallelism C Query CPU parallelism blank No parallelism Source: PLAN_TABLE.PARALLELISM_MODE	EPMOD
P R=	1, 8	Page range Source: SYSIBM.PLAN_TABLE.PAGE_RANGE	EPRAN
PACKAGE	1, 4	Package ID Source: SYSIBM.SYSPACKAGE.NAME	
PAGESAVE (TSTP)	1, 3	Percentage of pages saved in the table space or partition as the result of using compression Source: SYSIBM.SYSTABLEPART.PAGESAVE	
PARNT	1, 3	Number of relationships in which the table is a dependent; 0 means the row describes a view or alias. Source: SYSIBM.SYSTABLES.PARENTS	
PARTITION (IXP)	1, 3	Partition number; 0 if index is not partitioned Source: SYSIBM.SYSINDEXPART.PARTITION	
PARTITION (TSTP)	1, 3	Partition number; 0 if table space is not partitioned. Source: SYSIBM.SYSTABLEPART.PARTITION	
PARTITIONS	1, 3	Number of partitions of the table space; 0 if the table space is not partitioned Source: SYSIBM.SYSTABLESPACE.PARTITIONS	
PCTFREE (IXP)	1, 3	Percentage of each subpage or nonleaf page that is left as free space Source: SYSIBM.SYSINDEXPART.PCTFREE	
PCTFREE (TSTP)	1, 3	Percentage of each page left as free space Source: SYSIBM.SYSTABLEPART.PCTFREE	

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
PCTROWCOMP (TBL)	1, 3	Percentage of rows compressed within the total number of active rows of the table Source: SYSIBM.SYSTABLES.PCTROWCOMP	
PCTROWCOMP (TSTP)	1, 3	Percentage of rows compressed within the total number of active rows of the partition Source: SYSIBM.SYSTABSTATS.PCTROWCOMP	
PCTPAGES (TSTP)	1, 3	Percentage of total active pages in the partition that contain rows of the table Source: SYSIBM.SYSTABSTATS.PCTPAGES	
PERCACT	1, 3	Percentage of space occupied by rows of data from active tables Source: SYSIBM.SYSTABLEPART.PERCACTIVE	
PERCDROP	1, 3	Percentage of space occupied by rows of dropped tables; 0 for segmented table spaces Source: SYSIBM.SYSTABLEPART.PERCDROP	
PF (Prefetch)	1, 2	Character indicating whether data pages were read in advance by PREFETCH: S pure sequential PREFETCH L PREFETCH through a page list blank unknown or no prefetch Source: PLAN_TABLE.PREFETCH	EPREF
PGSIZE (IX)	1, 3	Size of subpages in the index Source: SYSIBM.SYSINDEXES.PGSIZE	
PGSIZE (TS)	1, 3	Size, in kilobytes, of pages in the table spaces Source: SYSIBM.SYSTABLESPACE.PGSIZE	
PKSIZE	1, 4	Size, in bytes, of the base section of the package Source: SYSIBM.SYSPACKAGE.PKSIZE	
PLAN	1, 2, 3, 4, 5	Name of the application plan. The list is in alphabetical order. Source: SYSIBM.SYSPLAN.NAME	EPLN
PLAN FREED?	1, 4	Has plan been FREEd? Y Yes N No Source: Derived	
PLAN SIZE	1, 4	Size measured in bytes of the base section of the plan Source: SYSIBM.SYSPLAN.PLSIZE	

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
PLENTRIES	1, 4	Number of package list entries for the plan. This number displays as a negative number if there are rows for the plan but the plan was bound in a prior release after fall back. Source: SYSIBM.SYSPLAN.PLENTRIES	
PLN NO.	1, 2	Number identifying the step in which the query indicated in QBLOCKNO was processed Source: PLAN_TABLE.PLANNO	EPLNO
PQTY (IXP)	1, 3	Primary space allocation in units of 4K storage blocks; 0 if storage group is not used Source: SYSIBM.SYSINDEXPART.PQTY	
PQTY (TSTP)	1, 3	Primary space allocation in units of 4K storage blocks; 0 if a storage group is not used Source: SYSIBM.SYSTABLEPART.PQTY	
PRECOMPILE TIME	1, 3, 4, 5	Date and time the application program was precompiled Source: SYSIBM.SYSPACKAGE.PCTIMESTAMP	
PSID	1, 3	Internal identifier of the set descriptor for the table space page Source: SYSIBM.SYSTABLESPACE.PSID	
QBNO (Query Block Number)	1, 2	Number identifying the query or subquery for the row Source: PLAN_TABLE.QBLOCKNO	EQBNO
QUALIFIER (Packages)	1, 4	Implicit qualifier for the unqualified table, view, index, and alias names in the static SQL statements of the package Source: SYSIBM.SYSPACKAGE.QUALIFIER	
QUALIFIER (Plans)	1, 4	Implicit qualifier for the unqualified table, view, index, and alias names in the static SQL statements of the plan Source: SYSIBM.SYSPLAN.QUALIFIER	

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
QUERY TEXT	1, 4	<p>For each SQL query block, identifies the type of SQL operation performed. For the outermost query, it identifies statement type Valid values include:</p> <p>SELECT Select operation INSERT Insert operation UPDATE Update operation SELUPD Select with FOR UPDATE OF operation DELCUR Delete WHERE CURRENT OF CURSOR operation UPDCUR Update WHERE CURRENT OF CURSOR operation CORSUB Correlated subquery operation NCOSUB Non-correlated subquery operation</p> <p>Source: PLAN_TABLE.QBLOCK_TYPE</p>	
QUOTE	1, 4	<p>SQL string delimiter for the SQL statements in the package:</p> <p>N Apostrophe Y Quotation mark</p> <p>Source: SYSIBM.SYSPACKAGE.QUOTE</p>	
RBA1 (TBL)	1, 3	<p>Log RBA when the table was created</p> <p>Source: SYSIBM.SYSTABLES.RBA2</p>	
RBA2 (TBL)	1, 3	<p>Log RBA when the table was last altered. If the table has not been altered, RBA1=RBA2.</p> <p>Source: SYSIBM.SYSTABLES.RBA2</p>	
RECLEN	1, 3	<p>Maximum length of any record in the table</p> <p>Source: SYSIBM.SYSTABLES.RECLENGTH</p>	
RELEASE (Packages)	1, 4	<p>Indicates when resources are released:</p> <p>C At commit D At deallocation</p> <p>Source: SYSIBM.SYSPACKAGE.RELEASE</p>	
RELEASE (Plans)	1, 4	<p>Indicates when resources are released:</p> <p>C At commit D At deallocation</p> <p>Source: SYSIBM.SYSPLAN.RELEASE</p>	
REMOTE	1, 4	<p>Indicates the source of the package:</p> <p>C Package was created by BIND COPY N Package was locally bound by a DBRM Y Package was bound from a remote location</p> <p>Source: SYSIBM.SYSPACKAGE.REMOTE</p>	

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
REOPT(VAR)(Packages)	1, 4	Indicates the REOPT option when the package was bound or rebound. Y Determines access path at execution time for SQL statements with variable values N Determines access path at bind time Source: SYSPACKAGE.REOPTVAR	
REOPT(VAR)(Plans)	1, 4	Indicates the REOPT option when the package was bound or rebound. Y Determines access path at execution time for SQL statements with variable values N Determines access path at bind time Source: SYSPLAN.REOPTVAR	
SEGSIZE	1, 3	Number of pages in each segment of a segmented table space Source: SYSIBM.SYSTABLESPACE.SEGSIZE	
SERVER	1, 4	Location name specified with the CURRENTSERVER option when the plan was last bound; blank if none was specified Source: SYSIBM.SYSPLAN.CURRENTSERVER	
SPACE (IX)	1, 3	Number of kilobytes of DASD storage allocated to the index, as determined by the last execution of STOSPACE utility Source: SYSIBM.SYSINDEXES.SPACE	
SPACE (IXP)	1, 3	Number of kilobytes of DASD storage allocated to the partitioned index as determined by the last execution of the STOSPACE utility Source: SYSIBM.SYSINDEXPART.SPACE	
SPACE (TS)	1, 3	Number of kilobytes of DASD storage allocated to the table space as determined by the last execution of the STOSPACE utility Source: SYSIBM.SYSTABLESPACE.SPACE	
SPACE (TSTP)	1, 3	Number of kilobytes of DASD storage allocated to the partitioned table space as determined by the last execution of the STOSPACE utility Source: SYSIBM.SYSTABLEPART.SPACE	
SQL TEXT	5	SQL text of the statement Source: SYSIBM.SYSSTMT.TEXT Source: SYSIBM.SYSPACKSTMT.STMT	
SQLCODE/ SQLSTATE	9	Contains either the SQLCODE or the SQLSTATE depending on the value you have specified on the EXPLAIN/SQL Defaults Housekeeping panel (KTEPHOMI).	

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
SQLERR	1, 4	Indicates the SQLERROR option on the most recent BIND: C Option was CONTINUE N Option was NOPACKAGE Source: SYSIBM.SYSPACKAGE.SQLERROR	
SQLRULES	2	The SQLRULES option used when the Plan was bound Source: SYSIBM.SYSPLAN.SQLRULES	
SQTY (IXP)	1, 3	Secondary space allocation in units of 4K storage blocks; 0 if storage group is not used Source: SYSIBM.SYSINDEXPART.SQTY	
SQTY (TSTP)	1, 3	Secondary space allocation in units of 4K storage blocks; 0 if a storage group is not used Source: SYSIBM.SYSTABLEPART.SQTY	
SRC G (Sort Composite Table - Group by)	1, 2	Indicates whether a sort is performed due to a group by: Y Yes N No Source: PLAN_TABLE.SORTC_GROUPBY	ESRCG
SRC ID	1, 2, 8	Parallel group identifier for the parallel sort of the composite table; 0 if not applicable Source: PLAN_TABLE.SORTC_PGROUP_ID	ESCID
SRC J (Sort Composite Table - Join)	1, 2	Indicates whether a sort is performed on the composite table to remove duplicate rows due to join method 2 or 4: Y Yes N No Source: PLAN_TABLE.SORTC_JOIN	ESRCJ
SRC O (Sort Composite Table - Order by)	1, 2	Indicates whether a sort is performed due to order by or quantified predicate: Y Yes N No Source: PLAN_TABLE.SORTC_ORDERBY	ESRCO
SRC U (Sort Composite Table - Unique)	1, 2	Indicates whether a sort is performed on the composite table to remove duplicate rows: Y Yes N No Source: PLAN_TABLE.SORTC_UNIQ	ESRCU

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
SRN G (Sort New Table - Group by)	1, 2	Indicates whether a sort is performed due to a group by clause: Y Yes N No Source: PLAN_TABLE.SORTC_GROUPBY	ESRNG
SRN ID	1, 2, 8	Parallel group identifier for the parallel sort of a new table; 0 if not applicable Source: PLAN_TABLE.SORTN_PGROUP_ID	ESNID
SRN J (Sort New Table - Join)	1, 2	Indicates whether a sort is performed on the new table if join method is 2 or 4: Y Yes N No Source: PLAN_TABLE.SORTC_JOIN	ESRNJ
SRN O (Sort New Table - Order by)	1, 2	Indicates whether a sort is performed on a new table due to an order by clause: Y Yes N No Source: PLAN_TABLE.SORTC_ORDERBY	ESRNO
SRN U (Sort New Table - Unique)	1, 2	Indicates whether a sort is performed on the new table to remove duplicate rows: Y Yes N No Source: PLAN_TABLE.SORTC_UNIQ	ESRNU
STATEMENT COST	1, 6, 8, 9	Statement cost. If the statement cost field is suffixed with an asterisk, it indicates that the statement cost may be in error as the result of a column being compared to a host variable or literal of a different type of length. You can filter for this condition using filter ETCMI. For an explanation of filter ETCMI, see the information provided under <i>cost field discrepancy identifier</i> earlier in this list of fields. Source: Derived	ETCST
STATEMENT TYPE	9	Statement type Source: Derived	

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
STATUS (TBL)	1, 3	Status of the table definition: I The table's definition is incomplete because it lacks a primary index X Table has a primary index blank Table has no primary key, or is a catalog table, or the row describes a view or alias Source: SYSIBM.SYSTABLES.STATUS	
STATUS (TS)	1, 3	Availability status of the table space: A Available C Incomplete because no partitioned index has been created P Check Pending S Check Pending with the scope less than the entire table space T Incomplete because no table has been created Source: SYSIBM.SYSTABLESPACE.STATUS	
STATSTS (IX)	1, 3	Date and time when the last invocation of RUNSTATS updated the statistics Source: SYSIBM.SYSINDEXES.STATSTIME	
STATSTS (IXP)	1, 3	Date and time when the last invocation of RUNSTATS updated the statistics Source: SYSIBM.SYSINDEXPART.STATSTIME	
STATSTS (TBL)	1, 3	Date and time when the last invocation of RUNSTATS updated the statistics Source: SYSIBM.SYSTABLES.STATSTIME	
STATSTS (TS)	1, 3	Date and time when the last invocation of RUNSTATS updated the statistics Source: SYSIBM.SYSTABLESPACE.STATSTIME	
STATSTS (TSTP)	1, 3	Date and time when the last invocation of RUNSTATS updated the statistics Source: SYSIBM.SYSTABLEPART.STATSTIME	
STATSTSP (IXP)	1, 3	Date and time when the last invocation of RUNSTATS updated the statistics Source: SYSIBM.SYSINDEXSTATS.STATSTIME	
STATSTSP (TSTP)	1, 3	Date and time when the last invocation of RUNSTATS updated the statistics Source: SYSIBM.SYSTABLESTATS.STATSTIME	
STMT COST	1, 6, 8, 9	Statement cost Source: Derived	ETCST
STMT NO	2, 9	Statement number Source: SYSIBM.SYSSTMT.STMTNO Source: SYSIBM.SYSPACKSTMT.STMTNO	EORNO EQYNO

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
STORNAME (IXP)	1, 3	Name of storage group or ICF catalog used for space allocation Source: SYSIBM.SYSINDEXPART.STORNAME	
STORNAME (TSTP)	1, 3	Name of storage group used for allocation; blank if STORTYPE = E Source: SYSIBM.SYSTABLEPART.STORNAME	
STORTYPE (IXP)	1, 3	Type of storage allocation: E Explicit and STORNAME names an ICF catalog I Implicit and STORNAME names a storage group Source: SYSIBM.SYSINDEXPART.STORTYPE	
STORTYPE (TSTP)	1, 3	Type of storage allocation: E Explicit (storage group is not used) I Implicit (storage group used) Source: SYSIBM.SYSTABLEPART.STORTYPE	
SUBPAG=	1, 3	Number of subpages in the index Source: SYSIBM.SYSINDEXES.PGSIZE.	
SYSENTRIES (Packages)	1, 4	Number of enabled or disabled entries for this package in SYSIBM.SYSPKSYSTEM Source: SYSIBM.SYSPACKAGE.SYSENTRIES	
SYSENTRIES (Plans)	1, 4	Number of connections (rows in SYSIBM.SYSPLSYSTEM) Source: SYSIBM.SYSPLAN.SYSENTRIES	
TABNO=	8	Position of the FROM clause table referred to for the row. Source: SYSIBM.PLAN_TABLE.TABNO	
TBCREATR	1, 3	For an alias, the authorization ID of the owner of the referred table or view; otherwise, blank Source: SYSIBM.SYSTABLES.TBCREATOR	
TBL	1, 3	Name of table Source: SYSIBM.SYSTABLES.CREATOR Source: SYSIBM.SYSTABLES.NAME Source: PLAN_TABLE.CREATOR Source: PLAN_TABLE.TNAME	ETBL
TBL=	1, 8	Name of table; displayed only if the source is nonblank Source: PLAN_TABLE.CREATOR Source: PLAN_TABLE.TNAME	

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
TBNAME	1, 3	For an alias, the name of the referred table or view; otherwise, blank Source: SYSIBM.SYSTABLES.TBNAME	
TS	1, 3	Name of table space Source: SYSIBM.SYSTABLESPACE.DBNAME Source: SYSIBM.SYSTABLESPACE.NAME	
TSTP	1, 3	Partitioned table space name Source: SYSIBM.SYSTABLEPART.DBNAME Source: SYSIBM.SYSTABLEPART.TSNAME	
TYPE	1, 3	Type of object: A Alias T Table V View Source: SYSIBM.SYSTABLES.TYPE	
UNIQUE	1, 3	Indicates whether the index is unique: D No (Duplicates are allowed) U Yes P Primary key (Unique) Source: SYSIBM.SYSINDEXES.UNIQUERULE	
VALID (Packages)	1, 4	Indicates whether the package is valid: Y Yes N No A A table has been altered but package is still valid H A table has been altered, but package is still valid if using DB2 Version 5.1 or greater Source: SYSIBM.SYSPACKAGE.VALID	
VALID (Plans)	1, 4	Indicates whether the plan is valid: Y Yes N No A Table or table space altered--no rebinding needed H A table has been altered, but plan is still valid if using DB2 Version 5.1 or greater Source: SYSIBM.SYSPLAN.VALID	

EXPLAIN

FIELD	ON FORMAT...	DESCRIPTION	FILTERS
VALIDATE (Packages)	1, 4	Indicates whether validity checking can be deferred until run time B All checking must be done at BIND R Validation is done at run time for tables that do not exist at BIND time Source: SYSIBM.SYSPACKAGE.VALIDATE	
VALIDATE (Plans)	1, 4	Indicates whether validity checking can be deferred until run time B all checking must be done at BIND R checking is differred if tables, views or privileges do not exist at BIND time. Source: SYSIBM.SYSPLAN.VALIDATE	
VALPROC	1, 3	Name of the validation procedure; blank if the row describes a view or alias, or a table without a validation procedure Source: SYSIBM.SYSTABLES.VALPROC	
VCATNAME (IXP)	1, 3	Name of ICF catalog used for space allocation Source: SYSIBM.SYSINDEXPART.VCATNAME	
VCATNAME (TSTP)	1, 3	Name of ICF catalog used for space allocation Source: SYSIBM.SYSTABLEPART.VCATNAME	
VERSION (DBRM or Packages)	1, 2, 4	Version identifier for the DBRM or package Source: SYSIBM.SYSDBRM.VERSION Source: SYSIBM.SYSPACKAGE.VERSION	
WO	1, 2, 4	Indicates when the access path was determined. Valid values include: R At run time Blank At bind time Source: PLAN_TABLE.WHEN_OPTIMIZE	

Commands

The following commands are available on this panel:

COMMAND	DESCRIPTION
EALL	Include EBIND, ECOST, EOBJ, EPATH, EPTBL, ERECM and ESTMT sections on the EXPLAIN Format 0 display.
EBIND	Include EBIND section on the EXPLAIN Format 0 display.
ECOST	Include ECOST section on the EXPLAIN Format 0 display.
EKEYS	Include index key information on the EXPLAIN Format 0 object information display.
EOBJ	Include EOBJ section on the EXPLAIN Format 0 display.
EPATH	Include EPATH section on the EXPLAIN Format 0 display.
EPTBL	Include EPTBL section on the EXPLAIN Format 0 display.
EPTB2	Include EPTB2 section on the EXPLAIN Format 0 display.

Commands (continued)

COMMAND	DESCRIPTION
ERECM	Include ERECM section on the EXPLAIN Format 0 display.
ESTMT	Include ESTMT section on the EXPLAIN Format 0 display.
EXODS	Output EXPLAIN Display to a user PDS. The command may take the form EXODS member where member specifies the name of the member to which the EXPLAIN Display is output. If a member name is specified and that member already exists, it will be replaced unless you specify the MOD option (see “Controlling the Destination of !DB/EXPLAIN Output”) in the <i>!DB/EXPLAIN User's Guide</i> . If no member name is specified and if you have specified on Housekeeping panel KTEPHOOD that the Output Options panel is to be displayed when an EXPLAIN Display is output, then panel KTEPOUTP (Output Options) is displayed.
FIND	Find a specific character string on the display. Can be abbreviated as F. See “Format of the FIND command” later in this unit for expanded information about the FIND command.
NOVERS	Do not display version.
OUT	Generate REXX program to update catalog statistics or create SQL statements to update catalog statistics depending on the value specified for OUT statistics format on the Housekeeping panel KTEPHOMI (EXPLAIN/SQL Defaults). The command may take the form OUT member where member specifies the name of the member to which statistics are output. If a member name is specified and that member already exists, it will be replaced unless you specify the MOD option (see “Controlling the Destination of !DB/EXPLAIN Output”) in the <i>!DB/EXPLAIN User's Guide</i> . If no member name is specified and if you have specified on Housekeeping panel KTEPHOOD that the Output Options panel is to be displayed when statistics are output, then panel KTEPOUTP (Output Options) is displayed.
RESET	Reset all sections of the Format 0 display to “exclude”.
RFIND	Reexecute the last FIND command. Can be abbreviated as RF.
VERS	Display version.

Format of the FIND command

The FIND command can be abbreviated as **F**. The format of the FIND command is as follows:

FIND *string* [FIRST|LAST|NEXT|PREV] [ASIS]

This table provides information about the parameters of the FIND command. All parameters are optional unless specifically declared as required.

Format of the FIND command (continued)

Parameter	Meaning
<i>string</i> (required)	One of: <ul style="list-style-type: none"> ● A quoted or unquoted string that is to be found; can take the form: <ul style="list-style-type: none"> dirt 'dirt road' "dirt road" "Mary 's road" ● * (asterisk)—meaning find an occurrence of the last value entered for <i>string</i>.
FIRST	Find the first occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
LAST	Find the last occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
PREV	Find the previous occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
NEXT	Find the next occurrence of the string (the default) on the display. Ignore the case of any characters in the string when performing the FIND.
ASIS	Can be included with any of the above parameters and indicates that the string is to be found as entered; that is, the case of the characters in the string should match the case of the characters in the 'found' string.

EXPLAIN Compare

Overview

This unit describes the EXPLAIN Compare panel.

Background about the EXPLAIN Compare panel

The EXPLAIN Compare panel (KTEPCMPR) performs either of the following actions:

- Compares the results from the latest EXPLAIN of a selected plan with results obtained from executing a BIND EXPLAIN(YES) on the plan. Housekeeping's BIND Compare panel (KTEPHOBC) controls how the compares are done.
- When invoked from the Explain History panel or as the result of compares of plans, packages, or DBRMs caused by issuing CEXPL on the Compare History panel, compares the two latest EXPLAINs. Housekeeping's Compare Options panel (KTEPHOCO) controls how the compares are done.

The EXPLAIN Compare panel (KTEPCMPR) shows all access path information.

The access path for a !DB/EXPLAIN EXPLAIN of a plan may differ from the access path obtained from a BIND EXPLAIN(YES) on the plan. The difference occurs because each works differently.

- When !DB/EXPLAIN performs an EXPLAIN, each host variable is replaced by a parameter marker. Parameter markers imply that the corresponding host variable will have the same data type and length as the associated column. In this way, the EXPLAIN returns the *optimal* access path for a statement.
- When a BIND EXPLAIN(YES) is performed, host variable type conversion may occur and be accounted for. Thus, the BIND EXPLAIN(YES) returns the *actual* access path for each statement.

You can view text describing the differences by entering the EDIFF command. The DIFF command resets the display.

Compare processing

The following summarizes the Compare processing that occurs

- If invoking Compare from plans, packages, or DBRMS (BIND COMPARE):
 - The EXPLAIN History is checked to verify that a latest EXPLAIN exists.
 - Libraries are validated.
 - If any condition exists that may affect the results of the pending BIND, the EXPLAIN Compare Warning panel display.
 - If no validation errors or warnings exist, the COMPARE Processing panel displays. This panel warns of possible delays resulting from executing a BIND statement.
 - A BIND EXPLAIN(YES) is performed. A dummy plan or package is created.
 - If the BIND is successful, the EXPLAIN Compare panel appears.
- If invoking Compare from EXPLAIN History:
 - Choose two EXPLAIN Histories with select **C**.
 - The EXPLAINS are compared.
 - The EXPLAIN Compare panel appears.
- If invoking Compare from Compare History as the result of the issuance of a CEXPL command, the current object is compared with the historical object and any differences in access path information are displayed on this EXPLAIN Compare panel.

Access

You can access this panel in three ways:

- Select an item to compare from the Plans, Packages, or DBRMs panels. A dummy plan is bound with EXPLAIN(YES) and the results are compared to the selected plan, package, or DBRM.
- Select two items to compare from the EXPLAIN History display. The differences between the two EXPLAINs are shown on the EXPLAIN Compare panel.
- Issue the command CEXPL from the Compare History panel. Differences in the EXPLAIN of the compared objects are displayed on this panel.

You are returned to the invoking panel when you exit EXPLAIN Compare.

Panels

The following illustration shows the EXPLAIN Compare panel.

```

----- DB/EXPLAIN DB2=D42B ----- LINE 1 OF 10
Cmd ==>                                SCROLL ==> PAGE
                C O M P A R E   E X P L A I N S
          Cmds: DO (Menu) GLOBAL (Menu)
-----
STMT QB  MX E J P AC I  MT MJ P  ACCESS  JOIN  SRN SRC SRN SRC      P F W
NO. NO.  OP M T R CS X  CL CL M  DG  ID  DG ID  ID  ID UJOGUJOG LCK F N O
-----
PACKAGE: DSNHYCRD      COLLID: DSNHYCRD      EXPLAINED: 1999/12/09 06:53:19
VERSION: V500
PACKAGE: DSNHYCRD      COLLID: DSNHYCRD      EXPLAINED: 1999/12/03 14:37:09
VERSION: V500

   204  1  0  E  0      I  N  2  0  0  0  NNNNNNNN IS
        TBL=SYSIBM.SYSTABLES          NDX=SYSIBM.DSNDTX01
                                       STMT COST=          52.8
                                       Query Type=SELECT
   204  1  0  E  0  0  M  2  0  0  0  0  0  0  0  NNNNNNNN IS
        TBL=SYSIBM.SYSTABLES          NDX=SYSIBM.DSNDTX01
                                       NDX=SYSIBM.DSNDTX01
                                       STMT COST=          52.8
                                       Query Type=SELECT
  1051  1  0  E  0  0  M  2  0  0  0  0  0  0  0  NNNNNNNN IS L
        TBL=SYSIBM.SYSTABLES          NDX=SYSIBM.DSNDTX01
                                       NDX=SYSIBM.DSNVVX01
                                       STMT COST=        1,419.5
                                       Query Type=SELECT

```

Panels (continued)

The following illustration shows the EXPLAIN Compare Warning panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE

                                W A R N I N G S

Press END to ignore warnings and proceed with COMPARE processing.
Press ENTER to terminate COMPARE processing.

Warnings denoted with an X are in effect

      X      One or more DBRM libraries have been migrated.

      X      One or more DBRM libraries have been migrated and
      X      an HRECALL request has been issued.

      X      The timestamp associated with the DBRM in the
      X      catalog extract does not match the timestamp
      X      in the DB2 DBRM.

```

The following illustration shows the EXPLAN Compare Processing panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

                                C O M P A R E   P R O C E S S I N G

COMPARE processing involves the execution of a BIND statement for the
selected Plan or Package. The time required for this process is dependent
on the size of your DB2 system, the number of DB2 users, and overall
system load.

ENTER to process COMPARE request      END to abort COMPARE request

```

Fields

FIELDS	DESCRIPTION
ACC DEG	Number of parallel I/O streams activated by a query. Source: PLAN_TABLE.ACCESS_DEGREE
ACC PID	Identifier of the parallel group. Source: PLAN_TABLE.ACCESS_PGROUP_ID
ACCS (Access)	Method of accessing the new table: I By an index II One-fetch index scan N Index scan when predicate contains IN keyword R table space scan MX By a multiple index scan on the index named in ACCESSNAME MI By an intersection of multiple indexes MU By a union of multiple indexes blank Not applicable to the current row Source: PLAN_TABLE.ACCESTYPE
COLLECTION	Collection ID. Source: PLAN_TABLE.COLLID
CORR=	Correlation name of a table or view that is specified in the statement. If no correlation name is specified or if the DB2 subsystem is not at least Version 4, the field is blank. Source: PLAN_TABLE.CORRELATION_NAME
DBRM or PACKAGE NAME	DBRM or package name. Source: PLAN_TABLE.PROGNAME
EM (EXPLAIN METHOD)	Type of EXPLAIN performed: W Whatif B Bind Compare E EXPLAIN P PLAN_TABLE extract * Error occurred during the EXPLAIN Source: Derived
EXPLAIN DATE/TIME	EXPLAIN timestamp. Source: PLAN_TABLE.TIMESTAMP
EXPLAIN DIFFERENCES	Text describing the differences in the EXPLAINS. Source: Derived
FN (Function)	A character that indicates when an SQL column function was evaluated. R At data retrieval time S At sort time blank To be decided at run time Source: PLAN_TABLE.COLUMN_FN_EVAL

FIELDS	DESCRIPTION
INDEXNAME	For ACESSTYPE I, I1, N, or MX, the name of the index; otherwise blank. Source: PLAN_TABLE.ACCESSNAME
IX (Index Only)	Indicates whether access to an index alone is enough to satisfy the query: Y Yes N No Source: PLAN_TABLE.INDEXONLY
J T=	Join type Source: SYSIBM.PLAN_TABLE.JOIN_TYPE
JOI DEG	The number of parallel I/O streams used to join tables. Source: PLAN_TABLE.JOIN_DEGREE
JOI PID	The identifier of the parallel group used to join tables. Source: PLAN_TABLE.JOIN_PGROUP_ID
LCK	Lock mode of the table space that contains the new table: IS Intent Share IX Intent Exclusive S Share X Exclusive SIX Share with intent exclusive U Update Source: PLAN_TABLE.TSLOCKMODE
ME (Method)	A number that indicates the join method used for the step described by the row: 0 First table accessed 1 Nested loop join 2 Merge scan join 3 Sorts 4 Hybrid join Source: PLAN_TABLE.METHOD
MJCL	The number of columns being joined during a merge scan join. If the join method is not a merge scan or if DB2 is not at least Version 4, the value of this field is 0. Source: PLAN_TABLE.MERGE_JOIN_COLS
MTCL	For ACESSTYPE I, I1, N, or MX, the number of index keys used in an index scan; otherwise 0. Source: PLAN_TABLE.MATCHCOLS
MXOP	Number indicating the sequence of steps in a multiple index operation. Source: PLAN_TABLE.MIXOPSEQ

EXPLAIN Compare

FIELDS	DESCRIPTION
(NAME heading)	Variable field that describes the type of data displayed in the column below it. DBRM PACKAGE Source: PLAN_TABLE.PROGNAME
P M	The kind of parallelism that is used at bind time (if any). At execution time, I/O and CPU parallelism can be converted to sequential processing. However, I/O parallelism cannot be converted to CPU parallelism and vice versa. I Query I/O parallelism C Query CPU parallelism blank No parallelism Source: PLAN_TABLE.PARALLELISM_MODE
P R=	Page range Source: SYSIBM.PLAN_TABLE.PAGE_RANGE
PF (PREFETCH)	Character that indicates whether data pages were read in advance by PREFETCH: S pure sequential PREFETCH L PREFETCH through a page list blank unknown or no PREFETCH Source: PLAN_TABLE.PREFETCH
PLAN NAME	Plan name. Source: SYSIBM.SYSSTMT.PLNAME Source: SYSIBM.SYSPACKSTMT.NAME
QBNO (Query Block Number)	Number that identifies the query or subquery for the row. Source: PLAN_TABLE.QBLOCKNO
QUERYNO	Number that identifies the statement being EXPLAINed. Source: PLAN_TABLE.QUERYNO

FIELDS	DESCRIPTION
QUERY TYPE	<p>For each SQL query block, identifies the type of SQL operation performed. Valid values include:</p> <p>SELECT Select operation</p> <p>INSERT Insert operation</p> <p>UPDATE Update operation</p> <p>DELETE Delete operation</p> <p>SELUPD Select with FOR UPDATE OF operation</p> <p>DELCUR Delete WHERE CURRENT OF CURSOR operation</p> <p>UPDCUR Update WHERE CURRENT OF CURSOR operation</p> <p>CORSUB Correlated subquery operation</p> <p>NCOSUB Non-correlated subquery operation</p> <p>Source: PLAN_TABLE.QBLOCK_TYPE</p>
SRC G (Sorts - Group By, Composite Table)	<p>Indicates whether a GROUP BY clause results in a sort on the composite table:</p> <p>Y Yes N No</p> <p>Source: PLAN_TABLE.SORTC_GROUPBY</p>
SRC ID	<p>Parallel group identifier for the parallel sort of the composite table; 0 if not applicable</p> <p>Source: PLAN_TABLE.SORTC_PGROUP_ID</p>
SRC J (Sort - Join, Composite Table)	<p>Whether a sort is performed on the composite table if METHOD is 2 or 4.</p> <p>Y Yes N No</p> <p>Source: PLAN_TABLE.SORTC_JOIN</p>
SRC O (Sort - Order By, Composite Table)	<p>Whether an ORDER BY clause or a quantified predicate results in a sort on the composite table.</p> <p>Y Yes N No</p> <p>Source: PLAN_TABLE.SORTC_ORDERBY</p>
SRC U (Sort - Unique, Composite Table)	<p>Whether a sort is performed on the composite table to remove duplicate rows.</p> <p>Y Yes N No</p> <p>Source: PLAN_TABLE.SORTC_UNIQ</p>

EXPLAIN Compare

FIELDS	DESCRIPTION
SRN G (Sorts - Group By, New Table)	Whether a GROUP BY clause results in a sort on the new table. Source: PLAN_TABLE.SORTN_GROUPBY
SRN ID	Parallel group identifier for the parallel sort of a new table; 0 if not applicable Source: PLAN_TABLE.SORTN_PGROUP_ID
SRN J (Sort - Join, New Table)	Whether a sort is performed on the new table if METHOD is 2 or 4. Y Yes N No Source: PLAN_TABLE.SORTN_JOIN
SRN O (Sort - Order By, New Table)	Whether an ORDER BY clause results in a sort on the new table. Source: PLAN_TABLE.SORTN_ORDERBY
SRN U (Sort - Unique, New Table)	Whether a sort is performed on the new table to remove duplicate rows. Y Yes N No Source: PLAN_TABLE.SORTN_UNIQ
STMT COST	Statement cost Source: Derived
STMT NO.	Statement number. Source: SYSIBM.SYSSTMT.STMTNO Source: SYSIBM.SYSPACKSTMT.STMTNO
VERSION	Version identifier for the DBRM or package. Source: PLAN_TABLE.VERSION
WO	Indicates when the access path was determined. Valid values include: R At run time (execution) Blank At bind time Source: PLAN_TABLE.WHEN_OPTIMIZE

Commands

The following commands are available on the EXPLAIN Compare panel:

COMMAND	DESCRIPTION
EDIFF	Describes all the differences in access path between the two EXPLAINs.
DIFF	Reset the effect of the EDIFF command.

EXPLAIN History

Overview

This unit describes the EXPLAIN History panel.

Background about the EXPLAIN History panel

The EXPLAIN History panel lists the historical EXPLAINS for a specific DBRM or all the DBRMs in a plan or package. The EXPLAIN History retains only those EXPLAINS that were performed with !DB/EXPLAIN's EXPLAIN plan, DBRMs, or packages, or with a PLAN_TABLE Extract.

EXPLAIN history is retained until you ask for it to be deleted on the panel or on an extract PLAN_TABLE purge. You must have extract PLAN_TABLE purge (EPP) authority to delete history online.

Formats

This panel is available in two formats.

Format	Displayed Fields
Format 1	Name, Precompile Date/Time, EXPLAIN Date/Time, Cost
Format 2	Name, EXPLAIN Date/Time, Error, Type, DB2VRM, Cost

Access

The panel is invoked by using the **H** (EXPLAIN History) select or issuing the **LEHIST** command from the Plans, DBRMs, or Packages panels.

Panels

This panel shows format 1 of the EXPLAIN History panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE
                E X P L A I N   H I S T O R Y
  Cnds: DO  GLOBAL                               Selects: ?
-----
S DBRM/  -----PRECOMPILE----- EXPLAIN----- TOTAL
L PACKAGE DATE                TIME DATE                TIME  STMT COST
-----
- DSddb2UP 1999/02/23 04:42:08.610000 1999/12/15 08:54:02.590000      8.8
  VERSION:
- DSddb2UP 1999/02/23 04:42:08.610000 1999/12/13 15:29:53.680000      8.8
  VERSION:
- DSdSQL01 1998/10/25 01:12:43.950000 1999/12/15 08:54:02.590000      0.3
  VERSION:
- DSdSQL01 1998/10/25 01:12:43.950000 1999/12/13 15:29:53.680000      0.3
  VERSION:
***** BOTTOM OF LIST *****

```

This panel shows format 2 of the EXPLAIN History panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE
                E X P L A I N   H I S T O R Y
  Cnds: DO (Menu) GLOBAL (Menu)                               Selects: ? (Menu)
-----
S DBRM/  -----EXPLAIN-----
L PACKAGE DATE                TIME ERROR TYPE DB2VRM  TOTAL
-----
- DSddb2UP 1999/12/15 08:54:02.590000  Y  GEXPL  310      8.8
- DSddb2UP 1999/12/13 15:29:53.680000  Y  EXPL   310      8.8
- DSdSQL01 1999/12/15 08:54:02.590000  N  GEXPL  310      0.3
- DSdSQL01 1999/12/13 15:29:53.680000  N  EXPL   310      0.3
***** BOTTOM OF LIST *****

```

Panels (continued)

The Delete selection displays the History Delete Confirmation panel, shown below. This selection deletes all historical EXPLAINS currently displayed.

```
----- DB/EXPLAIN DB2=D31A -----  
Cmd ==>  
  
                HISTORY DELETE CONFIRMATION  
  
You have requested to delete EXPLAIN History.  Once deleted, the EXPLAIN  
History can not be retrieved.  
  
Press ENTER to delete EXPLAIN History.  Press END to cancel the request.
```

Fields and Associated Sorts and Filters

The following table is an alphabetical listing of fields in all the EXPLAIN History panel formats.

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
DB2VRM	2	DB2 Version and Release under which the EXPLAIN occurred; if extracted the version and release of DB2 at the time of the extract. Source: Derived	HDVER
ERROR	2	Indicates that an error (SQL error, parser error, etc.) occurred during EXPLAIN processing. Y Yes N No Source: Derived	HERR
EXPLAIN DATE/TIME	1, 2	Date this DBRM or package was last EXPLAINed. Source: PLAN_TABLE	HEXDT
(NAME Heading) • DBRM • PACKAGE	1, 2	Variable field describing the type of data displayed in the column below it.	HNAME HDBRM
PRECOMPILE DATE/TIME	1	Date the DBRM or package was precompiled. Source: SYSIBM.SYSDBRM.PRECOMPDATE PRECOMPTIME Source: SYSIBM.SYSPACKAGE.PCTIMESTAMP	HPCDT
STMT COST	1, 2	Total statement cost. Source: Derived	HTCST
TYPE	2	Type of EXPLAIN. EXPL EXPLAIN GEXPL EXPLAIN and gather statistics WHAT Whatif Analysis PTABL PLAN_TABLE Source: Derived	HETYP
VERSION	1	Version identifier for the DBRM or Package. Source: Derived	HVER

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
C	Compare two historical EXPLAINS.	EXPLAIN Compare (KTEPCMPR)
S	Display EXPLAIN.	EXPLAIN (KTEPEXPL)
Y	Delete historical EXPLAINS.	EXPLAIN History Delete Confirmation (KTEPHIDL)

Commands

COMMAND	DESCRIPTION	TAKES YOU TO...
DELETE	Delete historical EXPLAINS.	EXPLAIN History Delete Confirmation (KTEPHIDL)

Extract History

Overview

This unit describes the Extract History panel.

Background about the Extract History panel

The Extract History (KTEPXHST) panel lists historical extract information for the three extract datasets: Statements, DB2 catalog, and PLAN_TABLE.

Access

To review the historical extracts, select option 4 from the Administration Menu of !DB/EXPLAIN.

Panel

The following illustration shows the Extract History panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE
                                E X T R A C T   H I S T O R Y
CMDS: GLOBAL (MENU)                SELECTS: ? (MENU)
-----
----- EXTRACT ----- O S P T   #  CAT  OWNER PLAN/PKG  PLAN/PKG  PLAN/PKG
SEL DATE          TIME K R G Y  GNRS PTBL OWNER  OPER    MASK#1   MASK#2
-----
- 1999/04/01 13:16:55 F C X R      0 SYSIBM
  1999/04/01 13:22:08                SYSIBM
                                DESC: SUCCESSFUL TERMINATION

- 1999/04/01 13:16:55 S C X R      0 SYSIBM
  1999/04/01 13:17:01                SYSIBM
                                DESC: INITIALIZATION

***** BOTTOM OF LIST *****

```

Fields

FIELD	DESCRIPTION
CAT OWNER	DB2 Catalog Owner.
DESCRIPTION	Short description of success/failure of Extract.
EXTRACT DATE/TIME	Date and time of Extract.
OK	Indicates if the Extract was successful: Y Yes N No
PG	Indicates action for the last Extract: P Purge X Extract
PKG MASK#1	Package or mask name for comparison. The value must be a valid package name unless "LIKE" is specified as the operator, then must be a valid DB2 mask.
PKG MASK#2	Package name for comparison.
PKG OPER	Package mask operator.
PLAN MASK#1	Plan or mask name for comparison. The value must be a valid plan name unless "LIKE" is specified as the operator, then must be a valid DB2 mask.
PLAN MASK#2	Plan name for comparison.
PLAN OPER	Plan mask operator.
PTBL OWNER	PLAN_TABLE Owner.
SR	Source of the Extract: C DB2 Catalog S SYSSTMT or SYSPACKSTMT P PLAN_TABLE
TIMESTAMP	Extract timestamp used for purge.
TY	Type of Extract: I Incremental R Replace P Partial
# GNRS	Number of Extract generations to keep.

Selects

SELECT	DESCRIPTION
J	Recreate the JCL used to generate this extract.

Extract Update

Overview

This unit describes the Extract Update panel.

Background about the Extract Update panel

The Extract Update panel (KTEPXUAB) appears if you have requested to update the plan table extract file while someone else is updating the extract file. Panel options allow you to retry or cancel the update.

!DB/EXPLAIN saves all the updates to the plan table extract when you issue the XUPDT command. If you choose to cancel the update or exit !DB/EXPLAIN after making unsaved updates to the file, you will lose all updates. These updates include records generated when doing EXPL, EXPLA, GEXPL, and Whatif.

Access

The Extract Update panel is displayed automatically by !DB/EXPLAIN when you try to update the plan table extract while it is currently being updated by another user.

Panel

The following illustration shows the Extract Update panel.

```
----- DB/EXPLAIN DB2=D31A -----  
Cmd ==>  
  
          E X T R A C T   U P D A T E  
  
The plan table extract file is currently not available for update.  
Press ENTER to try the update again. Press END to cancel the update.  
  
The changes you have made to plan table information since the last XUPDT  
will be permanently lost if you choose to cancel the plan table updates.  
(All EXPLAIN results and Statistics not committed to the plan table  
extract dataset will be lost if you cancel the Extract Update.)  
  
ENTER to retry plan table update   END to cancel the plan table updates
```


Index Keys

Overview

This unit describes the Index Keys panel.

Background about the Index Keys panel

The Index Keys panel (KTEPCKEY) lists all key columns for indexes. Rows on the Index Keys panel are selectable. The Index Keys Selections panel (KTE3CKSE) allows you to display column statistics for the key columns.

Access

This panel can be accessed from the Whatif panel (KTEPWHIF) or the Estimator panel (KTEPESTM) using the **K** select.

Panels

The following illustration shows the Index Keys panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 4
CMD ==>                                SCROLL ==> CSR
                                I N D E X   K E Y S
                                C M D S : D O ( M e n u ) G L O B A L ( M e n u )          S E L E C T S : ? ( M e n u )
-----
IXNAME=DSNDCX01                    IXCREATOR=SYSIBM
SEL  COLUMN NAME                    COLUMN NO    COLUMN SEQ    ORDERING
-----
-   TBCREATOR                        1             3             A
-   TBNAME                            2             2             A
-   NAME                              3             1             A
***** BOTTOM OF LIST *****

```

```

INDEX KEY SELECTIONS

Select ==>
S. Display Column Information

```

Fields

Filtering and sorting are not available for the Index Keys function.

FIELD	DESCRIPTION
COLUMN NAME	Name of the column of the key. Source: SYSIBM.SYSKEYS.COLNAME
COLUMN NO	Numeric position of the column in the table. Source: SYSIBM.SYSKEYS.COLNO
COLUMN SEQ	Numeric position of the column in the key. Source: SYSIBM.SYSKEYS.COLSEQ
IXCREATOR	Authorization ID of the owner of the index. Source: SYSIBM.SYSKEYS.IXCREATOR
IXNAME	Name of the index. Source: SYSIBM.SYSKEYS.IXNAME
ORDERING	Order of the column in the key: A Ascending D Descending Source: SYSIBM.SYSKEYS.ORDERING

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
S	Display column information.	Table Columns (KTEPTCOL)

Libraries

Overview

This unit describes the Libraries panel.

Background about the Libraries panel

The Libraries panel (KTEPLIBR) lists all DBRM libraries defined to the DB2 system.

Formats

This panel is available in three formats.

Format	Displayed Fields
Format 1	All Libraries
Format 2	DBRM Libraries
Format 3	Package Libraries

Access

Libraries can be accessed from the Primary Menu or the Sessions Menu.

Panels

The following illustration shows format 1 of the Libraries panel—all libraries.

```

----- DB/EXPLAIN DB2=D31A -----LIBRARY 1 of 19
CMD ==>                               SCROLL ==> PAGE
                                     L I B R A R I E S
      Cnds: DO (Menu) GLOBAL (Menu)           Selects: ? (Menu)
-----
S
L DATASET NAME                               STATUS                               ALL
-----
- PP.CDB.RDB2DASD.DEMOCNTL                   NOT CATALOGED                               2
- Tddb.SCC.DBRM                               ON VOLUME OMON23                           2
- Tddb.SD2.DBRM                               ON VOLUME OMON34                           2
- TSDB08.DBT722.CNTL                         ON VOLUME OMON30                           2

```

The following illustration shows format 2 of the Libraries panel—DBRM libraries.

```

----- DB/EXPLAIN DB2=D31A -----LIBRARY 1 of 193
CMD ==>                               SCROLL ==> PAGE
                                     L I B R A R I E S
      Cnds: DO (Menu) GLOBAL (Menu)           Selects: ? (Menu)
-----
S
L DATASET NAME                               STATUS                               DBRMS
-----
- PP.CDB.RDB2DASD.DEMOCNTL                   NOT CATALOGED                               1
- Tddb.SCC.DBRM                               ON VOLUME OMON23                           1
- Tddb.SD2.DBRM                               ON VOLUME OMON34                           1
- TSDB08.DBT722.CNTL                         ON VOLUME OMON30                           1

```

The following illustration shows format 3 of the Libraries panel—package libraries.

```

----- DB/EXPLAIN DB2=D31A ----- LIBRARY 1 OF 19
CMD ==>                               SCROLL ==> PAGE
                                     L I B R A R I E S
      Cnds: DO (Menu) GLOBAL (Menu)           Selects: ? (Menu)
-----
S
L DATASET NAME                               STATUS                               PKGS
-----
- PP.CDB.RDB2DASD.DEMOCNTL                   NOT CATALOGED                               1
- PP.DB2.V23.DSNSAMP                          1
- PP.QMF.V240.DSQDBRM                        1
- Tddb.DBTOOLS.V103.D22A.CNTL                1

```

Panels (continued)

The following illustration shows the Library Delete Confirmation panel.

```
----- DB/EXPLAIN DB2=D31A -----  
Cmd ==>  
  
LIBRARY DELETE CONFIRMATION  
  
Press ENTER to delete (or HDELETE) the data set.  
Press END to keep the data set.  
  
Library Name TDDB.SCC.DBRM  
Status      ON VOLUME OMON23
```

Fields and Associated Sorts and Filters

FIELD	ON PANEL...	DESCRIPTION	SORTS/ FILTERS
LERR (Library Error)	KTEPLIBR	Library Error values: Y Any error N None Source: Derived	LERR
LIBRARY NAME	KTEPLIBR	Name of either DBRM or package library. Source: SYSIBM.SYSDBRM.PDSNAME Source: SYSIBM.SYSPACKAGE.PDSNAME	LLIB
ALL	KTEPLIBR	Number of DBRM and package members in library. Source: SYSIBM.SYSDBRM + SYSPACKAGE	L#ALL
DBRMS	KTEPLIBR	Number of DBRM members in library. Source: SYSIBM.SYSDBRM	L#DBR
PKGS	KTEPLIBR	Number of package members in library. Source: SYSIBM.SYSPACKAGE	L#PKG
(NAME heading) • DBRM • PACKAGE • ALL	KTEPLIBR	A variable field describing the type of data displayed in the column below it.	
(No. of MEMBERS HEADING) • DBRM • PACKAGE • ALL	KTEPLIBR	This field is variable depending on what data will be displayed.	
STATUS	KTEPLIBR	Library Status values: Migrated Not Cataloged On Volume XXXXXX No Volumes in Catalog Not Verified (that is, the field is blank) Source: Derived	LSTAT

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
D	Display all DBRMs in the selected library.	DBRMs (KTEPDDBRM)
K	Display packages in the selected library.	Packages (KTEPKACK)
R	Issue an HRECALL for the requested selection.	Redisplay KTEPLIBR with updated status information
V	Verify the selected library.	Redisplay KTEPLIBR with updated status information
Y	Delete the selected library.	Delete confirmation (KTEPLIDL)

Commands

After execution of each command, the Library panel reappears with the desired data.

COMMAND	DESCRIPTION
LALL	List all DBRM and package members.
LDBR	List all DBRM members.
LPKG	List all package members.

Online Menu

Overview

This unit describes the !DB/EXPLAIN Online Menu.

Background about the Online Menu

The Online Menu (KTEPMEON) provides entry to !DB/EXPLAIN. You can find more information about !DB/EXPLAIN's Online Menu and its functions in the chapter "Accessing !DB/EXPLAIN Functions" in the *!DB/EXPLAIN User's Guide*.

Access

You access the !DB/EXPLAIN Online Menu from the !DB/Tools Product Selection Menu.

Panel

The following illustration show the Online Menu panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

                                O N L I N E   M E N U

Extract ID          ==>
Create Batch JCL? ==> N   ( Y Yes  N No )           Estae Flag ==> Y

Specify Additional Data Sets? ==> N ( Y Yes  N No )
Specify Member Lists?         ==> N ( Y Yes  N No )

Option ==> 1
 1 SQL Statements
   Data Set Name   :
   File Format     :
 2 BIND Commands
   Data Set Name   :
   Allocate DBRMLIB?: ( Y Yes  N No  E Edit DBRMLIB concatenation )
 3 DBRM
   Data Set Name   :
   Owner/Qualifier :                               Plan:

----- (C) Copyright CANDLE Corp. 1993 - 1999 -----

```

Fields

FIELD	DESCRIPTION
CREATE BATCH JCL?	<p>Determines whether the Generate JCL panel will be displayed to permit you to create the JCL to run the requested function in batch.</p> <p>Y Create batch JCL N Do not create batch JCL</p>
ESTAE FLAG	Field set to Y unless informed otherwise by Candle Support Services.
EXTRACT ID	1-8 character ID that specifies the extract. Candle Corp. recommends using the DB2 Subsystem ID (SSID) as the first characters of the extract ID to allow for easy tracking of extracts
FUNCTION	Numeric field that represents the function to invoke.
SPECIFY ADDITIONAL DATASETS?	<p>Determines whether a panel is displayed to permit you to provide a list of datasets to be used by the selected function.</p> <p>Y Permit additional datasets to be entered N Do not permit additional datasets to be entered</p>
SPECIFY MEMBER LISTS?	<p>Determines whether a list of partitioned data set members will be displayed from which you can select members to be processed.</p> <p>Y Display list of partitioned data set members N Do not display list of partitioned data set members</p>

Output Options

Overview

This unit describes the Output Options panel.

Background about the Output Options panel

The Output Options panel allows you to specify where to store items.

Access

The Output Options panel appears before the Process Member Menu whenever SQL output is written to the User PDS.

Panel

The following illustration shows the Output Options panel.

```
----- DB/EXPLAIN DB2=D31A -----  
Cmd ===>  
  
          O U T P U T   O P T I O N S  
  
You have requested a function which will output data to a PDS member.  
Specify the PDS, member name, and whether to modify onto member or not.  
  
Library: TDDB.DE2.V235.TESTNG.USER  
Member: BIND  
Modify onto member: N  
  
ENTER to accept values      END to cancel request
```

Fields

Filtering and sorting are not available for the Index Keys function.

FIELD	DESCRIPTION
LIBRARY NAME	Name of a PDS library
MEMBER	Name of the member to which the output is written
MODIFY ONTO MEMBER	Specifies whether to add output to the end of a member if that member exists, or whether to replace the member if it exists. Y Add output to the end of a member if it exists N Replace the member if it exists

Package Connections

Overview

This unit describes the Package Connections panel.

Background about the Package Connections panel

The Package Connections panel (KTEPKCON) lists all environments in which a particular package can be executed. Its source is the DB2 table SYSPKSYSTEM that contains zero or more rows for every local package. Each row represents a possible connection to an environment in which a package could be executed.

Access

The Package Connections panel can only be invoked by selecting option **N** (Connections) from the Packages panel (see “Packages” on page 166). From Package Connections, the user can only return to the Packages panel.

Panel

The following illustration shows the Package Connections panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ===>                                SCROLL ===> PAGE

          P A C K A G E   C O N N E C T I O N S

Cmnds: GLOBAL (Menu)
-----
          SYSTEM          CONNECTION          ENABLE
          -----          -----          -----
          BATCH           BATCH           Y
          CICS            CICS            N
          DB2CALL         DB2CALL         N
          DLIBATCH        DLIBATCH        N
          IMSBMP          IMSBMP          N
          IMSMPP          IMSMPP          N
          REMOTE          REMOTE          N
  
```

Fields and Related Sorts and Filters

FIELD	DESCRIPTION	SORTS/ FILTERS
CONNECT	Connection name. Source: SYSIBM.SYSPKSYSTEM.CNAME	KCNN
ENABLE	Indicates whether the connections are enabled or disabled. Y Enabled N Disabled Source: SYSIBM.SYSPKSYSTEM.ENABLE	KENA
SYSTEM	Environment. BATCH TSO Batch CICS Customer Information Control System DB2CALL DB2 Call Attachment Facility DLIBATCH DLI Batch Support Facility IMS IMS region IMSBMP IMSBMP region IMSMPP IMSMPP and IFP region REMOTE Remote Application Server Source: SYSIBM.SYSPKSYSTEM.SYSTEM	KSYS

Packages

Overview

This unit describes the Packages panel.

Background about the Packages panel

The Packages panel (KTEPKACK) and its associated information panel lists the packages defined in the DB2 catalog.

Formats

You can display the panel in seven formats.

Format	Displayed Fields
Format 1	Package, Value, SYSPACKAGE Indicators, Statements, Selects, Deletes, Updates, Inserts, Exclusive Locks, Shared Locks, Dynamicrules
Format 2	Package, Creator, Owner, Qualifier, Collection, Contoken
Format 3	Package, Creator, Timestamp, Package Size, Average Size, Statements, System Entries
Format 4	Package, Precompile Timestamp, Library
Format 5	Package, Precompile Timestamp, EXPLAIN Timestamp, Total DB2 Cost
Format 6	Package, EXPLAIN Timestamp, Maximum Cost, Average Cost, Total Cost
Format 7	Package, Statements, Selects, Declared Cursors, Deletes, Updates, Inserts, Shared Locks, Exclusive Locks
Format 8	Package Name, Collection ID, Group Member, Creator, Bind Timestamp

Access

Packages can be accessed from the Primary or Sessions Menus, or from the Plans, Collections, Tables, or Libraries panels.

Panels

The following illustration shows format 1 of the Packages panel.

```

----- DB/EXPLAIN DB2=D42B ----- LINE1 OF 81
Cmd ==>                                SCROLL ==> CSR
                                P A C K A G E S
                                Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
                                VOVRIVDEQCCMDHRSDD                                LCK LCK
                                LPDESAPXUOHXELMEGR                                STMTS  SELECTS  DELETES  UPDATES  INSERTS  XCL  SHR
-----
- DSNESM68 NYY SRBNNNANNBNN1          17      0      0      0      0      0      0
- DSNESM68 NYY RRBNNNANNBNN1          17      0      0      0      0      0      0
- DSNTEP2  NYY SRBNNNANNPNN1          31      0      0      0      0      0      0
- DSN8CC0  NYY SRBNNNANNCNN1           4      1      0      0      0      0      0
- DSN8CC1  NYY SRBNNNANNCNN1          26      7      1      1      1      0      0
- DSN8CC2  NYY SRBNNNANNCNN1          58     14      2      2      2      0      0
- DSN8HC3  NYY SRBNNNANNCNN1         113      2      2      3      3      0      0
- DSN8IC1  NYY SRBNNNANNCNN1          26      7      1      1      1      0      0
- DSN8IC2  NYY SRBNNNANNCNN1          58     14      2      2      2      0      0
- EMQM1100 NYYCSBBNNNANNDNC1          98      0      0      0      0      0      0
- EMQP1010 NYYCSRCNNNANN YN1          10      0      0      0      0      0      0
- K02SABP  NYYCSRBNNNANNBNN1          21      0      0      0      1      0      0
- K02SABP  NYYCSRBNNNANNBNN1          21      0      0      0      1      0      0
- K02SABS  NYYCSRBNNNANNBNN1          21      0      0      0      1      0      0
- K02SABS  NYYCSRBNNNANNBNN1          21      0      0      0      1      0      0
- K02SACS  NYYCSRBNNNANNBNN1          21      0      0      0      1      0      0
- K02SACS  NYYCSRBNNNANNBNN1          21      0      0      0      1      0      0
- K02SADD  NYYCSRBNNNANNBNN1          21      0      0      0      1      0      0
- K02SADD  NYYCSRBNNNANNBNN1          21      0      0      0      1      0      0
- K02SADS  NYYCSRBNNNANNBNN1          22      0      0      0      1      0      0
- K02SADS  NYYCSRBNNNANNBNN1          22      0      0      0      1      0      0
- K02SAU1  NYYCSRBNNNANNBNN1          16      0      0      0      1      0      0
- K02SAU1  NYYCSRBNNNANNBNN1          16      0      0      0      1      0      0
- K02SAU2  NYYCSRBNNNANNBNN1          16      0      0      0      1      0      0

```

The following illustration shows format 2 of the Packages panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE15 OF 93
CMD ==>                                SCROLL ==> PAGE
                                P A C K A G E S
                                Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
                                VOVRIVDEQCCMDHRSDD                                LCK LCK
                                LPDESAPXUOHXELMEGR                                STMTS  SELECTS  DELETES  UPDATES  INSERTS  XCL  SHR
-----
SEL PACKAGE  CREATOR  OWNER  QUALIFIER  COLLECTION  CONTOKEN
-----
- DSNQVAUD  TD0209B  TD0209B  TD0209B  DSNQCATV  14A420A612CD0104
- DSNQVAUT  TD0209B  TD0209B  TD0209B  DSNQCATV  14A420AA090A7A08
- DSNQVCAS  TD0209B  TD0209B  TD0209B  DSNQCATV  14A420B306EB5B5C

```

Panels (continued)

The following illustration shows format 3 of the Packages panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE15 OF 93
CMD ==> SCROLL ==> PAGE

                                P A C K A G E S
      Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
SEL PACKAGE  CREATOR  DATE          TIME PKSIZE AVSIZE  STMTS SYSENTRY
-----
- DSNQVAUD  TD0209B  0000/00/00  00:00:00.000000    376    0    96    0
- DSNQVAUT  TD0209B  0000/00/00  00:00:00.000000   2104   3454   133    0
- DSNQVCAS  TD0209B  0000/00/00  00:00:00.000000   1352   4390   146    0
  
```

The following illustration shows format 4 of the Packages panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE15 OF 93
CMD ==> SCROLL ==> PAGE

                                P A C K A G E S
      Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
      --- PRECOMPILE ---
SEL PACKAGE  DATE          TIME LIBRARY
-----
- DSCSAMP4  1999/10/30  10:40:28  TSDB07.DBRMLIB.DATA
  VERSION:
- DSCSAMP4  1999/10/30  10:40:28  TSDB07.DBRMLIB.DATA
  VERSION:
- DSCSAMP4  1999/10/30  10:40:28  TSDB07.DBRMLIB.DATA
  VERSION:
  
```

The following illustration shows format 5 of the Packages panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE1 OF 144
CMD ==> SCROLL ==> PAGE

                                P A C K A G E S
      Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
SEL PACKAGE  --- PRECOMPILE --- EXPLAIN --- TOTAL
      DATE          TIME DATE          TIME DB2 COST
-----
- ALTSQLMU  1999/06/19  04:53:09  0000/00/00  00:00:00.000000    0.0
  VERSION:
- ALTSQLMU  1999/06/19  04:53:09  0000/00/00  00:00:00.000000    0.0
  VERSION:
- ALTSQLMU  1999/06/19  04:53:09  0000/00/00  00:00:00.000000    0.0
  VERSION:
  
```


Panels (continued)

The following illustration shows format 6 of the Packages panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE1 OF 144
CMD ==>                               SCROLL ==> PAGE

                                P A C K A G E S
Cmnds: DO (Menu) GLOBAL (Menu)           Selects: ? (Menu)
-----
SEL  PACKAGE  DATE  EXPLAIN  TIME  STATEMENT COSTS  TOTAL
-----
-   ALTSQLMU  0000/00/00  00:00:00  0.0  0.0  0.0
-   ALTSQLMU  0000/00/00  00:00:00  0.0  0.0  0.0
-   ALTSQLMU  0000/00/00  00:00:00  0.0  0.0  0.0
    
```

The following illustration shows format 7 of the Packages panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                               SCROLL ==> CSR

                                P A C K A G E S
Cmnds: DO (Menu) GLOBAL (Menu)           Selects: ? (Menu)
-----
SEL  PACKAGE  STMTS  DECLARE  LOCK  LOCK
      PACKAGE  SELECTS CURSORS DELETES UPDATES INSERTS SHR  XCL
-----
-   DSNESM68   17     0     0     0     0     0     0     0     0
-   DSNESM68   17     0     0     0     0     0     0     0     0
-   DSNQVALI   2      1     0     0     0     0     0     0     0
    
```

Panels (continued)

The following illustration shows format 8 of the Packages panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 1,098
CMD ==>                               SCROLL ==> PAGE
                                     P A C K A G E S
      Cnds: DO (Menu) GLOBAL (Menu)      Selects: ? (Menu)
-----
SEL PACKAGE  COLLECTION          GROUP
                                     MEMBER  CREATOR  BIND  TIMESTAMP
-----
-   ALECV23   TEST                  TSNY36A 1999/03/14 19:49:07.226133
-   ALLIED   MLDEMO                 TSUK72  1999/04/20 07:53:03.768070
-   ALTICCAT Xddb05                TSNY36A 1999/07/11 20:33:41.613489
-   ALTMPEX2 TSSC02                TSSC02  1999/01/27 05:20:21.374542
-   ALTMPEX2 Xddb05                TSNY36A 1999/07/11 20:33:59.458299
-   ALTMPEX3 CANDLE_TE_SYSIBM     TSL265  1999/07/25 13:24:03.174351
-   ALTSQJLR CANDLE_TE_SYSIBM     TDDB18  1999/12/02 19:03:16.786129
-   ALTSQJLR TSDB12                TSNY36A 1999/05/11 16:39:27.933250
-   ALTSQJLR Xddb05                TSNY36A 1999/10/19 09:45:42.293260
-   ALTSQLUM CANDLE_TE_SYSIBM     TSL265  1999/07/25 13:02:35.101652
-   ASMDRV00 CANDLE_TE_SYSIBM     TSNY19  1999/09/23 08:42:38.227953
-   ASMFUBR  BRIANT                TDDB24  1999/10/21 09:55:42.564846
-   ASMFUBR  KTEFUBAR              TDDB24  1999/08/26 18:20:38.990936
-   ASMFUBR  KTEFUBAS              TDDB24  1999/08/26 18:18:07.553504
-   ASMFUBR  KTEXBWMA              TDDB24  1999/10/01 14:43:13.321912

```

Panels (continued)

The Package Information panel shows all package information. This panel is scrollable.

```

----- DB/EXPLAIN DB2=D42B ----- LINE1 OF 24
Cmd ==>                                SCROLL ==> CSR
                P A C K A G E   I N F O R M A T I O N

      Cnds: GLOBAL (Menu)
-----
PACKAGE : DSNESM68 COLLECTION: DSNESPRR          CONTOKEN: 14EDB8820C325F30
CREATOR  : RGRAPH  OWNER    : RGRAPH2  BOUND   : 1999/10/16 18:19:51.766655
FREED?   : N        QUALIFIER : TD0214   CREATED  : 1999/10/16 17:51:35.329147
PK SIZE  : 1360 SYSENTRIES: 0    PRECOMPILE: 0001/01/01 00:00:00.000000
AVG SIZE : 0 DEGREE   : 1        GROUP MEMBER;
LIBRARY  : TDKT.TE500ACM.DBRM
VERSION  : V500

VALID: Y   OPERATIVE: Y   VALIDATE: R   RELEASE: C   EXPLAIN: N
COMMA: N   ISOLATION: S   HOSTLANG: B   SQLERR : N   CHARSET: A
QUOTE: N   DEFERPREP:    REMOTE  : N   DEC31  : N   MIXED  : N
          DYNAMICRULES: DEFERPRE: C   KEEODYN: N   REOPT  : N

----- SQL COUNTS -----
STATEMENTS = 17  DROP = 0  REVOKE = 0
ALTER       = 0  EXECUTE = 1  ROLLBACK = 1
CALL       = 0  EXPLAIN = 0  SELECT = 0
CLOSE      = 1  FETCH  = 1  SET = 0
COMMIT     = 1  GRANT  = 0  SET CONNECT = 0
CONNECT    = 1  INSERT = 0  SET DEGREE = 0
CREATE     = 0  LOCK SHR = 0  SET HOST = 0
DECLARE CURSOR = 1  LOCK XCL = 0  SET PKGSET = 0
DECLARE STATEMENT = 0  OPEN = 1  SET RULES = 0
DECLARE TABLE = 1  PREPARE = 5  SET SQLID = 0
DELETE     = 0  RELEASE = 0  UPDATE = 1
DESCRIBE   = 4  WHENEVER = 0

***** BOTTOM OF LIST *****

```

Fields and Associated Sorts and Filters

The following table is an alphabetical listing of fields in all the Packages panel formats and the Packages Information panel. Format I indicates the information panel.

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
ALTER	I	Total number of ALTER statements in the package. Source: SYSIBM.SYSPACKSTMT	K#AL
AVERAGE STMT COST	6	Average statement cost. Source: Derived	KACST
AVSIZE	3, I	Average size measured in bytes of the package sections processed at BIND time. Source: SYSIBM.SYSPACKAGE.AVSIZE	KAVS
BIND DATE/TIME (Bound)	3, 8, I	Timestamp indicating when the package was last bound. Source: SYSIBM.SYSPACKAGE.BINDTIME	KBDT
CALL	I	Number of CALL statements in the package Source: SYSIBM.SYSPACKAGE.CALL	K#CA
CH (Charset)	1, I	Indicates whether the system CCSID for SBCS data was 290 (Katakana) when the program was precompiled. K Yes A No Source: SYSIBM.SYSPACKAGE.CHARSET	KCHRS
CLOSE	I	Total number of CLOSE statements in the package. Source: SYSIBM.SYSPACKSTMT	K#CL
CO (Comma)	1, I	Indicates the decimal point representation for SQL statements in the package. N Period Y Comma Source: SYSIBM.SYSPACKAGE.COMMA	KCOMM
COLLECTION	2, 8, I	Name of the package collection. Source: SYSIBM.SYSPACKAGE.COLLID	KCOL
COMMIT	I	Total number of COMMIT statements in the package. Source: SYSIBM.SYSPACKSTMT	K#CM
CONNECT	I	Total number of CONNECT statements in the package. Source: SYSIBM.SYSPACKSTMT	K#CN

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
CONTOKEN	2, I	Consistency token for the package. Source: SYSIBM.SYSPACKAGE.CONTOKEN	KTOK
CREATE	I	Total number of CREATE statements in the package. Source: SYSIBM.SYSPACKSTMT	K#CR
CREATED	I	Timestamp indicated when the package was created. Source: SYSIBM.SYSPACKAGE.TIMESTAMP	KCRDT
CREATOR	2, 3, 8, I	Authorization ID of the package creator. Source: SYSIBM.SYSPACKAGE.CREATOR	KCR
DE (Dec31)	1	Indicates whether DEC31 was in effect when the package's program was precompiled. N No Y Yes Source: SYSIBM.SYSPACKAGE.DEC31	KDC31
DECLARE CURSOR	7, I	Total number of DECLARE CURSOR statements in the package. Source: SYSIBM.SYSPACKSTMT	K#DC
DECLARE STATEMENT	I	Total number of DECLARE STATEMENT statements in the package. Source: SYSIBM.SYSPACKSTMT	K#DM
DECLARE TABLE	I	Total number of DECLARE TABLE statements in the package. Source: SYSIBM.SYSPACKSTMT	K#DT
DEFERPREP	1, I	Indicates whether the package was bound with the DEFER(PREPARE) option. Valid values include: Y Yes N No Blank The option is inherited from the PLAN Source: SYSPACKAGE.DEFERPREPARE	KDEFP
DEGREE	I	DEGREE option used when the panel was bound. Source: SYSIBM.SYSPACKAGE.DEGREE	KDEGR

Packages

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
DG	1	<p>DEGREE option used when the panel was bound. Its value may be:</p> <p>1 Generated BIND/REBIND contains the DEGREE(1) clause—I/O parallelism disabled.</p> <p>ANY Generated BIND/REBIND contains the DEGREE(ANY) clause. I/O parallelism value set by DB2.</p> <p>blank Not specified; thus uses the default 1, I/O parallelism disabled.</p> <p>Source: SYSIBM.SYSPACKAGE.DEGREE</p>	KDEGR
DELETES	1, 7, I	<p>Number of DELETE statements in the package.</p> <p>Source: SYSIBM.SYSPACKSTMT</p>	K#DL
DESCRIBE	I	<p>Total number of DESCRIBE statements in the package.</p> <p>Source: SYSIBM.SYSPACKSTMT</p>	K#DS
DP (Deferpre)	1, I	<p>Indicates the CURRENTDATA option when the package was bound or rebound:</p> <p>A Data currency required for all cursors. Inhibit blocking for all cursors. This value can only be generated by a non-DB2 application requestor.</p> <p>B Data currency is not required for ambiguous cursors. Allow blocking for ambiguous cursors.</p> <p>C Data currency is required for ambiguous cursors. Inhibit blocking for ambiguous cursors.</p> <p>blank Blocking protocol not recorded because the package was created before the CURRENTDATA option was available.</p> <p>Source: SYSIBM.SYSPACKAGE.DEFERPREP</p>	KDFP
DR	1	<p>The DYNAMICRULES option used when the package was bound.</p> <p>B Dynamic SQL statements are handled like static SQL statements at run time.</p> <p>R Dynamic SQL statements are handled like dynamic SQL statements at run time.</p> <p>blank DYNAMICRULES is not specified for the package or the DB2 subsystem is not at least V4.</p> <p>Source: SYSIBM.SYSPACKAGE.DYNAMICRULES</p>	KDYNR
DROP	I	<p>Total number of DROP statements in the package.</p> <p>Source: SYSIBM.SYSPACKSTMT</p>	K#DR

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
DYNAMICRULES	1	The DYNAMICRULES option used when the package was bound. B Dynamic SQL statements are handled like static SQL statements at run time. R Dynamic SQL statements are handled like dynamic SQL statements at run time. blank DYNAMICRULES is not specified for the package or the DB2 subsystem is not at least V4. Source: SYSIBM.SYSPACKAGE.DYNAMICRULES	KDYNR
EX (EXPLAIN)	1, I	EXPLAIN at BIND? Y Yes N No Source: SYSIBM.SYSPACKAGE.EXPLAIN	KXPL
EXECUTE	I	Total number of EXECUTE statements in the package. Source: SYSIBM.SYSPACKSTMT	K#EC
EXPLAIN	I	Total number of EXPLAIN statements in the package. Source: SYSIBM.SYSPACKSTMT	K#EX
EXPLAIN DATE/TIME	4, 5	Date and time the package was EXPLAINed. Source: PLAN_TABLE.TIMESTAMP	KEXDT
FETCH	I	Total number of FETCH statements in the package. Source: SYSIBM.SYSPACKSTMT	K#FT
FREED?	I	Has package been FREEd? Source: Derived	KFRE
GRANT	I	Total number of GRANT statements in the package. Source: SYSIBM.SYSPACKSTMT	K#GR
GROUP MEMBER	8, I	The DB2 data sharing member name of the DB2 subsystem that performed the most recent BIND. Source: SYSIBM.SYSPACKAGE.GROUP_MEMBER	KGRP

Packages

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
HL (Hostlang)	1, I	Host language for the package DBRM: B Assembler C COBOL D C F FORTRAN P PL/I 2 VS COBOL II 3 OO-COBOL 4 C++ blank for remotely bound packages Source: SYSIBM.SYSPACKAGE.HOSTLANG	KHLNG
INSERTS	1	Number of INSERT statements in the package. Source: SYSIBM.SYSPACKSTMT	K#IN
IS (Isolation)	1	Isolation Level: R RR (Repeatable Read) S CS (Cursor Stability) T RS (Read Stability) U UR (Uncommitted Read) Source: SYSIBM.SYSPACKAGE.ISOLATION	KISO
K#TS	Filter panel	Total number of DECLARE CURSOR and SELECT statements. Source: SYSIBM.PACKSTMT	K#TS
KEEPDYNAMIC	Filter panel	Indicates the KEEPDYNAMIC option when the package was bound or rebound. Valid values include: Y Keep dynamic SQL past commit or rollback N Destroy dynamic SQL at commit or rollback Source: SYSPACKAGE.KEEPDYNAMIC	KKEEP
LCK SHR	1, 7, I	Number of LOCKS (SHR) in the package. Source: SYSIBM.SYSPACKSTMT	K#LS
LCK XCL	1, 7, I	Number of LOCKS (XCL) in the package. Source: SYSIBM.SYSPACKSTMT	K#LX
LIBRARY	4	Name of the PDS in which the package's DBRM is a member or source of the package. Source: SYSIBM.SYSPACKAGE.PDSNAME	KLIB
MAXIMUM STMT COST	6	Maximum statement cost. Source: Derived	KMCST

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
MX (Mixed)	1, I	Indicates if mixed data was in effect when the package's program was precompiled. N No Y Yes Source: SYSIBM.SYSPACKAGE.MIXED	KMIXD
OP (Operative)	1, I	Indicates whether the package can be allocated. Y Yes N No. An explicit BIND or REBIND is required first. Source: SYSIBM.SYSPACKAGE.OPERATIVE	KOPR
OPEN	I	Total number of OPEN statements in the package. Source: SYSIBM.SYSPACKSTMT	K#OP
OWNER	2, I	Authorization ID of the package owner. Source: SYSIBM.SYSPACKAGE.OWNER	KOWN
PACKAGE	1, 2, 3, 4, 5, 6, 7, 8, I	Name of the package. Source: SYSIBM.SYSPACKAGE.NAME	KPACK
PKSIZE	3, I	Size of the base section of the package, in bytes. Source: SYSIBM.SYSPACKAGE.PKSIZE	KKSZ
PRECOMPILE DATE/TME	4, 5, I	Date and time the application program was precompiled. Source: SYSIBM.SYSPACKAGE.PCTIMESTAMP	KPCDT
PREPARE	I	Total number of PREPARE statements in the package. Source: SYSIBM.SYSPACKSTMT	K#PR
QU (Quote)	1	SQL string delimiter for the SQL statements in the package: N Apostrophe Y Quotation mark Source: SYSIBM.SYSPACKAGE.QUOTE	KQUOT
QUALIFIER	2, I	Implicit qualifier for the unqualified table, view, index, and alias names in the static SQL statements of the package. Source: SYSIBM.SYSPACKAGE.QUALIFIER	KQLF
RE (Release)	1, I	When resources are released: C At commit D At deallocation blank not specified; inherits from plan executing package. Source: SYSIBM.SYSPACKAGE.RELEASE	KRLS

Packages

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
RELEASE	I	Number of RELEASE SQL statements. Source: SYSIBM.SYSSTMT	K#RE
REOPT(VAR)	I	Indicates the REOPT option when the package was bound or rebound. Valid values include: Y Determines the access path at execution time for SQL statements with variable values N Determines the access path at bind time Source: SYSPACKAGE.REOPTVAR	KROPT
REVOKE	I	Total number of REVOKE statements in the package. Source: SYSIBM.SYSPACKSTMT	K#RV
RM (Remote)	1, I	Indicates the source of the package: C Package was created by BIND COPY N Package was locally bound from a DBRM Y Package was bound from a remote location Source: SYSIBM.SYSPACKAGE.REMOTE	KRMT
ROLLBACK	I	Total number of ROLLBACK statements in the package. Source: SYSIBM.SYSPACKSTMT	K#RL
SE (SQLERROR)	1, I	Indicates the SQLERROR option on the most recent subcommand that bound or rebound the package: C Option was CONTINUE N Option was NOPACKAGE Source: SYSIBM.SYSPACKAGE.SQLERROR	KSERR
SELECTS	1, 7, I	Number of SELECT statement in the package. Source: SYSIBM.SYSPACKSTMT	K#SE
SET	I	Total number of SET statements in the package. Source: SYSIBM.SYSPACKSTMT	K#ST
SET CONNECT	I	Number of SET CONNECTION SQL statements. Source: SYSIBM.SYSPACKSTMT	K#SC
SET DEGREE	I	Number of SET CURRENT DEGREE SQL statements. Source: SYSIBM.SYSPACKSTMT	K#SD
SET HOST	I	Number of SET host variable SQL statements. Source: SYSIBM.SYSPACKSTMT	K#SH
SET PKGSET	I	Number of SET PACKAGESET SQL statements. Source: SYSIBM.SYSPACKSTMT	K#SP

FIELD	ON FORMAT	DESCRIPTION	SORTS/ FILTERS
SET RULES	I	Number of SET CURRENT RULES statements in the package Source: SYSIBM.SYSPACKSTMT	K#SR
SET SQLID	I	Number of SET CURRENT SQLID SQL statements. Source: SYSIBM.SYSPACKSTMT	K#SS
STMTS (Statements)	1, 3, I	Total number of statements in package. Source: SYSIBM.SYSPACKSTMT	K#TL
SYSENTRY	3, I	Number of enabled or disabled entries for this package in SYSIBM.SYSPKSYSTEM. Source: SYSIBM.SYSPACKAGE.SYSENTRIES	KSYEN
TOTAL STMT COST	4, 5	Total statement cost. Source: Derived	KPCDT
UPDATES	1, 7, I	Number of UPDATE statements in the package. Source: SYSIBM.SYSPACKSTMT	K#UP
VA (Validate)	1, I	Can validity checking be deferred until run time? B All checking must be done at BIND R Validation is done at run time for tables that do not exist at BIND time Source: SYSIBM.SYSPACKAGE.VALIDATE	KVLT
VD (Valid)	1, I	Indicates whether the package is valid. Y Yes N No A A table has been altered but package is still valid H A table has been altered but package is still valid if using DB2 Version 5.3 or greater Source: SYSIBM.SYSPACKAGE.VALID	KVLD
VERSION	4, I	Version identifier for the package. Source: SYSIBM.SYSPACKAGE.VERSION	KVER
VL (Verification)	1	Shows results of package verification. Possible values include: N DBRM has not been verified. Y DBRM was verified successfully E DBRM verification was unsuccessful T There is a timestamp mismatch Source: Derived	KVRF
WHENEVER	I	Total number of WHENEVER statements in the package. Source: SYSIBM.SYSPACKSTMT	K#WH

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
@	Remote EXPLAIN and gather statistics.	EXPLAIN (KTEPEXPL)
#	Remote EXPLAIN but do not gather statistics.	EXPLAIN (KTEPEXPL)
B	Generate a BIND package statement for the selected package.	BIND Package (KTEPBIKA)
C	Compare the results of the latest !DB/EXPLAIN EXPLAIN for a selected package with the results of performing a BIND EXPLAIN (YES) on the package.	EXPLAIN Compare (KTEPCMPR)
E	EXPLAIN the package and gather statistics.	EXPLAIN (KTEPEXPL)
F	Generate a FREE package.	Output Options (KTEPOUTP)
G	Display cost details for the selected package.	Costs (KTEPCOST)
H	Display the EXPLAIN history for the selected package.	EXPLAIN History (KTEPHIST)
I	Display detailed package information including BIND options.	PACKAGE Information (KTEPKAIN)
J	Select 2 packages with J and compare package attributes.	Compare History (KTEPJHIS)
L	Display the output from the latest EXPLAIN of the package.	EXPLAIN (KTEPEXPL)
N	Display all connections for the selected package.	Package Connections (KTEPKCON)
P	Display all plans associated with the selected package.	Plans (KTEPPLAN)
Q	Display all collections associated with the selected package.	Collections (KTEPCLTN)
R	Generate a REBIND statement for the package.	BIND/REBIND panel (KTEPBIKA)
S	List all the SQL statements for the package.	Statements (KTEPSTMT)
T	Display tables for the selected package.	Tables (KTEPTABL)
U	EXPLAIN the package (do not gather statistics).	EXPLAIN (KTEPEXPL)
V	Verify the package.	Package Verification (KTEPPVER)
W	Perform Whatif analysis on the package.	Whatif (KTEPWHIF)
X	Display Exceptions that exist for each SQL statement in the selected Package.	Exceptions (KTEPXCPT)
8	EXPLAIN and display only DBRMs that have not been !DB/EXPLAINed—gather catalog statistics.	EXPLAIN (KTEPEXPL)
9	EXPLAIN and display only DBRMs that have not been !DB/EXPLAINed—do not gather catalog statistics.	EXPLAIN (KTEPEXPL)

Commands

COMMAND	DESCRIPTION	TAKES YOU TO...
BIND	Generate BIND statements for all active packages.	BIND Package (KTEPBIKG) or Output Options (KTEPOUTP)
BINDADD	BIND ACTION(ADD).	BIND Package (KTEPBIKG) or Output Options (KTEPOUTP)
BINDEXP	BIND EXPLAIN(YES).	BIND Package (KTEPBIKG) or Output Options (KTEPOUTP)
BINDREP	BIND ACTION(REPLACE).	BIND Package (KTEPBIKG) or Output Options (KTEPOUTP)
COMPARE	Perform a BIND COMPARE of each Package on the current display according to the options set on the Housekeeping Bind Compare Options Panel KTEPHOBC.	EXPLAIN Compare (KTEPCMPR)
COST	Show statement costs for all packages on the list.	Costs (KTEPCOST)
DROP	Generate FREE statements for all active packages.	Output Options (KTEPOUTP)
EXPL	EXPLAIN (without gathering statistics) all packages that have not been EXPLAINed since they were last bound. Also display latest EXPLAIN for previously EXPLAINed entities.	EXPLAIN (KTEPEXPL)
EXPLA	EXPLAIN (without gathering statistics) all packages.	EXPLAIN (KTEPEXPL)
EXPLAR	Remote EXPLAIN (without gathering statistics) all packages.	EXPLAIN (KTEPEXPL)
EXPLO	EXPLAIN and display only packages that have not been EXPLAINed since they were last bound. Do not gather catalog statistics.	EXPLAIN (KTEPEXPL)
EXPLOR	Remote EXPLAIN and display only packages that have not been EXPLAINed since they were last bound. Do not gather catalog statistics.	EXPLAIN (KTEPEXPL)
EXPLR	Remote EXPLAIN (without gathering statistics) all packages that have not been EXPLAINed since they were last bound. Also display latest EXPLAIN for previously EXPLAINed entities.	EXPLAIN (KTEPEXPL)
GEXPL	EXPLAIN all packages that have not been EXPLAINed since they were last bound and gather statistics. Also display latest EXPLAIN for previously EXPLAINed entities.	EXPLAIN (KTEPEXPL)
GEXPLA	EXPLAIN all packages and gather statistics.	EXPLAIN (KTEPEXPL)
GEXPLAR	Remote EXPLAIN all packages and gather statistics.	EXPLAIN (KTEPEXPL)
GEXPLO	EXPLAIN and display only packages that have not been EXPLAINed since they were last bound. Gather catalog statistics.	EXPLAIN (KTEPEXPL)

Packages

COMMAND	DESCRIPTION	TAKES YOU TO...
GEXPLOR	Remote EXPLAIN and display only packages that have not been EXPLAINed since they were last bound. Gather catalog statistics.	EXPLAIN (KTEPEXPL)
GEXPLR	Remote EXPLAIN all packages that have not been EXPLAINed since they were last bound and gather statistics. Also display latest EXPLAIN for previously EXPLAINed entities.	EXPLAIN (KTEPEXPL)
HIST	Display Package History.	
IMPACT	Compare each nonhistorical package with its most recent historical counterpart.	Compare History (KTEPJHIS)
INFO	Show Package Information.	Package Info (KTEPKAIN)
LEXPL	Display latest EXPLAIN.	EXPLAIN (KTEPEXPL)
LEHIST	Display latest EXPLAIN History.	EXPLAIN History (KTEPHIST)
NOHIST	Reset History.	EXPLAIN History (KTEPHIST)
REBIND	Generate REBIND statements.	BIND/REBIND (KTEPBIKA)
REINDEX	REBIND EXPLAIN(YES).	Output Option (KTEPOUTP)
XCPT	Display Exceptions.	Exceptions (KTEPXCPT)

A note about compares

Typically, when you are on the Plans, Packages, or DBRMS panel, you can issue the IMPACT command (or the J select) to obtain compare history information. The IMPACT command or J select compares such things as precompile options, owners, or qualifiers.

CEXPL is issued from the Compare History panel and compares EXPLAINs.

Plan Connections

Overview

This unit describes the Plan Connections panel.

Background about the Plan Connections panel

The Plan Connections panel (KTEPPCON) lists all environments that a particular plan can access. Its source is the DB2 table SYSPLSYSTEM. This table contains zero or more rows for every local plan. Each row represents a possible connection to an environment in which a plan could be executed.

Access

Plan Connections can only be invoked by selecting option N (Connections) from the Plans panel (see “Plans” on page 187). From Plan Connections, you can only return to Plans.

Panel

The following illustration shows the Plan Connections panel. Initially, the list is sorted according to how you have specified it to be sorted in the Housekeeping Panel sorts.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ===>                                SCROLL ===> CSR

          P L A N   C O N N E C T I O N S
    Cnds: DO (Menu) GLOBAL (Menu)          Selects: ? (Menu)
-----
          SYSTEM          CONNECTION          ENABLE
          -----          -----          -----
          BATCH          CICS0001          N
          CICS          CICS0002          Y
          CICS          CICS0003          Y
          CICS          CICS0004          N
  
```

Fields and Associated Sorts and Filters

FIELD	DESCRIPTION	SORTS/ FILTERS
CONNECT	Connection name. Source: SYSIBM.SYSPLSYSTEM.CNAME	PCNN
ENABLE	Indicates whether the connections are enabled or disabled. Y Enabled N Disabled Source: SYSIBM.SYSPLSYSTEM.ENABLE	PENA
SYSTEM	Environment. BATCH TSO Batch. CICS Customer Information Control System DB2CALL DB2 Call Attachment Facility DLIBATCH DLI Batch Support Facility IMS IMS region IMSBMP IMSBMP region IMSMPP IMSMPP and IFP region Source: SYSIBM.SYSPLSYSTEM.SYSTEM	PSYS

Plan Package List

Overview

This unit describes the Plan Package List panel.

Background about the Plan Package List panel

The Plan Package List panel (KTEPPKPL) lists every local application plan bound with a package list. Its source is the DB2 table SYSPACKLIST. This table contains zero or more rows for every local application plan bound with a package list. Each row represents a unique entry in the plan's package list.

Access

Plan Package List is invoked from either Plans or Collections.

Panel

The following illustration shows the Plan Package List panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE

                P A C K A G E   L I S T

    Cnds: GLOBAL (Menu)
-----
LOCATION          COLLECTION ID    PACKAGE  SEQNO  TIMESTAMP
-----
                *                GULCOL1   1  1999/05/22 15:26:42.601909
                *                GULCOL2   2  1999/05/22 15:26:42.601909
                *                GULCOL3   3  1999/05/22 15:26:42.601909
  
```

Fields and Associated Sorts and Filters

FIELD	DESCRIPTION	SORTS/ FILTERS
COLLECTION ID	Collection name for the package. Source: SYSIBM.SYSPACKLIST.COLLID	PCOL
LOCATION	Location of the package: * Location to be determined at run time. blank Local nonblank Location name Source: SYSIBM.SYSPACKLIST.LOCATION	PLOC
PACKAGE	Name of the package. An asterisk (*) indicates an entire collection. Source: SYSIBM.SYSPACKLIST.NAME	PPKG
SEQNO	Sequence number of the entry in the package list. Source: SYSIBM.SYSPACKLIST.SEQNO	PSEQ
TIMESTAMP	Timestamp indicating when the row was created. Source: SYSIBM.SYSPACKLIST.TIMESTAMP	

Plans

Overview

This unit describes the Plans panel.

Background about the Plans panel

The Plans panel (KTEPPLAN) and its associated information panel list all plans defined in the DB2 catalog. The primary function of the panel is to do EXPLAINs and review the resultant EXPLAIN, BIND, and access path information of a plan.

In addition, a special bridge allows OMEGAMON II for DB2 users to review a selected plan's performance trace information and thread-related information in OMEGAMON II's Application Trace Facility (**A** select) and Accounting Reports (**P** select).

Note: You must know the name of the data set containing this history information to use this facility. You can change the name of the Accounting History data set by using the OMEGAMON II for DB2 **OPTIONS** command. For more information, see “Historical Reporter Options” in the *OMEGAMON II for DB2 Historical Reporting Guide*.

Formats

The Plans panel is available in five different formats to allow access to all information in the DB2 Catalog on a plan. Additional fields can be reviewed on the associated Information panel using the **I** select.

Format	Displayed Fields
Format 1	All
Format 2	Packages
Format 3	DBRMs
Format 4	BIND Information
Format 5	Access Path Information
Format 6	Group Member Information

Panels

The following illustration shows format 1 of the Plans panel. It includes all information contained in the other formats.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>
                                P L A N S
    Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
SEL PLAN      COUNT  STMTS SELECTS DCL CSR DELETES UPDATES INSERTS XCL SHR
-----
- #CDLABL1    1      2      1      0      0      0      0      0  0  0
- #101NSRT    1      3      0      0      0      1      0      1  0  0
- #101SAVE    1      5      0      1      0      0      0      0  0  0

```

The following illustration shows format 2 of the Plans panel containing packages information.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>
                                P L A N S
    Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
SEL PLAN      COUNT  STMTS SELECTS DCL CSR DELETES UPDATES INSERTS XCL SHR
-----
- #CDLABL1    0      0      0      0      0      0      0      0  0  0
- #101NSRT    0      0      0      0      0      0      0      0  0  0
- #101SAVE    0      0      0      0      0      0      0      0  0  0

```

The following illustration shows format 3 of the Plans panel containing DBRM information.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>
                                P L A N S
    Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
SEL PLAN      COUNT  STMTS SELECTS DCL CSR DELETES UPDATES INSERTS XCL SHR
-----
- #CDLABL1    1      2      1      0      0      0      0      0  0  0
- #101NSRT    1      3      0      0      0      1      0      1  0  0
- #101SAVE    1      5      0      1      0      0      0      0  0  0

```

Panels (continued)

The following illustration shows format 4 of the Plans panel containing BIND information.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                     SCROLL ==> PAGE

                                P L A N S

      Cmts: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
SEL PLAN      CREATOR  BOUND BY QUALIFIER BIND DATE  BIND TIME SERVER
-----
-   KTE        TDDB16   TDDB16   TDDB16   1999/07/20 14:06:54
-   KTEPLAN    TDDB19   TDDB19   TDDB16   1999/08/25 11:01:46
-   QMF240     TD0209B  TD0209B  TD0209B  1999/03/23 14:03:19

```

The following illustration shows format 5 of the Plans panel containing access path information.

```

----- DB/EXPLAIN DB2=D42B ----- LINE1 OF 82
Cmd ==>                                     SCROLL ==> CSR

                                P L A N S

      Cmts: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
-----
                                VOVARIVDESDCDKR
SEL  PLAN      LPDCESAPXIQGRDDO CACHESZ  PLSIZE  AVGSIZE  PLENTRIES  SYSENTRIES
-----
-   CANPLAN    NYYUCSBNNED1  NN    1024    12320    2338      0      0
-   CANPLNX    NYYUCSBNNED1  NN    1024    3320     1500      0      0
-   CHGPLAN    NYYUCSBNNED1  NN    1024    3320     1682      0      0
-   CHGPLANX   NYYUCSBNNED1  NN    1024    2944     1450      0      0
-   DSDPLAN    NYYUCSBNNED1  NN    1024    4712     1704      0      0
-   DSDPLANX   NYYUCSBNNED1  NN    1024    3320     1500      0      0
-   DSNEDCL    NYYUCSRNNED1  NN    1024    2232      0      0      0
-   DSNESPCS   NYYUCSRNNED1  NN    1024    2040      0      1      0
-   DSNESPRR   NYYUCRRNNED1  NN    1024    2040      0      1      0
-   DSNHYCRD   NYYUCSRNNED1  NN    1024    2432     2017      0      0
-   DSNTEP2    NYYUCSRNNED1  NN    1024    2040      0      1      0
-   DSNTEP31   NYYUCSRNNED1  NN    1024    2040      0      1      0
-   DSNTIAD    NYYUCSRNNED1  NN    1024    2232      0      0      0
-   DSNTIAUL   NYYUCSRNNED1  NN    1024    2280      0      0      0
-   DSNTIA31   NYYUCSRNNED1  NN    1024    2232      0      0      0
-   DSNTIB31   NYYUCSRNNED1  NN    1024    2280      0      0      0
-   DSN8BH31   NYYUCSRNNED1  NN    1024    2536     2424      0      0
-   DSN8BP31   NYYUCSRNNED1  NN    1024    2536     2426      0      0
-   DSN8CC0    NYYUCSRNNED1  NN    1024    2040      0      1      0
-   DSN8CH0    NYYUCSRNNED1  NN    1024    2536     2426      0      0
-   DSN8CP0    NYYUCSRNNED1  NN    1024    4928     2780      0      0
-   DSN8CQ0    NYYUCSRNNED1  NN    1024    6088     2168      0      0

```

Panels (continued)

The following illustration shows format 6 of the Plans panel containing group member information.

----- DB/EXPLAIN DB2=D42B ----- LINE1 OF 48
 Cmd ==>> SCROLL ==>> PAGE

P L A N I N F O R M A T I O N

Cmds: GLOBAL (Menu)

```

PLAN NAME   : BOSTONN      CREATOR   : GDEMI      PLENTRIES  :      0
PLAN FREED? : N           QUALIFIER : KFORD      SYSENTRIES :      0
AVERAGE SIZE:           0   BOUND BY   : GDEMI2    DBRMS      :      1
PLAN SIZE   :    3336     BIND DATE  : 1999/11/26  PACKAGES   :      0
CACHE SIZE  :    1024     BIND TIME  : 04:49:28  GROUP MEMBER:
DEGREE      :      1      SERVER      :
  
```

```

VALIDATE    : B ISOLATION: S  VALID     : Y  OPERATIVE  : Y  ACQUIRE   : U
EXPLAIN     : N DEFERPREP: N  SQLRULES: D  DISCONNECT: E  RELEASE    : C
EXPREDICATE: B DYNAMICRULES: KEEPDPY:      REOPT
  
```

----- SQL COUNTS FOR ALL -----

STATEMENTS	=	240	DROP	=	0	REVOKE	=	0
ALTER	=	0	EXECUTE	=	1	ROLLBACK	=	2
CALL	=	0	EXPLAIN	=	0	SELECT	=	22
CLOSE	=	18	FETCH	=	17	SET	=	0
COMMIT	=	0	GRANT	=	0	SET CONNECT	=	0
CONNECT	=	0	INSERT	=	12	SET DEGREE	=	0
CREATE	=	0	LOCK SHR	=	5	SET HOST	=	0
DECLARE CURSOR	=	17	LOCK XCL	=	0	SET PKGSET	=	0
DECLARE STATEMENT	=	0	OPEN	=	17	SET RULES	=	0
DECLARE TABLE	=	46	PREPARE	=	2	SET SQLID	=	0
DELETE	=	3	RELEASE	=	0	UPDATE	=	29
DESCRIBE	=	0				WHENEVER	=	42

----- SQL COUNTS FOR DBRMS -----

STATEMENTS	=	240	DROP	=	0	REVOKE	=	0
ALTER	=	0	EXECUTE	=	1	ROLLBACK	=	2
CLOSE	=	18	EXPLAIN	=	0	SELECT	=	22
COMMIT	=	7	FETCH	=	17	SET	=	0
CONNECT	=	0	GRANT	=	0	SET CONNECT	=	0
CREATE	=	0	INSERT	=	12	SET DEGREE	=	0
DECLARE CURSOR	=	17	LOCK SHR	=	5	SET HOST	=	0
DECLARE STATEMENT	=	0	LOCK XCL	=	0	SET PKGSET	=	0
DECLARE TABLE	=	46	OPEN	=	17	SET SQLID	=	0
DELETE	=	3	PREPARE	=	2	UPDATE	=	29
DESCRIBE	=	0	RELEASE	=	0	WHENEVER	=	42

----- SQL COUNTS FOR PACKAGES -----

STATEMENTS	=	0	DROP	=	0	REVOKE	=	0
ALTER	=	0	EXECUTE	=	0	ROLLBACK	=	0
CLOSE	=	0	EXPLAIN	=	0	SELECT	=	0
COMMIT	=	0	FETCH	=	0	SET	=	0
CONNECT	=	0	GRANT	=	0	SET CONNECT	=	0
CREATE	=	0	INSERT	=	0	SET DEGREE	=	0
DECLARE CURSOR	=	0	LOCK SHR	=	0	SET HOST	=	0
DECLARE STATEMENT	=	0	LOCK XCL	=	0	SET PKGSET	=	0
DECLARE TABLE	=	0	OPEN	=	0	SET SQLID	=	0
DELETE	=	0	PREPARE	=	0	UPDATE	=	0
DESCRIBE	=	0	RELEASE	=	0	WHENEVER	=	0

***** BOTTOM OF LIST *****

Panels (continued)

The Plan Information panel lists a summary of Plan information and presents BIND options currently in use for a specific plan. Statement totals are also provided. This panel is scrollable.

```

----- DB/EXPLAIN DB2=D42B ----- LINE1 OF 48
Cmd ==>                                SCROLL ==> PAGE

                P L A N   I N F O R M A T I O N

Cmds: GLOBAL (Menu)
-----
PLAN NAME   : BOSTONN      CREATOR   : GDEMI      PLENTRIES :    0
PLAN FREED? : N           QUALIFIER : KFOR      SYSENTRIES:    0
AVERAGE SIZE:    0       BOUND BY  : GDEMI2   DBRMS     :    1
PLAN SIZE   :   3336     BIND DATE: 1999/11/26 PACKAGES  :    0
CACHE SIZE  :   1024    BIND TIME: 04:49:28 GROUP MEMBER:
DEGREE     :    1       SERVER    :

VALIDATE   : B ISOLATION: S VALID   : Y OPERATIVE : Y ACQUIRE : U
EXPLAIN    : N DEFERPREP: N SQLRULES: D DISCONNECT: E RELEASE  : C
EXPREDICATE: B DYNAMICRULES: KEEPDPY: REOPT

----- SQL COUNTS FOR ALL -----
STATEMENTS = 240 DROP = 0 REVOKE = 0
ALTER       = 0 EXECUTE = 1 ROLLBACK = 2
CALL        = 0 EXPLAIN = 0 SELECT = 22
CLOSE       = 18 FETCH  = 17 SET = 0
COMMIT      = 0 GRANT   = 0 SET CONNECT = 0
CONNECT     = 0 INSERT  = 12 SET DEGREE = 0
CREATE      = 0 LOCK SHR = 5 SET HOST = 0
DECLARE CURSOR = 17 LOCK XCL = 0 SET PKGSET = 0
DECLARE STATEMENT = 0 OPEN = 17 SET RULES = 0
DECLARE TABLE = 46 PREPARE = 2 SET SQLID = 0
DELETE      = 3 RELEASE = 0 UPDATE = 29
DESCRIBE    = 0         = 0 WHENEVER = 42

----- SQL COUNTS FOR DBRMS -----
STATEMENTS = 240 DROP = 0 REVOKE = 0
ALTER       = 0 EXECUTE = 1 ROLLBACK = 2
CLOSE       = 18 EXPLAIN = 0 SELECT = 22
COMMIT      = 7 FETCH  = 17 SET = 0
CONNECT     = 0 GRANT   = 0 SET CONNECT = 0
CREATE      = 0 INSERT  = 12 SET DEGREE = 0
DECLARE CURSOR = 17 LOCK SHR = 5 SET HOST = 0
DECLARE STATEMENT = 0 LOCK XCL = 0 SET PKGSET = 0
DECLARE TABLE = 46 OPEN = 17 SET SQLID = 0
DELETE      = 3 PREPARE = 2 UPDATE = 29
DESCRIBE    = 0 RELEASE = 0 WHENEVER = 42

----- SQL COUNTS FOR PACKAGES -----
STATEMENTS = 0 DROP = 0 REVOKE = 0
ALTER       = 0 EXECUTE = 0 ROLLBACK = 0
CLOSE       = 0 EXPLAIN = 0 SELECT = 0
COMMIT      = 0 FETCH  = 0 SET = 0
CONNECT     = 0 GRANT   = 0 SET CONNECT = 0
CREATE      = 0 INSERT  = 0 SET DEGREE = 0
DECLARE CURSOR = 0 LOCK SHR = 0 SET HOST = 0
DECLARE STATEMENT = 0 LOCK XCL = 0 SET PKGSET = 0
DECLARE TABLE = 0 OPEN = 0 SET SQLID = 0
DELETE      = 0 PREPARE = 0 UPDATE = 0
DESCRIBE    = 0 RELEASE = 0 WHENEVER = 0
***** BOTTOM OF LIST *****

```

Fields and Associated Sorts and Filters

The following table describes the fields, sorts, and filters on the Plans panel and its associated information panel. Format I designates the information panel.

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
AC (Acquire)	5, I	When resources are acquired: A At allocation U Use Source: SYSIBM.SYSPLAN.ACQUIRE	PACQ
ALTER (All)	I	Total number of ALTER statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#AL
ALTER (DBRMs)	I	Total number of ALTER statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#AL
ALTER (Packages)	I	Total number of ALTER statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#AL
AVGSIZE (Average Size)	5, I	Average size measured in bytes of the plan section processed at BIND time. Source: SYSIBM.SYSPLAN.AVGSIZE	PAVS
BIND DATE	4, 6, I	Date on which the plan was last bound. Source: SYSIBM.SYSPLAN.BINDDATE	PBDT
BIND TIME	4, 6, I	Time the plan was last bound. Source: SYSIBM.SYSPLAN.BINDTIME	PBDT
BOUND BY	4, 6, I	Primary authorization ID of the binder of the plan. Source: SYSIBM.SYSPLAN.BOUNDBY	PBBY
CACHESZ (Cache Size)	5, I	Size measured in bytes of the cache to be acquired for the plan. Source: SYSIBM.SYSPLAN.CACHESIZE	PCHSZ
CALL (All)	I	Number of CALL statements in the plan Source: SYSIBM.SYSPACKAGE.CALL	P#CA
CALL (DBRMs)	I	Number of CALL statements for DBRMs in the plan Source: SYSIBM.SYSPACKAGE.CALL	PDCA
CALL (Packages)	I	Number of CALL statements for packages in the plan Source: SYSIBM.SYSPACKAGE.CALL	PKCA

Plans

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
CD	5, I	Indicates the current data option when this plan was either bound or rebound. Source: SYSIBM.SYSPLAN.EXPREDICATE B Data currency not required for ambiguous cursors. Allow blocking on ambiguous cursors. C Data currency required for ambiguous cursors. Inhibit blocking for ambiguous cursors. N Blocking is inhibited for ambiguous cursors, but the plan was created before the CURRENTDATA option was available. blank The value was not extracted. Reextract the plan to obtain the value.	PEXPR
CLOSE (All)	I	Total number of CLOSE statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#CL
CLOSE (DBRMs)	I	Total number of CLOSE statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#CL
CLOSE (Packages)	I	Total number of CLOSE statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#CL
COMMIT (All)	I	Total number of COMMIT statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#CM
COMMIT (DBRMs)	I	Total number of COMMIT statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#CM
COMMIT (Packages)	I	Total number of COMMIT statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#CM
CONNECT (All)	I	Total number of CONNECT statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#CN
CONNECT (DBRMs)	I	Total number of CONNECT statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#CN
CONNECT (Packages)	I	Total number of CONNECT statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#CN

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
COUNT (All)	1	Number of DBRMs and packages used as input for this plan. Source: SYSIBM.SYSDBRM Source: SYSIBM.SYSPACKAGE	P#DP
COUNT (DBRMs)	3	Number of DBRMs used as input for this plan. Source: SYSIBM.SYSDBRM	P#DB
COUNT (Packages)	2	Number of packages used as input for this plan. Source: SYSIBM.SYSPACKAGE	P#KA
CREATE (All)	I	Total number of CREATE statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#CR
CREATE (DBRMs)	I	Total number of CREATE statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#CR
CREATE (Packages)	I	Total number of CREATE statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#CR
CREATOR	4, I	Authorization ID of the owner of the application plan. Source: SYSIBM.SYSPLAN.CREATOR	PCR
DBRMs	I	Number of DBRMs bound into the plan. Source: SYSIBM.SYSDBRM	P#DB
DCL CSR (Declare Cursor)	1, 2, 3	Total number of DECLARE CURSOR statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#DC
DECLARE CURSOR (All)	I	Total number of DECLARE CURSOR statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#DC
DECLARE CURSOR (DBRMs)	I	Total number of DECLARE CURSOR statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#DC
DECLARE CURSOR (Packages)	I	Total number of DECLARE CURSOR statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#DC
DECLARE STATEMENT (All)	I	Total number of DECLARE STATEMENT statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#DM
DECLARE STATEMENT (DBRMs)	I	Total number of DECLARE STATEMENT statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#DM
DECLARE STATEMENT (Packages)	I	Total number of DECLARE STATEMENT statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#DM

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
DECLARE TABLE (All)	I	Total number of DECLARE TABLE statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#DT
DECLARE TABLE (DBRMs)	I	Total number of DECLARE TABLE statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#DT
DECLARE TABLE (Packages)	I	Total number of DECLARE TABLE statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#DT
DEGREE	I	The DEGREE option used when the plan was bound. Source: SYSIBM.SYSPLAN.DEGREE	PDEGR
DELETES (All)	1, I	Total number of DELETE statements. Source: SYSIBM.SYSSTMT Source: SYSIBM.SYSPACKSTMT	P#DL
DELETES (DBRMs)	3, I	Total number of DELETE statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#DL
DELETES (Packages)	2, I	Total number of DELETE statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#DL
DESCRIBE (All)	I	Total number of DESCRIBE statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#DS
DESCRIBE (DBRMs)	I	Total number of DESCRIBE statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#DS
DESCRIBE (Packages)	I	Total number of DESCRIBE statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#DS
DG	5	DEGREE option used when the panel was bound. Its value may be: 1 I/O parallelism is disabled. A Any. I/O parallelism value is set by underlying DB2 subsystem. blank The default 1, I/O parallelism is disabled, is used. Source: SYSIBM.SYSPACKAGE.DEGREE	PDEGR

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
DI	5	DISCONNECT option used when the plan was bound. Its value may be: E Explicit—Disconnect must be explicitly specified. A Disconnect is automatic. C Disconnect is conditional. blank The default, E , is used. Source: SYSIBM.SYSPLAN.DISCONNECT	PDISC
DISCONNECT	I	DISCONNECT option used when the Plan was bound. Source: SYSIBM.SYSPLAN.DISCONNECT	PDISC
DP (Deferpre)	1, I	Determines whether preparation is to be deferred. Y Preparation is deferred. N Preparation is not deferred. Source: SYSIBM.SYSPLANS.DEFERPREP	PDFP
DR	5	The DYNAMICRULES option used when the plan was bound. B Dynamic SQL statements are handled like static SQL statements at run time. blank Dynamic SQL statements are handled like dynamic SQL statements at run time or the DB2 subsystem is not at least V4. Source: SYSIBM.SYSPLAN.DYNAMICRULES	PDYNR
DROP (All)	I	Total number of DROP statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#DR
DROP (DBRMs)	I	Total number of DROP statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#DR
DROP (Packages)	I	Total number of DROP statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#DR
DYNAMICRULES	I	The DYNAMICRULES option used when the plan was bound. B Dynamic SQL statements are handled like static SQL statements at run time. blank Dynamic SQL statements are handled like dynamic SQL statements at run time or the DB2 subsystem is not at least V4. Source: SYSIBM.SYSPLAN.DYNAMICRULES	PDYNR
EXECUTE (All)	I	Total number of EXECUTE statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#EC

Plans

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
EXECUTE (DBRMs)	I	Total number of EXECUTE statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#EC
EXECUTE (Packages)	I	Total number of EXECUTE statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#EC
EX (EXPLAIN)	5, I	EXPLAIN at BIND? Y Yes N No Source: SYSIBM.SYSPLANS.EXPLAN	PXPL
EXPLAIN (All)	I	Total number of EXPLAIN statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#EX
EXPLAIN (DBRMs)	I	Total number of EXPLAIN statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#EX
EXPLAIN (Packages)	I	Total number of EXPLAIN statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#EX
EXPREDICATE	I	Indicates the CURRENTDATA option when the Plan was bound or rebound. B Data currency is not required for ambiguous cursors. Allow blocking for ambiguous cursors. C Data currency is required for ambiguous cursors. Inhibit blocking for ambiguous cursors. N Blocking is inhibited for ambiguous cursors but the Plan was created before the CURRENTDATA option was available. Source: SYSIBM.SYSPLAN.EXPREDICATE	PEXPR
FETCH (All)	I	Total number of FETCH statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#FT
FETCH (DBRMs)	I	Total number of FETCH statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#FT
FETCH (Packages)	I	Total number of FETCH statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#FT
FREED?	I	Has plan been FREEd? Y Yes N No Source: Derived	PFRE

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
GRANT (All)	I	Total number of GRANT statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#GR
GRANT (DBRMs)	I	Total number of GRANT statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#GR
GRANT (Packages)	I	Total number of GRANT statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#GR
GROUP MEMBER	6, I	The DB2 data sharing member name of the DB2 subsystem that performed the most recent BIND. Source: SYSIBM.SYSPLAN.GROUP_MEMBER	PGRP
INSERTS (All)	1, I	Total number of INSERT statements. Source: SYSIBM.SYSSTMT Source: SYSIBM.SYSPACKSTMT	P#IN
INSERTS (DBRMs)	3, I	Total number of INSERT statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#IN
INSERTS (Packages)	2, I	Total number of INSERT statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#IN
IS (Isolation)	5, I	Isolation Level: R RR (Repeatable Read). S CS (Cursor Stability). T RS (Read Stability). U UR (Uncommitted Read). Source: SYSIBM.SYSPLAN.ISOLATION	PISO
KD (KEEPDYNAMIC)	2, I	Indicates the KEEPDYNAMIC option when the plan was bound or or rebound. Source: SYSPLAN.KEEPDYNAMIC	PKEEP
LOCK SHR (All)	1, I	Total number of LOCK SHR statements. Source: SYSIBM.SYSSTMT Source: SYSIBM.SYSPACKSTMT	P#LS
LOCK SHR (DBRMs)	3, I	Total number of LOCK SHR statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#LS
LCK SHR (Packages)	2, I	Total number of LOCK SHR statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#LS
LOCK XCL (ALL)	1, I	Total number of LOCK XCL statements. Source: SYSIBM.SYSSTMT Source: SYSIBM.SYSPACKSTMT	P#LX

Plans

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
LOCK XCL (DBRMs)	3, I	Total number of LOCK XCL statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#LX
LOCK XCL (Packages)	2, I	Total number of LOCK XCL statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#LX
OPEN (All)	I	Total number of OPEN statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#OP
OPEN (DBRMs)	I	Total number of OPEN statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#OP
OPEN (Packages)	I	Total number of OPEN statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#OP
OP (Operative)	5, I	Indicates whether the plan is operative. Y Yes N No. An explicit BIND or REBIND is required first. Source: SYSIBM.SYSPLAN.OPERATIVE	POPR
P#TS	Filter panel	Total number of DECLARE CURSOR and SELECT statements in plans. Source: SYSIBM.SYSSTMT	P#TS
PD#TS	Filter panel	Total number of DECLARE CURSOR and SELECT statements in DBRMs. Source: SYSIBM.SYSSTMT	PD#TS
PK#TS	Filter panel	Total number of DECLARE CURSOR and SELECT statements in packages. Source: SYSIBM.SYSSTMT	PK#TS
PACKAGES	I	Number of packages bound into the plan. Source: SYSIBM.SYSPACKAGE	P#KA
PLAN	1, 2, 3, 4, 5, 6, I	Name of the application plan. The list is in alphabetic order. Source: SYSIBM.SYSPLAN.NAME	PLAN
PLAN FREED?	I	Has plan been FREEd? Y Yes N No Source: Derived	PFRE
PLENTRIES	5, I	Number of package list entries for the plan. This number will be a negative value if there are rows for the plan but the plan was bound in a prior release after fall back. Source: SYSIBM.SYSPLAN.PLENTRIES	PPLEN

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
PLSIZE (Plan Size)	5, I	Size measured in bytes of the base section of the plan. Source: SYSIBM.SYSPLAN.PLSIZE	PPSZ
PREPARE (All)	I	Total number of PREPARE statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#PR
PREPARE (DBRMs)	I	Total number of PREPARE statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#PR
PREPARE (Packages)	I	Total number of PREPARE statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#PR
QUALIFIER	4, I	Implicit qualifier for the unqualified table, view, index, and alias names in the static SQL statements of the plan. Source: SYSIBM.SYSPLAN.QUALIFIER	PQLF
RE (Release)	5, I	When resources are released: C At commit D At deallocation Source: SYSIBM.SYSPLAN.RELEASE	PRLS
RELEASE (All)	I	Total number of RELEASE SQL statements in the Plan. Source: SYSIBM.SYSSTMT	P#RE
RELEASE (DBRMs)	I	Number of RELEASE SQL statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#RE
RELEASE (Packages)	I	Number of RELEASE SQL statements from Packages. Source: SYSIBM.SYSSTMT	PK#RE
REVOKE (All)	I	Total number of REVOKE statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#RV
REVOKE (DBRMs)	I	Total number of REVOKE statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#RV
REVOKE (Packages)	I	Total number of REVOKE statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#RV
RO(REOPTVAR)	I	Indicates the REOPT option when the plan was bound or rebound. Source: SYSPLAN.REOPTVAR	PROPT
ROLLBACK (All)	I	Total number of ROLLBACK statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#RL

Plans

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
ROLLBACK (DBRMs)	I	Total number of ROLLBACK statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#RL
ROLLBACK (Packages)	I	Total number of ROLLBACK statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#RL
SELECTS (All)	1, I	Total number of SELECT statements. Source: SYSIBM.SYSSTMT Source: SYSIBM.SYSPACKSTMT	P#SE
SELECTS (DBRMs)	3, I	Total number of SELECT statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#SE
SELECTS (Packages)	2, I	Total number of SELECT statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#SE
SERVER	4, 6, I	Location name specified with the CURRENTSERVER option when the plan was last bound. Blank if none was specified. Source: SYSIBM.SYSPLAN.CURRENTSERVER	PSRV
SET (All)	I	Total number of SET statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#ST
SET (DBRMs)	I	Total number of SET statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#ST
SET (Packages)	I	Total number of SET statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#ST
SET CONNECT (All)	I	Number of SET CONNECTION SQL statements in the Plan. Source: SYSIBM.SYSSTMT	P#SC
SET CONNECT (DBRMs)	I	Number of SET CONNECTION SQL statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#SC
SET CONNECT (Packages)	I	The number of SET CONNECTION SQL statements from Packages. Source: SYSIBM.SYSSTMT	PK#SC
SET DEGREE (All)	I	Total number of SET CURRENT DEGREE statements in the Plan. Source: SYSIBM.SYSSTMT	P#SD
SET DEGREE (DBRMs)	I	Number of SET CURRENT DEGREE statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#SD

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
SET DEGREE (Packages)	I	The number of SET CURRENT DEGREE statements from Packages. Source: SYSIBM.SYSSTMT	PK#SD
SET HOST (All)	I	Total number of SET host variable SQL statements in the Plan. Source: SYSIBM.SYSSTMT	P#SH
SET HOST (DBRMs)	I	Number of SET host variable SQL statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#SH
SET HOST (Packages)	I	The number of SET host variable SQL statements from Packages. Source: SYSIBM.SYSSTMT	PK#SH
SET PKGSET (All)	I	Total number of SET CURRENT PACKAGESET SQL statements in the Plan. Source: SYSIBM.SYSSTMT	P#SP
SET PKGSET (DBRMs)	I	Number of SET CURRENT PACKAGESET SQL statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#SP
SET PKGSET (Packages)	I	The number of SET CURRENT PACKAGESET SQL statements from Packages. Source: SYSIBM.SYSSTMT	PK#SP
SET RULES (All)	I	Number of SET CURRENT RULES statements in the plan Source: SYSIBM.SYSSTMT , or Source: SYSIBM.SYSPACKSTMT	P#SR
SET RULES (DBRMs)	I	Number of SET CURRENT RULES statements for DBRMs in the plan Source: SYSIBM.SYSSTMT , or Source: SYSIBM.SYSPACKSTMT	PD#SR
SET RULES (Packages)	I	Number of SET CURRENT RULES statements for packages in the plan Source: SYSIBM.SYSSTMT , or Source: SYSIBM.SYSPACKSTMT	PK#SR
SET SQLID (All)	I	Total number of SET CURRENT SQLID SQL statements in the Plan. Source: SYSIBM.SYSSTMT	P#SS
SET SQLID (DBRMs)	I	Number of SET CURRENT SQLID SQL statements From DBRMs. Source: SYSIBM.SYSSTMT	PD#SS
SET SQLID (Packages)	I	The number of SET CURRENT SQLID SQL statements from Packages. Source: SYSIBM.SYSSTMT	PK#SS

Plans

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
SQ	5	SQLRULES option used when the plan was bound. Its value may be: D Use DB2 SQL rules. S Use standard SQL rules. blank The default, D is used. Source: SYSIBM.SYSPLAN.SQLRULES	PSQLR
SQLRULES	I	SQLRULES option used when the Plan was bound. Source: SYSIBM.SYSPLAN.SQLRULES	PSQLR
STMTS (All)	1, I	Total number of statements. Source: SYSIBM.SYSSTMT Source: SYSIBM.SYSPACKSTMT	P#TL
STMTS (DBRMs)	3, I	Total number of statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#TL
STMTS (Packages)	2, I	Total number of statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#TL
SYSENTRIES	5, I	Total number of connections (rows in SYSIBM.SYSPLSYSTEM). Source: SYSIBM.SYSPLAN.SYSENTRIES	PSYEN
UPDATES (All)	1, I	Total number of UPDATE statements. Source: SYSIBM.SYSSTMT Source: SYSIBM.SYSPACKSTMT	P#UP
UPDATES (DBRMs)	3, I	Total number of UPDATE statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#UP
UPDATES (Packages)	2, I	Total number of UPDATE statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#UP
VA (Validate)	5, I	Can validity checking be deferred until run time? B All checking must be done at BIND R Checking is deferred if tables, views or privileges do not exist at BIND time Source: SYSIBM.SYSPLAN.VALIDATE	PVLT

FIELD	ON FORMAT...	DESCRIPTION	SORTS/ FILTERS
VD (Valid)	5, I	Indicates whether the plan is valid. Y Yes N No A Table or table space altered; no rebinding needed H Table has been altered, but plan is still valid if using DB2 Version 5.1 or greater Source: SYSIBM.SYSPLAN.VALID	PVLD
VL (Verification)	5, I	Results of plan verification. Possible values include: N The Plan was not verified. Y The Plan was verified successfully. E Plan verification was unsuccessful. Source: Derived	PVRF
WHENEVER (All)	I	Total number of WHENEVER statements. Source: SYSIBM.SYSSTMT + SYSIBM.SYSPACKSTMT	P#WH
WHENEVER (DBRMs)	I	Total number of WHENEVER statements from DBRMs. Source: SYSIBM.SYSSTMT	PD#WH
WHENEVER (Packages)	I	Total number of WHENEVER statements from packages. Source: SYSIBM.SYSPACKSTMT	PK#WH

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
@	Remote EXPLAIN and gather statistics.	EXPLAIN (KTEPEXPL)
#	Remote EXPLAIN but do not gather statistics.	EXPLAIN (KTEPEXPL)
A	Display OMEGAMON II for DB2 Application Trace Facility. Note: You must know the name of the data set containing this history information to use this facility. For more information, see "Historical Reporter Options" in the <i>OMEGAMON II for DB2 Historical Reporting Guide</i> .	OMEGAMON II for DB2 ATF
B	Generate a BIND statement for the selected plan.	BIND Plan (KTEPBIPL)
C	Compare the results of the latest !DB/EXPLAIN EXPLAIN for a selected plan with the results of performing a BIND EXPLAIN (YES).	EXPLAIN Compare (KTEPCMPR)
D	List all DBRMs for the selected plan.	DBRMs (KTEPDBRM)

Plans

SELECT	DESCRIPTION	TAKES YOU TO...
E	EXPLAIN a plan and gather statistics.	EXPLAIN (KTEPEXPL)
F	Generate FREE plan.	Output Options (KTEPOUTP)
G	Display Cost details for the selected plan.	Cost (KTEPCOST)
H	Display the EXPLAIN history for the selected plan.	EXPLAIN History (KTEPHIST)
I	Display detailed plan information including BIND options.	Plan Information (KTEPPLIN)
J	Select 2 plans with J and compare plan attributes.	Compare History (KTEPJHIS)
K	Display the packages associated with a selected plan.	Packages (KTEPKACK)
L	Display the EXPLAIN output from the latest EXPLAIN of a selected plan.	EXPLAIN (KTEPEXPL)
M	Display the selected plan's package list.	Package List (KTEPPLPK)
N	Display all connections for the selected plan.	Plan Connections (KTEPPCON)
P	Display OMEGAMON II for DB2 Accounting Reports. Note: You must know the name of the data set containing this history information to use this facility. You can change the name of the data set by using the OMEGAMON II for DB2 OPTIONS command. For more information, see "Historical Reporter Options" in the <i>OMEGAMON II for DB2 Historical Reporting Guide</i> .	OMEGAMON II for DB2 Accounting Reports
Q	Display all collections associated with the selected plan.	Collections (KTEPCLTN)
R	Generate a REBIND statement for the selected plan.	BIND/REBIND panel (KTEPBIPL)
S	List all the SQL statements for each DBRM and package in the plan.	Statements (KTEPSTMT)
T	Display tables for all DB2 tables, views, or aliases referenced by any SQL INSERT, SELECT, UPDATE, DELETE, LOCK, or DECLARE CURSOR statement in any DBRM or package.	Tables (KTEPTABL)
U	EXPLAIN a plan (do not gather statistics).	EXPLAIN (KTEPEXPL)
V	Verify the plan.	Plan Verification (KTEPPVER)
W	Perform Whatif analysis on the selected plan.	Whatif (KTEPWHIF)
X	Display Exceptions that exist for each SQL statement in the selected Plan.	Exceptions (KTEPXCPT)
Z	Generate the BIND conversion statements required to convert the DBRM to a Package and include the Package in the Plan.	Exceptions (KTEPXCPT)
8	Explain and display only DBRMs that have not been EXPLAINed—gather catalog statistics.	EXPLAIN (KTEPEXPL)
9	Explain and display only DBRMs that have not been EXPLAINed—do not gather catalog statistics.	EXPLAIN (KTEPEXPL)

Commands

COMMAND	DESCRIPTION	TAKES YOU TO...
BIND	Generate BIND statements for all active plans.	BIND Plan (KTEPBIPL)
BINDADD	BIND ACTION(ADD).	BIND Plan (KTEPBIPL)
BINDCNV	Generate the BIND commands needed to convert all the DBRMs bound into the Plan to Packages and include the Packages in the Plan.	BIND Plan (KTEPBIPL)
BINDEXP	BIND EXPLAIN(YES).	BIND Plan (KTEPBIPL)
BINDREP	BIND ACTION(REPLACE).	BIND Plan (KTEPBIPL)
COMPARE	Perform a BIND COMPARE of each Plan on the current display according to the options set on the Bind Compare Options Housekeeping Panel KTEPHOBC.	EXPLAIN Compare (KTEPCMPR)
COST	Display statement costs.	Costs (KTEPCOST)
DROP	Generate FREE statements.	Output Options (KTEPOUTP)
EXPL	EXPLAIN all items that have not been EXPLAINed since they were last bound.	EXPLAIN (KTEPEXPL)
EXPLA	EXPLAIN all regardless of BIND time and do not gather statistics. Also display latest EXPLAIN for previously EXPLAINed plans.	EXPLAIN (KTEPEXPL)
EXPLAR	Remote EXPLAIN all items regardless of BIND time, and do not gather statistics.	EXPLAIN (KTEPEXPL)
EXPLO	EXPLAIN and display only Plans that have not been EXPLAINed since they were last bound. Do not gather catalog statistics.	EXPLAIN (KTEPEXPL)
EXPLOR	Remote EXPLAIN and display only Plans that have not been EXPLAINed since they were last bound. Do not gather catalog statistics.	EXPLAIN (KTEPEXPL)
EXPLR	Remote EXPLAIN all items that have not been EXPLAINed since they were last bound. Also display latest EXPLAIN for previously EXPLAINed plans.	EXPLAIN (KTEPEXPL)
GEXPL	EXPLAIN all items on the list that have not been EXPLAINed since they were last bound and gather statistics. Also display latest EXPLAIN for previously EXPLAINed plans.	EXPLAIN (KTEPEXPL)
GEXPLA	EXPLAIN all items on the list and gather statistics regardless of BIND time.	EXPLAIN (KTEPEXPL)
GEXPLAR	Remote EXPLAIN all items on the list and gather statistics regardless of BIND time.	EXPLAIN (KTEPEXPL)
GEXPLO	EXPLAIN and display only packages that have not been EXPLAINed since they were last bound. Gather catalog statistics.	EXPLAIN (KTEPEXPL)
GEXPLOR	Remote EXPLAIN and display only packages that have not been EXPLAINed since they were last bound. Gather catalog statistics.	EXPLAIN (KTEPEXPL)

COMMAND	DESCRIPTION	TAKES YOU TO...
GEXPLR	Remote EXPLAIN all items on the list that have not been EXPLAINed since they were last bound and gather statistics. Also display latest EXPLAIN for previously EXPLAINed plans.	EXPLAIN (KTEPEXPL)
HIST	Display Plan History.	
IMPACT	Compare each nonhistorical plan with its most recent historical counterpart.	Compare History (KTEPJHIS)
INFO	Display Plan Information.	Plan Information (I)
LEXPL	Display latest EXPLAIN.	EXPLAIN (KTEPEXPL)
LEHIST	Display latest EXPLAIN History.	EXPLAIN History (KTEPHIST)
NOHIST	Reset History.	EXPLAIN History (KTEPHIST)
REBIND	Generate REBIND statements.	BIND/REBIND (KTEPBIPL)
REINDEX	On a REBIND, forces EXPLAIN(YES).	Output Options (KTEPOUTP)
XCPT	Display Exceptions.	Exceptions (KTEPXCPT)

A note about compares

In V235, another layer of information has been added to your compare processing. Typically, when you are on the Plans, Packages, or DBRMS panel, you can issue the IMPACT command (or the J select) to obtain compare history information. The IMPACT command or J select compares such things as precompile options, owners, or qualifiers.

CEXPL is issued from the Compare History panel and compares EXPLAINs.

Primary Menu

Overview

This unit describes the !DB/EXPLAIN Primary Menu.

Background about the Primary Menu

The Primary Menu (KTEPMENU) provides entry to !DB/EXPLAIN. You can find more information about !DB/EXPLAIN's Primary Menu and its functions in the chapter "Accessing !DB/EXPLAIN Functions" in the *!DB/EXPLAIN User's Guide*.

Access

You access the !DB/EXPLAIN Primary Menu from the !DB/Tools Product Selection Menu or when entering the product from TSO by means of a CLIST.

Panel

The following illustration shows the Primary Menu panel.

```
----- DB/EXPLAIN DB2=DB31 -----
Cmd ==>

                P R I M A R Y   M E N U

Option ==>

      1 Plans                Extract ID      ==> DB31____
      2 DBRMs
      3 Packages             Display Masks? ==> N
      4 Collections          Masking in effect? ==> N
      5 Tables
      6 Libraries
      7 Costs
      8 Exceptions

      9 JCL Generation
     10 Dynamic SQL
     11 Administration Menu

                                Version: 500 Maint. Level: 9503 PSP: 0
----- (C) Copyright CANDLE Corp. 1993 - 1999 -----
```

Fields

FIELD	DESCRIPTION
DISPLAY MASKS?	Indicates whether or not the Selection Masking panel (KTEPHOMK) will be displayed. Y Yes N No
EXTRACT ID	1-8 character ID that specifies the extract. Candle Corp. recommends using the DB2 Subsystem ID (SSID) as the first characters of the extract ID to allow for easy tracking of extracts
FUNCTION	This numeric field represents which function or command to invoke: 1 Plans (KTEPPPLAN) 2 DBRMs (KTEPDDBRM) 3 Packages (KTEPKACK) 4 Collections (KTEPCLTN) 5 Tables (KTEPTABL) 6 Libraries (KTEPLIBR) 7 DB2 Costs (KTEPCOST) 8 Exceptions (KTEPXCPT) 9 JCL Generation (KTEPJCLE) 10 Dynamic SQL (SFXPSQLI) 11 Administration Menu (KTEPADMN)
MASKING IN EFFECT?	Indicates whether or not there are masks specified on the Selection Masking panel (KTEPHOMK). Y Yes N No

Sessions Menu

Overview

This unit describes the Sessions Menu.

Background about the Sessions Menu

The Sessions Menu (KTEPSWCH) shows a list of available !DB/EXPLAIN functions. The functions are the same as those on the !DB/EXPLAIN Primary Menu; however, by using the Sessions Menu you can have several !DB/EXPLAIN functions active at the same time and move between them.

The session you are currently in is denoted by a “C” on the line next to it; other active sessions are denoted by an “A”. You can find out more about the Sessions Menu in the unit “Access from the Sessions Menu” in the *!DB/EXPLAIN User's Guide*.

Access

The Sessions Menu is accessed by entering “/” on the command line of most panels.

Panel

The following illustration shows the Sessions Menu panel.

```
                SESSIONS
Select ==> 7
1. //  A Main Session
2. /P  Plans
3. /D  DBRMs
4. /K  Packages
5. /Q  Collections
6. /T  C Tables
7. /L  Libraries
8. /C  Costs
9. /X  Exceptions
```

Statements

Overview

This unit describes the Statements panel.

Background about the Statements panel

The Statements panel (KTEPSTMT) lists SQL statements.

Formats

This panel is available in three formats:

Format	Displayed fields
Format 1	First line of SQL text
Format 2	Expanded SQL text for all statements
Format 3	Expanded SQL text for EXPLAINable statements only

Access

You can access this panel through the DBRMs, Packages, Plans, or Tables panels, or through macros, execs, and CLISTs such as KTEXPL (ISPF edit) and KTEQMF (QMF Bridge). See “Accessing and Exiting !DB/EXPLAIN” in the *!DB/EXPLAIN User's Guide* for more information.

Panels

The following illustration shows the Statements panel.

```

----- DB/EXPLAIN DB2=D42B ----- LINE 1 OF 13
Cmd ==>                               SCROLL ==> CSR

                                S T A T E M E N T S
                                C m d s : D O ( M e n u ) G L O B A L ( M e n u )                               S e l e c t s : ? ( M e n u )
-----

      STMT  S I C
SEL   NO   T S H  SQL TEXT
-----
      PACKAGE=DSNHYCRD  COLLID=DSNHYCRD          CONTOKEN=155403E6085555E10
      PRECOMPILE=1999/02/13 07:38:37.843832
      -   1051      N DECLARE CURSOR1 CURSOR FOR
      -   1056      N DECLARE CURSOR2 CURSOR FOR
      -   204       N SELECT TYPE , COLCOUNT
      -   277       N OPEN CURSOR1
      -   278       N FETCH CURSOR1
      -   360       N FETCH CURSOR1
      -   375       N CLOSE CURSOR1
      -   420       N OPEN CURSOR2
      -   421       N FETCH CURSOR2
      -   637       N FETCH CURSOR2
      -   652       N CLOSE CURSOR2
***** BOTTOM OF LIST *****

```

If the extract has discarded a statement or statements from the associated DBRM, the Statements panel displays the message: **Extract Discarded Statements.**

You can enter various selects on the Statements panel. Entering R causes !DB/EXPLAIN to display this Recommendations panel.

Statements

```
----- DB/EXPLAIN DB2=D31A -----  
CMD ==> SCROLL ==> PAGE
```

R E C O M M E N D A T I O N S

Cmds: GLOBAL (Menu)

```
-----  
PLAN=DBT925E DBRM=DSDDDB2UP CONTOKEN=1470006C10B79FB4  
PRECOMPILE=1999/02/23 11:42:08.610000  
VERSION=
```

STATEMENT NUMBER 373

RECOMMENDATION 000002

Tablespace SYSDBASE has a LOCKSIZE of ANY. Lock escalation may occur. If concurrency is of utmost importance for applications referencing this tablespace then LOCKSIZE(PAGE) may be a better choice.

When LOCKSIZE ANY is specified, the number of locks that any program can hold within a table space is limited by the value specified for LOCKS PER TABLE(SPACE) when DB2 was installed. When the number of page locks reaches the limit, a tablespace lock is acquired and all of the page locks are released. When LOCKSIZE PAGE is specified, lock escalation will not occur.

Panels (continued)

On the Statements panel, if you select a statement with the **H** select, !DB/EXPLAIN displays the Host Variables panel.

If you select a statement with the **Z** select and the statement contains host variables, !DB/EXPLAIN displays the Host Variables panel. If there are no host variables in the statement you selected, the Host Variables panel is not displayed.

You can enter values for the host variables before executing the statement. If you accessed the Host Variables panel using the **H** select, the panel lists all of the host variables referenced by the SQL statement you selected. If you accessed the Host Variables panel using the **Z** select, the panel lists only those host variables needed to execute the statement you selected.

You can save the host variable values, types, and lengths permanently or temporarily depending on your specification in the Save Values Permanently? field on the Host Variables panel.

```

----- DB/EXPLAIN DB2=DB31 ----- LINE 1 OF 36
Cmd ==>                               Scroll ==> PAGE
                                H O S T   V A R I A B L E S
Cmds: DO (Menu) GLOBAL (Menu)
----- CAPS ON
Enter values for host variables as you would in a dynamic SQL statement.

Save values permanently? ==> Y ( Y Yes  N No )
                               ( Will be saved in USER.PDS(HOSTS) )

Statement Number 458 of DBRM DSDDB2UP

HOST VARIABLE NAME / VALUE      DATA TYPE      LENGTH      SCALE
-----
TMP#EXTS                        SMALLINT        2
TMPASSGN                        INTEGER         4
TMPDBNAM                        CHARACTER       8
TMPDSTYP                        CHARACTER       1
TMPPART#                        SMALLINT        2

```

Panels (continued)

After you have executed a statement, you can use the Y select to show the Statement Execution Summary panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> CSR

                                STATEMENT EXECUTION SUMMARY
                                -----
                                Cnds: GLOBAL (Menu)
                                -----
DB2 SUBSYSTEM      - D31A                COST          -          6.3 TIMERONS
DEFAULT CREATOR   - SYSIBM              ELAPSED TIME   -          0.75 SECS
SET CURRENT SQLID -                     CPU TIME      -          0.10 SECS
CURRENT DEGREE    - ANY                  SERVICE UNITS  -        2,842.00
SQLERRD(3)        -                     ROWS RETURNED -              1
  (ROWS UPDATED)

SELECT NAME , CREATOR , TYPE , DBNAME , TSNAME , DBID , OBID , COLCOUNT ,
EDPROC , VALPROC , CARD , NPAGES , PCTPAGES , PARENTS , CHILDREN ,
KEYCOLUMNS , RECLENGTH , STATUS , KEYOBID , CHECKFLAG , CHECKRID , AUDITING ,
CREATEDBY , LOCATION , TBCRATOR , TBNAME , CREATEDTS , ALTEREDTS ,
DATACAPTURE , RBA1 , RBA2 FROM SYSIBM.SYSTABLES WHERE CRATOR = 'SYSIBM' AND
NAME = 'SYSTABLES'

```


Fields

FIELD	ON PANEL...	DESCRIPTION	FILTERS
C H	KTEPSTMT	<p>A value that identifies whether a user has changed the SQL text of a statement.</p> <p>Y User has changed the SQL statement text N The text of the statement is the original text. A New SQL statement added by the user.</p> <p>The SORNO filter filters on the statement number. If the value of the C H field is either Y or N, then the statement number is that number appearing on the panel. If the value of the C H field is A, then the statement number used is the statement number of the original statement (that is, the true source statement).</p> <p>Source: derived</p>	SCHA SORNO
CURRENT DEGREE	KTEPSTSU	<p>DEGREE at the time the SQL statement was executed.</p> <p>Source: Derived on overrides Source: SYSIBM.SYSPLAN.DEGREE Source: SYSIBM.SYSPACKAGE.DEGREE</p>	
DATA TYPE	KTEPHSVU	<p>Host variable data type.</p> <p>If the SQL statement is typed in by the user and the host variable is not found in the host variable table, the data type will initially be blank.</p> <p>Source: SYSIBM.SYSSTMT.TEXT Source: SYSIBM.SYSPACKSTMT.STMT Source: A DBRM Source: User-entered</p>	HTYPE
DBRM/PACKAGE/ PLAN/TABLE NAME	KTEPSTMT	<p>DBRM, package, plan, or table name</p> <p>This field may be blank if the Statements panel was not accessed through the !DB/EXPLAIN menus.</p> <p>Source: SYSIBM.SYSDBRM.NAME Source: SYSIBM.SYSPACKAGE.NAME Source: SYSIBM.SYSPLAN.NAME Source: SYSIBM.SYSTABLE.NAME</p>	SDBRM
HOST VARIABLE NAME	KTEPHSVU	<p>Host variable name.</p> <p>Source: SYSIBM.SYSSTMT.TEXT Source: SYSIBM.SYSPACKSTMT.STMT Source: Incoming SQL text Source: A DBRM</p>	HOST

Statements

FIELD	ON PANEL...	DESCRIPTION	FILTERS
HOST VARIABLE VALUE	KTEPHSVU	<p>Value of host variable. Enter values as you would in a dynamic SQL statement. If no value is specified, the default value for the data type is used. If the data type of the host variable is known, this field will be long enough to hold the longest value for that data type or the longest special register applicable to the data type of the host variable. If the data type is not known, the length of this field is controlled by the Max Length for Host Var field on the SQL Defaults Housekeeping panel. The maximum input length is 256 characters.</p> <p>Source: User-entered</p>	
IS (Isolation Level)	KTEPSTMT	<p>Isolation level of the statement</p> <p>R RR (Repeatable Read) S CS (Cursor Stability) T RS (Read Stability) U UR (Uncommitted Read)</p> <p>Source: SYSIBM.SYSPACKSTMT.ISOLATION, or Source: SYSIBM.SYSSTMT.ISOLATION</p>	SISO
LENGTH	KTEPHSVU	<p>Length of host variable.</p> <p>If the SQL statement is typed in by the user and the host variable is not found in the host variable table, then the length will default to the value specified in the Max Length for Host Var field of the SQL Defaults Housekeeping panel.</p> <p>Source: SYSIBM.SYSSTMT.TEXT Source: SYSIBM.SYSPACKSTMT.STMT Source: A DBRM</p>	HLENG
(NAME heading) <ul style="list-style-type: none"> ● DBRM ● PLAN ● PACKAGE ● TABLE 	KTEPSTMT	<p>A variable field describing the type of data displayed in the column below it.</p>	
(Plan Information)	KTEPSTMT	<p>This field consists of Plan Name, Plan Owner, and Bound by.</p> <p>This field may be blank if the Statements panel was not accessed through the !DB/EXPLAIN menus.</p> <p>Source: SYSIBM.SYSPLAN.NAME Source: SYSIBM.SYSPLAN.CREATOR Source: SYSIBM.SYSPLAN.BOUNDBY</p>	

FIELD	ON PANEL...	DESCRIPTION	FILTERS
PRECOMPILE DATE	KTEPSTMT	<p>Date the DBRM or Package was precompiled.</p> <p>This field may be blank if the Statements panel was not accessed through the !DB/EXPLAIN menus.</p> <p>Source: SYSIBM.SYSDBRM.PRECOMPDATE PRECOMPTIME</p> <p>Source: SYSIBM.SYSPACKAGE.PCTIMESTAMP</p>	
RECOMMENDATION TEXT	KTEPRECM	<p>Recommendations.</p> <p>Source: Derived</p>	
SAVE VALUES PERMANENTLY?	KTEPHSVU	<p>Determines whether host variable values are saved</p> <p>Y Save the host variable values permanently. They are then available to !DB/EXPLAIN until you request them to be deleted.</p> <p>N Do not permanently save any host variable values.</p> <p>In nonextracted mode (using KTEXPL or KTEON):</p> <ul style="list-style-type: none"> • The host variable table is scanned for a match on the variable name only. The attributes and value for the first host variable matching the name are used. • The host variable attributes (data type, length, or scale) can be entered or changed. If attributes are changed, the host variable table is rescanned to find a value matching the new attributes. 	
SCALE	KTEPHSVU	<p>Scale of host variable.</p> <p>If the SQL statement is typed in by the user and the host variable is not found in the host variable table, then the scale is blank. The scale will also be blank if it is not applicable for the data type.</p> <p>Source: SYSIBM.SYSSTMT.TEXT</p> <p>Source: SYSIBM.SYSPACKSTMT.STMT</p> <p>Source: A DBRM</p>	HSCAL

Statements

FIELD	ON PANEL...	DESCRIPTION	FILTERS
SQL TEXT	KTEPSTMT	<p>Full SQL statement text expanded. Valid values include:</p> <p>Note: Filter SEXPL can take the following values when used with SQL TEXT:</p> <p>SEXPL=Y The SQL statement is EXPLAINable. SEXPL=N The SQL statement is not EXPLAINable. SEXPL=W WHERE CURRENT OF clause is present.</p> <p>Filter STEXT takes the form STEXT=<i>statement text</i>. For example:</p> <ul style="list-style-type: none"> • STEXT=CURSOR WITH HOLD displays all statements with a cursor with hold clause • STEXT=UNION displays all statements with a UNION clause <p>Source: SYSIBM.SYSSTMT.TEXT Source: SYSIBM.SYSPACKSTMT.STMT</p>	SSTTY SCURS SEXPL STEXT
ST(STATUS)	KTEHSTMT	<p>The bind status of the statement. Valid values include:</p> <p>C Compiled statement was bound successfully P Parsed statement did not bind successfully; VALIDATE RUN was used I Statement will be interpreted at execution time E Explain statement D Distributed statement that uses system-directed access R Reoptimized compiled statement; the statement bound successfully, but the access path will re-optimize at execution time using input variable values X Reoptimized parsed statement; the statement bind failed and VALIDATE RUN was used Blank DB2 version is not at least Version 5 or greater</p> <p>Source: SYSPACKSTMT.STATUS or SYSSTMT.STATUS</p>	SSTAT
STMTNO	KTEPSTMT	<p>Statement number of SQL statement causing the exception.</p> <p>Source: SYSIBM.SYSSTMT.STMTNO Source: SYSIBM.SYSPACKSTMT.STMTNO</p>	SSTNO

FIELD	ON PANEL...	DESCRIPTION	FILTERS
VERSION	KTEPSTMT	Version identifier for the DBRM or package. This field may be blank if the product panel was not accessed through the Primary Menu. Source: SYSIBM.SYSDBRM.VERSION Source: SYSIBM.SYSPACKSTMT.VERSION	

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
@	Remote EXPLAIN and gather statistics.	EXPLAIN (KTEPEXPL)
#	Remote EXPLAIN but do not gather statistics.	EXPLAIN (KTEPEXPL)
C	Reset SHOW and SHOWE.	
E	EXPLAIN and gather statistics.	EXPLAIN (KTEPEXPL)
H	Show host variables.	Host Variables (KTEPHSVU)
L	Show latest EXPLAIN.	EXPLAIN (KTEPEXPL)
O	Output to a dataset.	Output Options (KTEPOUTP)
R	Display recommendations.	Recommendations (KTEPSTRC)
S	Show statements.	
U	EXPLAIN but do not gather statistics.	EXPLAIN (KTEPEXPL)
V	Statement execution.	Execution Results (SFXPSQLX)
W	Perform Whatif analysis on the selected statement.	Whatif (KTEPWHIF)
X	Display Exceptions	Exceptions (KTEPXCPT)
Y	Display Statement Execution Summary.	Statement Execution Summary (KTEPSTSU)
Z	Execute the statement.	Execution Results (SFXPSQLX) or Host Variables (KTEPHSVU) if there are host variables available.
2	Permit an ISPF edit against the SQL statement.	Blank

Commands

COMMAND	DESCRIPTION	TAKES YOU TO...
CAPS ON	(From Host Variables Panel) Translate entered input data to upper case.	
CAPS OFF	(From Host Variables Panel) Do not translate entered input data to upper case.	
DELETE	(From Host Variables Panel) Delete all saved host variable values and attributes.	
EXPLA	EXPLAIN all statements.	EXPLAIN (KTEPEXPL)
EXPLAR	Remote EXPLAIN all statements.	EXPLAIN (KTEPEXPL)
FIND	Find a specific character string on the display. Can be abbreviated as F. See "Format of the FIND command" later in this unit for information about the format of the FIND command.	
GEXPLA	EXPLAIN all statements and gather statistics.	EXPLAIN (KTEPEXPL)
GEXPLAR	Remote EXPLAIN all statements and gather statistics.	EXPLAIN (KTEPEXPL)
LEXPL	Display latest EXPLAIN	EXPLAIN (KTEPEXPL)
LOCATE	Locate a specific character string or a specific character string for a specific object type in one of the fields on the display. Can be abbreviated as L or LOC. See "Format of the LOCATE command" later in this unit for information about the format of the LOCATE command.	
NOVERS	Do not display version	EXPLAIN (KTEPEXPL)
OUT	Output statements	EXPLAIN (KTEPEXPL)
RESET	(From Statements Panel) Reset SHOW and SHOWE.	
RESET	(From Host Variables Panel) Reset host variable values and attributes.	
RESETALL	(From Host Variables Panel when in non-extracted mode) Reset host variable values and attributes.	
RFIND	Reexecute the last FIND command. Can be abbreviated as RF.	
RLOCATE	Reexecute the last LOCATE command. Can be abbreviated as RL or RLOC.	
SHOW	Expand all SQL statements.	
SHOWE	Expand all EXPLAINable SQL statements.	
VERS	Display version	
XCPT	Display exceptions.	Exceptions (KTEPXCPT)

Format of the FIND command

The FIND command can be abbreviated as **F**. The format of the FIND command is as follows:

FIND *string* [FIRST|LAST|NEXT|PREV] [ASIS]

This table provides information about the parameters of the FIND command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
<i>string</i> (required)	One of: <ul style="list-style-type: none"> • A quoted or unquoted string that is to be found; can take the form: <ul style="list-style-type: none"> dirt 'dirt road' "dirt road" "Mary 's road" • * (asterisk)—meaning find an occurrence of the last value entered for <i>string</i>
FIRST	Find the first occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
LAST	Find the last occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
PREV	Find the previous occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
NEXT	Find the next occurrence of the string (the default) on the display. Ignore the case of any characters in the string when performing the FIND.

Format of the FIND command (continued)

Parameter	Meaning
ASIS	Can be included with any of the above parameters and indicates that the string is to be found as entered; that is, the case of the characters in the string should match the case of the characters in the 'found' string.

Format of the LOCATE command

The LOCATE command can be abbreviated as **L** or **LOC**. The format of the LOCATE command is as follows:

LOCATE *field_name* operator *string* [ASIS]

This table provides information about the parameters of the LOCATE command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
<i>field_name</i> (required)	One of the following values: <ul style="list-style-type: none"> ● STMTNO—Locate the string in the Statement Number field ● ST—Locate the string in the STATUS field ● IS—Locate the string in the Isolation Level field ● CH—Locate the string in the Statement Changed Indicator field ● TEXT—Locate the string in the SQL Text field

Parameter	Meaning
operator (required)	<p>The following can be used with any field listed above under <i>field_name</i>:</p> <p>= (equals)</p> <p>These operators can only be used with the STMTNO field:</p> <p>> (greater than) < (less than) >= (greater than or equal to) <= (less than or equal to) <> (not equal to) ≠ (not equal to)</p>
<i>value</i> (required)	<p>A quoted or unquoted value that is to be found; can take the form:</p> <p>dirt 'dirt road' "dirt road" "Mary 's road"</p> <p>If the field in which a value is to be located is numeric, the format of <i>value</i> on the LOCATE command <i>must</i> match the format of the display field. Can take the form:</p> <p>999 9,999 or 9.999</p>
ASIS	<p>Can be included when <i>field_name</i>=TEXT and indicates that the string is to be found as entered; that is, the case of the characters in the string should match the case of the characters in the 'found' string.</p>

Table Columns

Overview

This unit describes the Table Columns panel.

Background about the Table Columns panel

The Table Columns panel (KTEPTCOL) allows you to view and update table column information. Two formats are available. Highlighted values on the panel may be updated. The values for HIGHKEY, HIGH2KEY, LOWKEY, and LOW2KEY can be entered in character or hexadecimal format if the column is of character or graphic type. Rows on panel KTEPTCOL are selectable. When a row is selected, the Column Distribution Statistics panel is displayed.

When you EXPLAIN an entity and save the results, the amount of statistics gathered are based on the value you have specified for the Amount of Statistics to Gather field on Housekeeping's EXPLAIN Defaults panel. If you want to see table column statistics, you must specify a value of 2 or greater for this field.

When you perform a what-if analysis on an entity, the statistics that were gathered at the time the entity was EXPLAINed are used in generating the Whatif and ancillary (Table Columns/Index Keys) displays. If you need to override the value specified in the Amount of Statistics to Gather field, issue a GSTATS command to reacquire statistics from the catalog and refresh the What-if display, and then proceed with the what-if analysis.

Formats

The panel KTEPTCOL is available in two formats:

Format	Displayed fields
Format 1	Partitioned data is not displayed.
Format 2	Partitioned data is displayed.

Access

Table Columns is invoked whenever a user selects:

- A table using **C** on the Whatif panel KTEPWHIF
- A table using **C** on the Estimator panel KTEPESTM
- A key column using **S** on the Index Keys panel KTEPCKEY.

Panels

The following illustration shows format 1 of the Table Columns panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 267
CMD ==>                               SCROLL ==> PAGE
                T A B L E   C O L U M N S

  Cmds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
                The fields marked with * can be updated.
-----
TABLE=SYSIBM.SYSTABLES

- COLUMN NAME = ALTEREDTS                NULLS = N   COLNO = 33
  COLTYPE = TIMESTMP                    UPDATES = N   KEYSEQ = 0
  FOREIGNKEY =                          DEFAULT = Y   LENGTH = 10
  *COLCARD = -1                          FLDPROC = N   SCALE = 0
- HIGH2KEY NULL = N *VALUE =
- LOW2KEY NULL = N *VALUE =
  STATS TIMESTAMP= 1999/05/19 01:45:40.150000

- COLUMN NAME = AUDITING                NULLS = N   COLNO = 27
  COLTYPE = CHAR                        UPDATES = N   KEYSEQ = 0
  *COLCARD = -1                          FLDPROC = N   SCALE = 0
- HIGH2KEY NULL = N *VALUE =
- LOW2KEY NULL = N *VALUE =
  STATS TIMESTAMP= 1999/05/19 01:45:40.150000
.
.
***** BOTTOM OF LIST *****

```

Panels (continued)

The following illustration shows format 2 of the Table Columns panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 618
CMD ==>                                SCROLL ==> CSR

                T A B L E   C O L U M N S

  Cnds: DO (Menu) GLOBAL (Menu)                Selects: ? (Menu)
                                         The fields marked with * can be updated.
-----
TABLE=TDDDB36A.KTETT11E

- COLUMN NAME = LOC_ID                NULLS = N    COLNO = 2
  COLTYPE = CHAR                UPDATES = N    KEYSEQ = 0
  *FOREIGNKEY = S                DEFAULT = Y    LENGTH = 6
  *COLCARD = 0                FLDPROC = N    SCALE = 0
- HIGH2KEY NULL = N *VALUE =
- LOW2KEY NULL = N *VALUE =
- STATS TIMESTAMP= 1999/08/23 08:56:24.130000

  PARTITION 1
    COLCARD = 0                STATS TIMESTAMP= 1999/08/19 09:17:25.657188
    - HIGHKEY NULL = N VALUE =
    - HIGH2KEY NULL = N VALUE =
    - LOWKEY NULL = N VALUE =
    - LOW2KEY NULL = N VALUE =

  PARTITION 2
    COLCARD = 0                STATS TIMESTAMP= 1999/08/19 09:17:25.657188
    - HIGHKEY NULL = N VALUE =
    - HIGH2KEY NULL = N VALUE =
    - LOWKEY NULL = N VALUE =
    - LOW2KEY NULL = N VALUE =
  .
  .
  .
  PARTITION 10
  .
  .
  .
- COLUMN NAME = ORDER_DE                NULLS = N    COLNO = 7
  COLTYPE = VARCHAR                UPDATES = Y    KEYSEQ = 0
  *FOREIGNKEY = S                DEFAULT = Y    LENGTH = 40
  *COLCARD = 0                FLDPROC = N    SCALE = 0
- HIGH2KEY NULL = N *VALUE =
- LOW2KEY NULL = N *VALUE =
- STATS TIMESTAMP= 1999/08/23 08:56:24.130000

  PARTITION 1
    COLCARD = 0                STATS TIMESTAMP= 1999/08/19 09:17:25.657188
    - HIGHKEY NULL = N VALUE =
    - HIGH2KEY NULL = N VALUE =
    - LOWKEY NULL = N VALUE =
    - LOW2KEY NULL = N VALUE =

  PARTITION 2
    COLCARD = 0                STATS TIMESTAMP= 1999/08/19 09:17:25.657188
    - HIGHKEY NULL = N VALUE =
    - HIGH2KEY NULL = N VALUE =
    - LOWKEY NULL = N VALUE =
    - LOW2KEY NULL = N VALUE =
  .
  .
  .

```

Panels (continued)

This is the continuation of format 2.

```

PARTITION 10
.
.
.
- COLUMN NAME = ORDER_INCREASE_PCT      NULLS = N   COLNO = 8
  COLTYPE     = FLOAT                    UPDATES = Y   KEYSEQ = 0
  *COLCARD    = 0                       FLDPROC = N   SCALE  = 0
- HIGH2KEY    NULL = N *VALUE =
- LOW2KEY     NULL = N *VALUE =
- STATS TIMESTAMP= 1999/08/23 08:56:24.130000

PARTITION 1
  COLCARD = 0          STATS TIMESTAMP= 1999/08/19 09:17:25.657188
- HIGHKEY  NULL = N  VALUE =
- HIGH2KEY NULL = N  VALUE =
- LOWKEY   NULL = N  VALUE =
- LOW2KEY  NULL = N  VALUE =

PARTITION 2
  COLCARD = 0          STATS TIMESTAMP= 1999/08/19 09:17:25.657188
- HIGHKEY  NULL = N  VALUE =
- HIGH2KEY NULL = N  VALUE =
- LOWKEY   NULL = N  VALUE =
- LOW2KEY  NULL = N  VALUE =

- COLUMN NAME = ORDER_QUANTITY          NULLS = N   COLNO = 6
  COLTYPE     = DECIMAL                  UPDATES = Y   KEYSEQ = 0
  *COLCARD    = 0                       FLDPROC = N   SCALE  = 2
- HIGH2KEY    NULL = N *VALUE =
- LOW2KEY     NULL = N *VALUE =
- STATS TIMESTAMP= 1999/08/23 08:56:24.130000

PARTITION 1
  COLCARD = 0          STATS TIMESTAMP= 1999/08/19 09:17:25.657188
- HIGHKEY  NULL = N  VALUE =
- HIGH2KEY NULL = N  VALUE =
- LOWKEY   NULL = N  VALUE =
- LOW2KEY  NULL = N  VALUE =
.
.
.

```

Fields

You can update the fields indicated by an asterisk (*).

FIELD	DESCRIPTION	NOTES
COLCARD (non-partition) *	Estimated number of distinct values in the column	Source: SYSIBM.SYSCOLUMNS.COLCARD
COLCARD (partition)	Column cardinality for the partition.	Source: SYSIBM.SYSCOLSTATS.COLCARD
COLNO	Numeric position of the column in the table	Source: SYSIBM.SYSCOLUMNS.COLNO
COLTYPE	Column type as specified in the definition of the column.	Source: SYSIBM.SYSCOLUMNS.COLTYPE
DEFAULT	Whether the column has a default value. Y The column has a default value. N The column does not have a default value.	Source: SYSIBM.SYSCOLUMNS.DEFAULT
FLDPROC	Indicates whether column has a field procedure.	Source: SYSIBM.SYSCOLUMNS.FLDPROC
FOREIGNKEY *	Applies to character columns only and indicates the subtype of the data. Data type may be bit data, single byte character string data, or mixed data.	This field can be updated if the column is character-type. Source: SYSIBM.SYSCOLUMNS.FOREIGNKEY
HIGHKEY NULL (partition) *	Null indicator for the highest value of the column within the partition. The value in the field may be: Y The column can contain nulls and the HIGHKEY value is null. N The column cannot contain nulls or the column can contain nulls but the HIGHKEY value is not null. If the value in the field is Y , the HIGHKEY VALUE is ignored.	This field is updateable if the column can contain nulls. Source: Derived from SYSIBM.SYSCOLSTATS.HIGHKEY
HIGHKEY VALUE (partition) *	Highest value of the column within the partition.	Source: SYSIBM.SYSCOLSTATS.HIGHKEY

FIELD	DESCRIPTION	NOTES
HIGH2KEY NULL (non-partition) *	<p>Null indicator for the second highest value of the column.</p> <p>The value in the field may be:</p> <p>Y The column can contain nulls and the HIGH2KEY value is null.</p> <p>N The column cannot contain nulls or the column can contain nulls but the HIGH2KEY value is not null.</p> <p>If the value in the field is Y, the HIGH2KEY VALUE is ignored.</p>	<p>This field is updateable if the column can contain nulls.</p> <p>Source: Derived from SYSIBM.SYSCOLUMNS.HIGH2KEY</p>
HIGH2KEY NULL (partition) *	<p>Null indicator for the second highest value of the column within the partition.</p> <p>The value in the field may be:</p> <p>Y The column can contain nulls and the HIGH2KEY value is null.</p> <p>N The column cannot contain nulls or the column can contain nulls but the HIGH2KEY value is not null.</p> <p>If the value in the field is Y, the HIGH2KEY VALUE is ignored.</p>	<p>This field is updateable if the column can contain nulls.</p> <p>Source: Derived from SYSIBM.SYSCOLSTATS.HIGH2KEY</p>
HIGH2KEY VALUE (non-partition) *	Second highest value of the column.	<p>This field is updateable.</p> <p>Source: SYSIBM.SYSCOLUMNS.HIGH2KEY</p>
HIGH2KEY VALUE (partition) *	Second highest value of the column within the partition.	Source: SYSIBM.SYSCOLSTATS.HIGH2KEY
KEYSEQ	Numeric position of the column in the table's primary key.	Source: SYSIBM.SYSCOLUMNS.KEYSEQ
LENGTH	The length attribute of the column or, for a decimal column, its precision.	Source: SYSIBM.SYSCOLUMNS.LENGTH

Table Columns

FIELD	DESCRIPTION	NOTES
LOWKEY NULL (partition) *	<p>Null indicator for the lowest value of the column within the partition.</p> <p>The value in the field may be:</p> <p>Y The column can contain nulls and the LOWKEY value is null.</p> <p>N The column cannot contain nulls or the column can contain nulls but the LOWKEY value is not null.</p> <p>If the value in the field is Y, the LOWKEY VALUE is ignored.</p>	<p>This field is updateable if the column can contain nulls.</p> <p>Source: Derived from SYSIBM.SYSCOLSTATS.LOWKEY</p>
LOWKEY VALUE (partition) *	<p>Second lowest value of the column within the partition.</p>	<p>Source: SYSIBM.SYSCOLSTATS.LOWKEY</p>
LOW2KEY NULL (non-partition) *	<p>Null indicator for the second lowest value of the column.</p> <p>The value in the field may be:</p> <p>Y The column can contain nulls and the LOW2KEY value is null.</p> <p>N The column cannot contain nulls or the column can contain nulls but the LOW2KEY value is not null.</p> <p>If the value in the field is Y, the LOW2KEY VALUE is ignored.</p>	<p>This field is updateable if the column can contain nulls.</p> <p>Source: Derived from SYSIBM.SYSCOLUMNS.LOW2KEY</p>
LOW2KEY NULL (partition) *	<p>Null indicator for the second lowest value of the column within the partition.</p> <p>The value in the field may be:</p> <p>Y The column can contain nulls and the LOW2KEY value is null.</p> <p>N The column cannot contain nulls or the column can contain nulls but the LOW2KEY value is not null.</p> <p>If the value in the field is Y, the LOW2KEY VALUE is ignored.</p>	<p>This field is updateable if the column can contain nulls.</p> <p>Source: Derived from SYSIBM.SYSCOLSTATS.LOW2KEY</p>
LOW2KEY VALUE (non-partition) *	<p>Second lowest value of the column.</p>	<p>This field is updateable.</p> <p>Source: SYSIBM.SYSCOLUMNS.LOW2KEY</p>
LOW2KEY VALUE (partition) *	<p>Second lowest value of the column within the partition.</p>	<p>Source: SYSIBM.SYSCOLSTATS.LOW2KEY</p>

FIELD	DESCRIPTION	NOTES
NULLS	Whether the column can contain a null value. Y The column can contain null values. N The column cannot contain null values.	Source: SYSIBM.SYSCOLUMNS.NULLS
PART	Partition number.	Source: SYSIBM.SYSCOLSTATS.PARTITION
SCALE	Scale of the column.	Source: SYSIBM.SYSCOLUMNS.SCALE
STATS TIMESTAMP	Statistics timestamp.	This field is set to the CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSCOLSTATS.STATSTIME (partition) Source: SYSIBM.SYSCOLUMNS.STATSTIME (nonpartition)
TABLE=	Name of the table to which the listed columns belong.	
UPDATES	Whether the column can be updated. Y The column can be updated N The column cannot be updated.	Source: SYSIBM.SYSCOLUMNS.UPDATES

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
C	Display Column Distribution Statistics for the table column in character format. The C select is only available for the HIGH*KEY and LOW*KEY fields and the column contains either character or graphic data.	
S	Display Column Distribution Statistics	Column Distribution Statistics (KTEPCDIS)
X	Display Column Distribution Statistics for the table column in hexadecimal format. The X select is only available for the HIGH*KEY and LOW*KEY fields and the column contains either character or graphic data.	

Commands

COMMAND	DESCRIPTION
CHANGE	Change all of the specified values to the new value. Can be abbreviated as C or CHA. See "Format of the CHANGE command" later in this unit for expanded information about the CHANGE command.
CHAR	Display all lines in character format. This command only applies to character or graphic data columns.
FIND	Find a specific character string on the display. Can be abbreviated as F. See "Format of the FIND command" later in this unit for expanded information about the FIND command.
HEX	Display all lines in hexadecimal format. This command only applies to character or graphic data columns.
LOCATE	Locate a specific value, or a specific value for a specific object type, in one of the fields on the display; or find data changed by the last command (for example, RESET, CHANGE, UNIFORM) you issued or data you have modified. Can be abbreviated as L or LOC. See "Format of the LOCATE command" later in this unit for expanded information about the LOCATE command.
NEWSET	Establish a new column statistics set.
NEWSETALL	Establish a new statistics set for column statistics and column distribution statistics.
NOSTAT	Set column statistics to RUNSTATS, not to run value. RUNSTATS can be 0, blank, or -1.
NOSTATALL	Set column statistics and column distribution statistics to RUNSTATS, not to run value. RUNSTATS can be 0, blank, or -1.
RESET	Reset column statistics values to the last statistics set. Note: A statistics set is established when you enter the Table Columns panel and when you explicitly enter the NEWSET* command.
RFIND	Reexecute the last FIND command. Can be abbreviated RF.
RLOCATE	Reexecute the last LOCATE command. Can be abbreviated RL or RLOC.
RESETALL	Reset column statistics and column distribution statistics to the last statistics set. Note: A statistics set is established when you enter the Table Columns panel and when you explicitly enter the NEWSET* command.
UNIFORM	Set partitioned statistics to uniform distribution. For example, if the value for CARD for tables is 90000 and there are 10 partitions, then set each table partition CARD field to 9000.

Format of the CHANGE command

The CHANGE command can be abbreviated as CHA or C. It operates only on the COLCARD field. The format for this command is:

CHANGE COLCARD operator *value* [%]

This table provides information about the parameters of the CHANGE command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
operator (required)	One of the following can be used in the operator field: = (equals) + (plus) - (minus)
value (required)	Value to set for all column COLCARDS. Partition COLCARDS are not changed.
%	The % (percent) sign can be used with the + (plus) and - (minus) operators to indicate that the value represents a percentage by which the changed field is to be incremented or decremented.

Format of the FIND command

The FIND command can be abbreviated as **F**. The format of the FIND command is as follows:

FIND *string* [FIRST|LAST|NEXT|PREV] [ASIS]

This table provides information about the parameters of the FIND command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
<i>string</i> (required)	One of: <ul style="list-style-type: none"> • A quoted or unquoted string that is to be found; can take the form: <ul style="list-style-type: none"> dirt 'dirt road' "dirt road" "Mary 's road" • * (asterisk)—meaning find an occurrence of the last value entered for <i>string</i>.
FIRST	Find the first occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
LAST	Find the last occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
PREV	Find the previous occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
NEXT	Find the next occurrence of the string (the default) on the display. Ignore the case of any characters in the string when performing the FIND.
ASIS	Can be included with any of the above parameters and indicates that the string is to be found as entered; that is, the case of the characters in the string should match the case of the characters in the 'found' string.

Format of the LOCATE command

The LOCATE command can be abbreviated as **L** or **LOC**. The format of the LOCATE command is as follows:

LOCATE [*field_type*] *field_name* operator *value* [ASIS]

or

LOCATE CHANGED

or

LOCATE MODIFIED

CHANGED can be abbreviated as CHA. MODIFIED can be abbreviated as MOD.

This table provides information about the parameters of the LOCATE command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
<i>field_type</i>	Can be CO or CP. <i>field type</i> is optional. If specified, it designates the type of field in which !DB/EXPLAIN is to find the designated value.
<i>field_name</i> (required)	Name of the field in which the specified value is to be located

Format of the LOCATE command (continued)

Parameter	Meaning
operator	<p>One of the following can be used in the operator field:</p> <ul style="list-style-type: none"> = (equals) > (greater than) < (less than) >= (greater than or equal to) <= (less than or equal to) <> (equal to) ≠ (not equal to)
<i>value</i> (required)	<p>A quoted or unquoted value that is to be found; can take the form:</p> <p>dirt 'dirt road' "dirt road" "Mary 's road"</p> <p>If the field in which a value is to be located is numeric, the format of <i>value</i> on the LOCATE command <i>must</i> match the format of the display field. Can take the form:</p> <p>999 9,999 or 9.999 1999/09/01 (will not match a value entered as 09/01/1999)</p>
ASIS	<p>Can be included with any of the above parameters and indicates that the string is to be found as entered; that is, the case of the characters in the string should match the case of the characters in the 'found' string.</p>
CHANGED	<p>Locates a value changed as the result of the last-issued command, for example, a CALC or UNIFORM command</p>
MODIFIED	<p>Locates a value changed by a user modification or a CHANGE command since the last statistics were gathered</p>

Valid field types for the LOCATE command

Refer to the table for the fields that can be affected by the LOCATE command. A more complete list showing alternate field names (where applicable) for the field names in the table can be found in the online help for the Table Columns panel.

Field Type	Field Name
CO	COLCARD COLNO COLTYPE DEFAULT FLDPROC FOREIGNKEY HIGH2KEY KEYSEQ LENGTH LOW2KEY NAME NULLS SCALE STATSTS
CP	COLCARD HIGHKEY HIGH2KEY LOWKEY LOW2KEY STATSTS

Tables

Overview

This unit describes the Tables panel.

Background about the Tables panel

The Tables panel (KTEPTABL) lists all DB2 tables, views, or aliases referenced by any INSERT, SELECT, UPDATE, DELETE, LOCK, or DECLARE CURSOR SQL statement in any DBRM or package.

Access

Tables can be accessed from the Primary Menu, or the Sessions, Plans, Packages, or DBRMs panels.

Panel

The Tables panel appears below. If you specified that alias processing was to take place during your extract, the table names appearing on this panel are the actual table names. If you specified that alias processing was not to occur during your extract, the table's alias, if the alias was coded in the SQL statement, rather than the actual table name, will appear on this panel.

```

----- DB/EXPLAIN DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE
                                T A B L E S
    Cnds: GLOBAL (Menu)
-----
    CREATOR/NAME
SEL  SELECTS  DELETES  INSERTS  UPDATES  LOCK XCLS  LOCK SHRS  TOTAL STMTS
-----
-   AA14C00.  HOLIDAYS          LOCATION=
      1          0          0          0          0          00          0
-   SYSIBM.  SYSINDEXPART      LOCATION=
      1          0          0          0          0          00          0
-   SYSIBM.  SYSTABLEPART     LOCATION=
      1          0          0          0          0          00          0
-   TSDB07.  VPHONE          LOCATION=
      1          0          0          0          0          00          0
* TOTALS *
      4          0          0          0          0          00          0

```

Fields and Associated Sorts and Filters

FIELD	DESCRIPTION	SORTS/ FILTERS
CREATOR	Authorization ID of the owner of the table, view, or alias. Source: SYSIBM.SYSTABLES.CREATOR	TCR
DELETES	Number of DELETES that reference this table. Source: Derived	T#DL
INSERTS	Number of INSERTs that reference this table. Source: Derived	T#IN
LOCATION	Location name of the object. Source: SYSIBM.SYSTABLES.LOCATION	TLOC
LOCK SHRS	Number of LOCKs shared on this table. Source: Derived	T#LS
LOCK XCLS	Number of LOCKs XCL on this table. Source: Derived	T#LX
NAME	Name of the table, view, or alias. Source: SYSIBM.SYSTABLES.NAME	TTBL
SELECTS	Number of SELECTs that reference this table. Source: Derived	T#SE
TOTAL STMT	Total number of statements that reference this table. Source: Derived	T#TL
UPDATES	Number of UPDATES that reference this table. Source: Derived	T#UP

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
D	Display all DBRMs referencing the selected table.	DBRMs (KTEPDDBRM)
K	Displays all packages referencing the selected table.	Packages (KTEPKACK)
P	Display all plans referencing the selected table.	Plans (KTEPPLAN)
S	List all statements that access the selected table.	Statements (KTEPSTMT)
X	Display exceptions for all statements that reference a given table.	Exceptions (KTEPXCPT)

Commands

COMMAND	DESCRIPTION	TAKES YOU TO...
XCPT	Display exceptions.	Exceptions (KTEPXCPT)

Verification

Overview

This unit describes the Verification panel.

Background about the Verification panel

If you enter the verification function from the Plans panel, !DB/EXPLAIN finds the DBRMs used by the Plan, determines the library in which each DBRM resides and whether or not that library is available on DASD, and checks for a timestamp mismatch.

If you enter the Verification function from a Packages or DBRMs panel, !DB/EXPLAIN determines the library in which each DBRM resides and whether or not that library is available on DASD, and checks for a timestamp mismatch.

Access

Verification can be accessed from the Plans, DBRMs, or Packages panel by selecting the Verify (V) option. After verification, you are returned to the panel from which you initiated the Verify function.

Panel

The following illustration shows the Verification panel.

```

----- DB/EXPLAIN(V235) DB2=D31A -----
CMD ==>                                SCROLL ==> PAGE
                V E R I F I C A T I O N
  Cnds: DO (Menu) GLOBAL (Menu)          Selects: ? (Menu)
-----
DBRM/    --- PRECOMPILE ---
PACKAGE  DATE           TIME   LIBRARY NAME
-----
AS07HDG  1999/02/03 11:55:59  TDDB.DE2.V230.TEST.DBRMLIB
                                STATUS: ON VOLUME OMON34

```

Fields

FIELD	DESCRIPTION
COLLID/PLAN NAME	Name of the package collection or plan Source: SYSIBM.SYSPACKAGE.COLLID Source: SYSIBM.SYSPLAN.NAME
DBRM/PACKAGE/ PLAN NAME	DBRM or package name Source: SYSIBM.SYSDBRM.NAME Source: SYSIBM.SYSPACKAGE.NAME
LIBRARY NAME	Name of the DBRM or package library. Source: SYSIBM.SYSDBRM.PDSNAME or SYSPACKAGE.PDSNAME
LOCATION	Location name of the package. Source: SYSIBM.SYSPACKAGE.LOCATION
(NAME heading) <ul style="list-style-type: none"> ● DBRM ● PACKAGE ● PLAN 	A variable field describing the type of data displayed in the column below it. Source: SYSIBM.SYSDBRM.NAME Source: SYSIBM.SYSPACKAGE.NAME Source: SYSIBM.SYSPLAN.NAME
PRECOMPILE DATE/TIME	Date and time the DBRM or package was precompiled. Source: SYSIBM.SYSDBRM.PRECOMPDATE PRECOMPTIME Source: SYSIBM.SYSPACKAGE.PCTIMESTAMP
STATUS	Library Status values: Migrated Not Cataloged On Volume XXXXXX. No Volumes in Catalog Not Verified Open Error (Not Auth) Source: Derived
VERSION	Version of the DBRM or package. Source: SYSIBM.SYSDBRM.VERSION Source: SYSIBM.SYSPACKAGE.VERSION

Commands

COMMAND	DESCRIPTION	TAKES YOU TO...
DISPLAY	Display all statements in a DBRM or package.	Statements (KTEPSTMT)

Whatif

Overview

This unit describes the Whatif panel.

Background about the Whatif panel

The Whatif panel (KTEPWHIF) provides statistical information about tables and indexes used by an SQL statement. Use the Whatif panel to temporarily or permanently modify the DB2 catalog and observe the effect on DB2 access path selection. Fields that can be updated are marked with an asterisk.

Procedure for update when using a shadow catalog

If you are using a shadow catalog, but you want the actual DB2 catalog updated either temporarily or permanently as a result of using the Whatif function, review this information.

If the value you have specified in the Catalog Prefix field on the !DB/Tools DB2-Specific Information panel is not the catalog prefix of the actual catalog tables (that is, it is the qualifier of the shadow catalog tables instead), then specify the following to have the actual DB2 catalog tables updated:

- On the Miscellaneous Defaults Housekeeping Panel, specify **Y** in the Use Real Catalog Prefix field.
 - On the !DB/Tools DB2-Specific Information panel, specify the qualifier of the actual catalog tables in the Real Catalog Prefix field.
-

Formats

This panel is available in two formats.

Format	Displayed fields
Format 1	Data related to access path.
Format 2	Data in SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSTABLEPART, SYSINDEXPART, SYSTABSTATS, and SYSINDEXSTATS

Access

This panel is accessed by selecting the Whatif (W) option from Plans, DBRMs, Packages, or Statements.

Panels

The following illustration shows format 1 of the Whatif panel—access path information.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 12
CMD ==>                               SCROLL ==> PAGE
                W H A T I F   A N A L Y S I S
  Cnds: DO (Menu) GLOBAL (Menu)          Selects: ? (Menu)
                The fields marked with * can be updated.
-----
TS= DSND06.SYSCOPY                      CREATOR= SYSIBM
*NACTIVE= 9

- TBL= SYSIBM.SYSCOPY                    LOCATION=
*NPAGES= 9                               *PCTROWCOMP = 0
*CARD = 300

----- USED INDEXES -----
- IX= SYSIBM.DSNUCH01
*NFULLKEY = -1                          *NLEVELS= -1          *CLUSTRATIO= 0
*FIRSTKEY= -1                          *NLEAF = -1

***** BOTTOM OF LIST *****

```

Panels (continued)

This is format 2 of the Whatif panel—all information.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 30
CMD ==>                                SCROLL ==> PAGE
                                W H A T I F   A N A L Y S I S
    Cnds: DO (Menu) GLOBAL (Menu)           Selects: ? (Menu)
                                The fields marked with * can be updated.
-----
TS= DSNDB06.SYSCOPY      PARTITIONS= 0  LOCKRULE = A
*NACTIVE= 9              OBID= 7          CLOSERULE= N  CREATOR = SYSIBM
NTABLES= 1              DBID= 6          IMPLICIT = N  CREATEBY= SYSIBM
SPACE = 0               PSID= 16         STATUS  = A   BPOOL= BP0
PGSIZE = 4              SEGSIZE= 0      ERASERULE= N  DSETPASS=
LOCKMAX= 0              STATSTS= 0000/00/00 00:00:00.000000

_ TBL= SYSIBM.SYSCOPY      LOCATION=
  RECLN= 1904             TBCREATR=                TYPE = T
  *CARD = 300            TBNAME =                STATUS=
  *NPAGES= 9             CREATEBY= SYSIBM        CKFLAG=
  PCTPAGES = 100         VALPROC =                AUDIT =
  KEYOBID = 0            EDPROC =                CHILD = 0
  OBID = 46              CKRID =                PARENT= 0
  COLCOUNT = 16         RBA1 = 000000000000    DATAC =
  KEYCOLUMNS= 0         RBA2 = 000000000000
  *PCTROWCOMP= 0         CREATETS= 1998/04/01 00:00:00.000000
  CLUSTERTYPE=           ALERTS = 1998/04/01 00:00:00.000000
  CHECKS= 0              STATSTS = 0000/00/00 00:00:00.000000

----- USED INDEXES -----
_ IX= SYSIBM.DSNUCH01    *NLEVELS= -1          *CLUSTRATIO= 0
  *FULLKEY = -1          *NLEAF = -1           CLUSTERED = N
  SPACE = 0              COLCOUNT = 3         CLUSTERING= Y
  PGSIZE = 4096          ERASERULE= N          BPOOL = BP0
  OBID = 91              CLOSERULE= N          DSETPASS =
  ISOBID = 114           UNIQUE = D             INDEXSPACE= DSNUCH01
  INDEXTYPE =           STATSTS = 0000/00/00 00:00:00.000000

***** BOTTOM OF LIST *****

```

Panels (continued)

You can control the amount of data retrieved from the DB2 catalog with the GSTATS (Gather Statistics) command. When this command is invoked, the Statistics Gathering panel appears. You can use this panel to modify the location of the server. The server defaults to “local.”

```

----- DB/EXPLAIN(V235)  DB2=DB2  ----- LINE 1 OF 20
Cmd ==>

          S T A T I S T I C S   G A T H E R I N G

Enter the server from which you wish to retrieve catalog statistics.
If no value is entered the current server will be set to local.

Server: TS
Amount of data to gather:

  1. - SYSTABLESPACE, SYSTABLES, SYSINDEXES
  2. - Data specified in 1 plus
      SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS
  3. - Data specified in 2 plus
      SYSKEYS
  4. - Data specified in 2 plus
      SYSTABLEPART, SYSTABSTATS, SYSINDEXPART, SYSINDEXSTATS
  5. - Data specified in 3 plus
      SYSTABLEPART, SYSTABSTATS, SYSINDEXPART, SYSINDEXSTATS

ENTER to process request   END to abort request

```

After the UPDT command is invoked and if you are running DB2 Version 2.3 or later, the Statistics Update panel appears and allows you to enter the location of the server. The default is “local.”

```

          S T A T I S T I C S   U P D A T E

Please enter the following information:

SERVER ==>

```

Panels (continued)

When the WIF command is invoked, the Statistics for Whatif panel displays to allow you to specify the location of the server and to make statistics permanent if you are using DB2 Version 2.3 or greater.

```

                                STATISTICS for WHATIF

You have requested Whatif Analysis.
Please specify Server:

                                SERVER ==>

MAKE STATISTICS PERMANENT? ==> n  ( Y YES  N NO )
```

Fields

You can update fields that are marked with an asterisk (*).

FIELD	ON FORMAT...	DESCRIPTION
ALERTS (TBL)	2	Time when the latest ALTER TABLE statement was applied. Source: SYSIBM.SYSTABLES.ALTEREDTS
AMOUNT OF DATA TO GATHER	KTEPSSSG	Type of data to retrieve from catalog: 1. SYSTABLESPACE, SYSTABLES, SYSINDEXES 2. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, and SYSCOLDISTSTATS 3. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS, and SYSKEYS 4. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS, SYSTABLEPART, SYSTABSTATS, SYSINDEXPART, and SYSINDEXSTATS 5. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS, SYSKEYS, SYSTABLEPART, SYSTABSTATS, SYSINDEXPART, and SYSINDEXSTATS
AUDIT (TBL)	2	Value of the audit option: A AUDIT All C AUDIT CHANGE blank AUDIT NONE, or the row describes a view or alias Source: SYSIBM.SYSTABLES.AUDITING
BPOOL (IX)	2	Name of the buffer pool used for the index. Source: SYSIBM.SYSINDEXES.BPOOL
BPOOL (TS)	2	Name of the buffer pool used for the table space. Source: SYSIBM.SYSTABLESPACE.BPOOL
CARD (IXP)	2	Number of rows referred to by the index or partition. Source: SYSIBM.SYSINDEXPART.CARD
CARD (TBL) *	1, 2	Number of rows in the table. You can update this field. Source: SYSIBM.SYSTABLES.CARD
CARD (TSTP)	2	Number of rows in table space or partition. Source: SYSIBM.SYSTABLEPART.CARD
CARDP (TSTP) *	2	Number of rows in table space partition. You can update this field Source: SYSIBM.SYSTABSTATS.CARD

FIELD	ON FORMAT...	DESCRIPTION
CHECKFLAG (TSTP)	2	<p>C The table space partition is in CHECK PENDING mode and there are rows that can violate referential constraints.</p> <p>blank The table contains no rows that violate referential constraints, or the table space is not partitioned.</p> <p>Source: SYSIBM.SYSTABLEPART.CHECKFLAG</p>
CHECKS (TBL)	2	<p>Number of check constraints defined on a table. The value in this field is 0 if there are no constraints, or if the row describes a view or alias.</p> <p>Source: SYSIBM.SYSTABLES.CHECKS</p>
CHILD (TBL)	2	<p>Number of relationships in which the table is a parent; 0 means the row describes a view or alias.</p> <p>Source: SYSIBM.SYSTABLES.CHILDREN</p>
CKFLAG (TBL)	2	<p>C There are rows in the table that can violate referential constraints.</p> <p>blank The table contains no rows that violate referential constraints, or the row describes a view or alias.</p> <p>Source: SYSIBM.SYSTABLES.CHECKFLAG</p>
CKRID (TBL)	2	<p>RID RID of the first row of the table that can violate referential constraints.</p> <p>blank Table is not in a check pending state.</p> <p>Source: SYSIBM.SYSTABLES.CHECKRID</p>
CKRID (TSTP)	2	<p>RID RID of the first row of the table that can violate referential constraints.</p> <p>blank Table or partition is not in a check pending state or the table space is not partitioned.</p> <p>Source: SYSIBM.SYSTABLEPART.CHECKRID</p>
CLOSERULE (IX)	2	<p>Whether the datasets are candidates for being closed when the limit on the number of open datasets is reached.</p> <p>Y Yes N No</p> <p>Source: SYSIBM.SYSINDEXES.CLOSERULE</p>
CLOSERULE (TS)	2	<p>Whether the datasets are candidates for being closed when the limit on the number of open datasets is reached.</p> <p>Y Yes N No</p> <p>Source: SYSIBM.SYSTABLESPACE.CLOSERULE</p>

FIELD	ON FORMAT...	DESCRIPTION
CLUSTERED (IX)	2	Whether the table is actually clustered by the index: Y Yes: More than 95% of the rows are in clustering order. N No: 95% or fewer of the rows are in clustering order; or statistics were not gathered. Source: SYSIBM.SYSINDEXES.CLUSTERED
CLUSTERING (IX)	2	Whether CLUSTER was specified when the index was created: Y Yes N No Source: SYSIBM.SYSINDEXES.CLUSTERING
CLUSTERTYPE (TBL)	2	Whether the table can be dropped (that is, whether the table is defined with RESTRICT ON DROP). blank The table can be dropped Y The table cannot be dropped and any table space or database containing this table also cannot be dropped. Source: SYSIBM.SYSTABLES.CLUSTERTYPE
CLUSTRATIO (IX) *	1, 2	Percentage of rows that are in clustering order. You can update this field. Source: SYSIBM.SYSINDEXES.CLUSTERRATIO
CLUSTRATIO (IXP) *	2	Percentage of rows in the index partition that are in clustering order. You can update this field. Source: SYSIBM.SYSINDEXESTATS.CLUSTERRATIO
COLCOUNT (TBL)	2	Number of columns in the table or view. Source: SYSIBM.SYSTABLES.COLCOUNT
COLCOUNT (IX)	2	Number of columns in the key. Source: SYSIBM.SYSINDEXES.COLCOUNT
COMPRESS (TSTP)	2	For a table space partition or nonpartitioned table space, indicates whether the COMPRESS attribute is YES. Values may be: Y Compression is defined. blank Compression is not defined. Source: SYSIBM.SYSTABLEPART.COMPRESS
CREATEBY (IX)	2	Primary authorization ID of the user who created the index. Source: SYSIBM.SYSINDEXES.CREATEDBY

FIELD	ON FORMAT...	DESCRIPTION
CREATEBY (TBL)	2	Primary authorization ID of the user who created the table, view, or alias. Source: SYSIBM.SYSTABLES.CREATEDBY
CREATEBY (TS)	2	Primary authorization ID of the user who created the table space. Source: SYSIBM.SYSTABLESPACE.CREATEDBY
CREATETS (TBL)	2	Time when the CREATE statement was executed for the table, view, or alias. Source: SYSIBM.SYSTABLES.CREATEDTS
CREATOR (TS)	1, 2	Authorization ID of the owner of the table space. Source: SYSIBM.SYSTABLESPACE.CREATOR
DATAAC (TBL)	2	Indicates the value of the DATA CAPTURE option for a table. Y Data capture is defined for the table. blank Data capture is not defined. Source: SYSIBM.SYSTABLES.DATA CAPTURE
DBID (TS)	2	Internal identifier of the database which contains the table space. Source: SYSIBM.SYSTABLESPACE.DBID
DSETPASS (IX)	2	The password for the datasets of the index. Source: SYSIBM.SYSINDEXES.DSETPASS
DSETPASS (TS)	2	The password for the datasets of the table space. Source: SYSIBM.SYSTABLESPACE.DSETPASS
EDPROC (TBL)	2	Name of the edit procedure. Source: SYSIBM.SYSTABLES.EDPROC
ERASERULE (IX)	2	Whether the datasets are to be erased when dropped. Not applicable to partitioned indexes. Y Yes N No Source: SYSIBM.SYSINDEXES.ERASERULE
ERASERULE (TS)	2	Whether the datasets are to be erased when dropped. Not applicable for partitioned table spaces. Y Erase N No Erase Source: SYSIBM.SYSTABLESPACE.ERASERULE
FARINDREF (TSTP)	2	Number of rows that have been relocated far from their original page. Source: SYSIBM.SYSTABLEPART.FARINDREF

FIELD	ON FORMAT...	DESCRIPTION
FAROFFPOS (IXP)	2	Number of referred to rows far from optimal position as the result of an insert into a full page. Source: SYSIBM.SYSINDEXPART.FAROFFPOS
FIRSTKEY (IX) *	1, 2	Number of distinct values of the first key column. You can update this field. Source: SYSIBM.SYSINDEXES.FIRSTKEYCARD
FIRSTKEY (IXP) *	2	Number of distinct values of the first key column in the index partition. You can update this field. Source: SYSIBM.SYSINDEXSTATS.FIRSTKEYCARD
FREEPAGE (IXP)	2	Number of pages loaded before a page is left as free space. Source: SYSIBM.SYSINDEXPART.FREEPAGE
FREEPAGE (TSTP)	2	Number of pages loaded before a page is left as free space. Source: SYSIBM.SYSTABLEPART.FREEPAGE
FULLKEY (IX) *	1, 2	Number of distinct values of the key column. You can update this field. Source: SYSIBM.SYSINDEXES.FULLKEYCARD
FULLKEY (IXP) *	2	Number of distinct values of the key column in the index partition. You can update this field. Source: SYSIBM.SYSINDEXSTATS.FULLKEYCARD
GBPCACHE (IXP)	2	The group buffer pool cache option for the index or index space. A Both changed and unchanged pages are cached in the group buffer pool blank Only changed pages are cached in the group buffer pool, or the DB2 subsystem is not at least Version 4. Source: SYSIBM.SYSINDEXPART.GBPCACHE
GBPCACHE (TSTP)	2	The group buffer pool cache option for the table or table space. A Both changed and unchanged pages are cached in the group buffer pool blank Only changed pages are cached in the group buffer pool, or the DB2 subsystem is not at least Version 4. Source: SYSIBM.SYSTABLEPART.GBPCACHE
IMPLICIT (TS)	2	Whether the table space was created implicitly. Y Yes N No Source: SYSIBM.SYSTABLESPACE.IMPLICIT

FIELD	ON FORMAT...	DESCRIPTION
INDEXSPACE (IX)	2	Name of the index space. Source: SYSIBM.SYSINDEXES.INDEXSPACE
INDEXTYPE (IX)	2	The type of the index blank Index is type 1 2 Index is type 2 Source: SYSIBM.SYSINDEXES.INDEXTYPE
ISOBID (IX)	2	Internal identifier of the index page set descriptor. Source: SYSIBM.SYSINDEXES.ISOBID
IX	1, 2	Index name. Source: SYSIBM.SYSINDEXES.CREATOR SYSIBM.SYSINDEXES.NAME
IXCREATOR (TSTP)	2	Authorization ID of the owner of the partitioned index. Source: SYSIBM.SYSTABLEPART.IXCREATOR
IXNAME (TSTP)	2	Name of the partitioned index. Source: SYSIBM.SYSTABLEPART.IXNAME
IXP	2	Index name. Source: SYSIBM.SYSINDEXPART.CREATOR Source: SYSIBM.SYSINDEXPART.IXNAME
KEYCOLUMNS (TBL)	2	Number of columns in the table's primary key. Source: SYSIBM.SYSTABLES.KEYCOLUMNS
KEYCNT (IXP)	2	Total number of rows in the partition. Source: SYSIBM.SYSINDEXSTATS.KEYCOUNT
KEYOBID (TBL)	2	Internal DB2 identifier of the index that enforces uniqueness of the table's primary key. Source: SYSIBM.SYSTABLES.KEYOBID
LEAFDIST (IXP)	2	100 times the average number of pages between successive leaf pages of the index. Source: SYSIBM.SYSINDEXPART.LEAFDIST
LOCATION (TBL)	1, 2	Location name of the table for an alias defined on a remote object or blank for local. Source: SYSIBM.SYSTABLES.LOCATION
LOCKMAX (TS)	2	Maximum number of locks per user to acquire for the table or table space before escalating to the next locking level. Source: SYSIBM.SYSTABLESPACE.LOCKMAX

FIELD	ON FORMAT...	DESCRIPTION
LOCKRULE (TS)	2	Lock size of the table space. A Any P Page S Table space T Table Source: SYSIBM.SYSTABLESPACE.LOCKRULE
MAKE STATISTICS PERMANENT?	KTE3SSWH	Indicator to permanently update the catalog. Y Yes N No
NACTIVE (TS) *	1, 2	Number of active pages in the table space. You can update this field. Source: SYSIBM.SYSTABLESPACE.NACTIVE
NACTIVE (TSTP) *	2	Number of active pages in the table space partition. You can update this field. Source: SYSIBM.SYSTABSTATS.NACTIVE
NEARINDREF (TS)	2	Number of rows that have been relocated near their original page. Source: SYSIBM.SYSTABLEPART.NEARINDREF
NEAROFFPOS (IXP)	2	Number of referred to rows near, but not at optimal position, because of an insert into a full page. Source: SYSIBM.SYSINDEXPART.NEAROFFPOS
NLEAF (IX) *	1, 2	Number of active leaf pages in the index. You can update this field. Source: SYSIBM.SYSINDEXES.NLEAF
NLEAF (IXP) *	2	Number of active leaf pages in the index partition. You can update this field. Source: SYSIBM.SYSINDEXSTATS.NLEAF
NLEVELS (IX) *	1, 2	Number of levels in the partition index tree. Source: SYSIBM.SYSINDEXES.NLEVELS
NLEVELS (IXP) *	2	Number of levels in the partition index tree. You can update this field. Source: SYSIBM.SYSINDEXSTATS.NLEVELS
NPAGES (TBL) *	1, 2	Total number of pages on which rows of the table appear. You can update this field. Source: SYSIBM.SYSTABLES.NPAGES
NPAGES (TSTP) *	2	Total number of pages in the table space partition on which rows of the table appear. You can update this field. Source: SYSIBM.SYSTABSTATS.NPAGES
NTABLES (TS)	2	Number of tables defined in the table space. Source: SYSIBM.SYSTABLESPACE.NTABLES

FIELD	ON FORMAT...	DESCRIPTION
OBID (IX)	2	Internal identifier of the index fan set descriptor. Source: SYSIBM.SYSINDEXES.OBID
OBID (TS)	2	Internal identifier of the table space file descriptor. Source: SYSIBM.SYSTABLESPACE.OBID
OBID (TBL)	2	Internal identifier of the table. Source: SYSIBM.SYSTABLES.OBID
PAGESAVE (TSTP)	2	The percentage of pages saved in a table space or partition as a result of using data compression. Source: SYSIBM.SYSTABLEPART.OBID
PARNT (TBL)	2	Number of relationships in which the table is a dependent. 0 means the row describes a view or alias. Source: SYSIBM.SYSTABLES.PARENTS
PARTITION (IXP)	2	Partition number; 0 if the index is not partitioned. Source: SYSIBM.SYSINDEXPART.PARTITION
PARTITION (TSTP)	2	Partition number; 0 if the table space is not partitioned. Source: SYSIBM.SYSTABLEPART.PARTITION
PARTITIONS (TS)	2	Number of partitions of the table space; 0 if the table space is not partitioned. Source: SYSIBM.SYSTABLESPACE.PARTITIONS
PCTFREE (IXP)	2	Percentage of each subpage or nonleaf page that is left as free space. Source: SYSIBM.SYSINDEXPART.PCTFREE
PCTFREE (TSTP)	2	Percentage of each page left as free space. Source: SYSIBM.SYSTABLEPART.PCTFREE
PCTPAGES (TBL)	2	Percentage of active table space pages that contain rows of the table. Source: SYSIBM.SYSTABLES.PCTPAGES
PCTPAGES (TSTP)	2	Percentage of active table space pages that contain rows of the table. Source: SYSIBM.SYSTABSTATS.PCTPAGES
PCTROWCOMP (TBL) *	2	Percentage of rows compressed within the total number of active rows in the table. You can update this field. Source: SYSIBM.SYSTABLES.PCTROWCOMP
PCTROWCOMP (TSTP) *	2	Percentage of rows compressed within the total number of active rows in the partition. You can update this field. Source: SYSIBM.SYSTABSTATS.PCTROWCOMP
PERCACT (TSTP)	2	Percentage of space occupied by rows of data from active tables. Source: SYSIBM.SYSTABLEPART.PERCACTIVE

FIELD	ON FORMAT...	DESCRIPTION
PERCDROP (TSTP)	2	Percentage of space occupied by rows of dropped tables; 0 for segmented table spaces. Source: SYSIBM.SYSTABLEPART.PERCDROP
PGSIZE (IX)	2	Size of subpages in the index. Source: SYSIBM.SYSINDEXES.PGSIZE
PGSIZE (TS)	2	Size of pages in the table spaces in kilobytes. Source: SYSIBM.SYSTABLESPACE.PGSIZE
PQTY (IXP)	2	Primary space allocation in units 4K storage blocks; 0 if storage group is not used. Source: SYSIBM.SYSINDEXPART.PQTY
PQTY (TSTP)	2	Primary space allocation in units of 4K storage blocks; 0 if a storage group is not used. Source: SYSIBM.SYSTABLEPART.PQTY
PSID (TS)	2	Internal identifier of the table space page set descriptor. Source: SYSIBM.SYSTABLESPACE.PSID
RBA1 (TBL)	2	The log RBA when the table was created. Source: SYSIBM.SYSTABLES.RBA1
RBA2 (TBL)	2	The log RBA when the table was altered. If RBA1=RBA2, the table has not been altered. Source: SYSIBM.SYSTABLES.RBA2
RECLEN (TBL)	1, 2	The maximum length of any record in the table. Source: SYSIBM.SYSTABLES.RECLENGTH
SEGSIZE (TS)	2	Number of pages in each segment of a segmented table space. Source: SYSIBM.SYSTABLESPACE.SEGSIZE
SERVER	KTEPSSSG, KTE3SSSU, KTE3SSWH	Location name. Only installations running DB2 Version 2.3 or greater will be able to designate a server.
SPACE (IX)	2	Number of kilobytes of DASD storage allocated to the index, as determined by the last execution of STOSPACE utility. Source: SYSIBM.SYSINDEXES.SPACE
SPACE (IXP)	2	Number of kilobytes of DASD storage allocated to the index partition as determined by the last execution of STOSPACE utility. Source: SYSIBM.SYSINDEXPART.SPACE
SPACE (TS)	2	Number of kilobytes of DASD storage allocated to the table space as determined by the last execution of the STOSPACE utility. Source: SYSIBM.SYSTABLESPACE.SPACE

FIELD	ON FORMAT...	DESCRIPTION
SPACE (TSTP)	2	Number of kilobytes of DASD storage allocated to the table space partition as determined by the last execution of STOSPACE utility. Source: SYSIBM.SYSTABLEPART.SPACE
SQTY (IXP)	2	Secondary space allocation in units of 4K storage blocks; 0 if a storage group is not used. Source: SYSIBM.SYSINDEXPART.SQTY
SQTY (TSTP)	2	Secondary space allocation in units of 4K storage blocks; 0 if a storage group is not used. Source: SYSIBM.SYSTABLEPART.SQTY
STATSTS (IX)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSINDEXES.STATSTIME
STATSTS (IXP)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSINDEXPART.STATSTIME
STATSTS (TBL)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSTABLES.STATSTIME
STATSTS (TS)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSTABLESPACE.STATSTIME
STATSTS (TSTP)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSTABLEPART.STATSTIME
STATSTSP (IXP)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSINDEXSTATS.STATSTIME
STATSTSP (TSTP)	2	This field will be set to CURRENT TIMESTAMP for functions that update the catalog or output statistics. Source: SYSIBM.SYSTABSTATS.STATSTIME
STATUS (TBL)	2	Status of the table definition: I The table's definition is incomplete because it lacks a primary index. X Table has a primary index. blank Table has no primary key, or is a catalog table, or the row describes a view or alias. Source: SYSIBM.SYSTABLES.STATUS

FIELD	ON FORMAT...	DESCRIPTION
STATUS (TS)	2	Availability status of the table space: A Available C Incomplete because no partitioned index has been created P Check Pending S Check Pending with the scope less than the entire table space T Incomplete because no table has been created Source: SYSIBM.SYSTABLESPACE.STATUS
STORNAME (IXP)	2	Name of storage group or ICF catalog used for space allocation. Source: SYSIBM.SYSINDEXPART.STORNAME
STORNAME (TSTP)	2	Name of storage group used for allocation. Blank if STORTYPE = E. Source: SYSIBM.SYSTABLEPART.STORNAME
STORTYPE (IXP)	2	Type of storage allocation: E Explicit and STORNAME names an ICF catalog I Implicit and STORNAME names a storage group Source: SYSIBM.SYSINDEXPART.STORTYPE
STORTYPE (TSTP)	2	Type of storage allocation: E Explicit (storage group is not used) I Implicit (storage group used) Source: SYSIBM.SYSTABLEPART.STORTYPE
TBCREATR (TBL)	2	For an alias, the authorization ID of the owner of the referred table or view; blank otherwise. Source: SYSIBM.SYSTABLES.TBCREATOR
TBL	1, 2	Name of table. Source: SYSIBM.SYSTABLES.CREATOR SYSIBM.SYSTABLES.NAME
TBNAME (TBL)	2	For an alias, the name of the referred table or view; blank otherwise Source: SYSIBM.SYSTABLES.TBNAME
TS	1, 2	Name of table space. Source: SYSIBM.SYSTABLESPACE.DBNAME SYSIBM.SYSTABLESPACE.NAME
TSTP	2	Partitioned table space name. Source: SYSIBM.SYSTABLEPART.DBNAME Source: SYSIBM.SYSTABLEPART.TSNAME

FIELD	ON FORMAT...	DESCRIPTION
TYPE (TBL)	2	Type of object. A Alias T Table V View Source: SYSIBM.SYSTABLES.TYPE
UNIQUE (IX)	2	Whether the index is unique: D No (Duplicates are allowed) U Yes P Primary key (Unique) Source: SYSIBM.SYSINDEXES.UNIQUERULE
VALPROC (TBL)	2	Name of the validation procedure; blank if the row describes a view or alias or a table without a validation procedure. Source: SYSIBM.SYSTABLES.VALPROC
VCATNAME (IXP)	2	Name of ICF catalog used for space allocation. Source: SYSIBM.SYSINDEXPART.VCATNAME
VCATNAME (TSTP)	3	Name of ICF catalog used for space allocation. Source: SYSIBM.SYSTABLEPART.VCATNAME

Selects

SELECT	DESCRIPTION	TAKES YOU TO...
C	Display/Update Table columns.	Table Columns (KTEPTCOL)
D	Drop the selected index. Available for IX= rows.	
K	Display Index Keys.	Index Keys (KTEPCKEY)
N	Creates a new index having the DEFER option, unless you specifically indicate that you do not want it created with the DEFER option. When you exit from the Whatif panel, you will be given an opportunity to drop any indexes created using the N select. Available for TBL= rows and assists you in testing the effect of adding new indexes to tables.	

Commands

COMMAND	DESCRIPTION	TAKES YOU TO...
CHANGE	Change all of the specified values to the new value. Can be abbreviated as C or CHA. See "Format of the Change command" following this table for expanded information about the CHANGE command.	
ESTIM	Access the Estimator function. The Estimator function allows you to modify catalog fields and see the effect the modifications have on related catalog fields.	Estimator (KTEPESTM)
FIND	Find a specific character string on the display. Can be abbreviated as F. See "Format of the FIND command" following this table for expanded information about the FIND command.	
GSTATS	Gather statistics from the Catalog and refresh the Whatif display. Note: If you wish to use Whatif to display columns, you must also specify a value of at least 2 in the Amount of Statistics to Gather field. If you wish to use Whatif to display keys, you must also specify a value of at least 3 in the Amount of Statistics to Gather field.	Statistics Gathering (KTEPSSSG)

Commands (continued)

COMMAND	DESCRIPTION	TAKES YOU TO...
LOCATE	Locate a specific value, or a specific value for a specific object type, in one of the fields on the display; or find data changed by the last command (for example, CALC or UNIFORM) you issued or data you have modified. Can be abbreviated as L or LOC. See “Format of the LOCATE command” following this table for expanded information about the LOCATE command.	
NDXS	Display all used and unused indexes.	
NEWSET	Establish a new statistics set. NEWSET does not affect column or column distribution statistics.	
NEWSETALL	Establish a new statistics set, including column and column distribution statistics.	
NONDXS	Reset used indexes.	
NOSTAT	Set statistics to RUNSTATS, not to run value. RUNSTATS can be 0, blank, or -1. NOSTAT does not affect column or column distribution statistics.	
NOSTATALL	Set statistics, including column and column distribution statistics, to RUNSTATS, not to run value. RUNSTATS can be 0, blank, or -1.	
OUT	Create a REXX EXEC to update catalog statistics, or create SQL statements to update catalog statistics, depending upon the value specified for “OUT statistics format” on housekeeping panel Miscellaneous Defaults (KTEPHOMI).	Output Options (KTEPOUTP)
RESET	Reset statistics values to the last statistics set. RESET does not affect column or column distribution statistics. Note: A statistics set is established when you enter the Whatif panel and when you explicitly enter the NEWSET* command.	
RESETALL	Reset statistics, including column and column distribution statistics, to the last statistics set. Note: A statistics set is established when you enter the Whatif panel and when you explicitly enter the NEWSET* command.	

Commands (continued)

COMMAND	DESCRIPTION	TAKES YOU TO...
RFIND	Reexecute the last FIND command. Can be abbreviated as RF.	
RLOCATE	Reexecute the last LOCATE command. Can be abbreviated as RL or RLOC.	
UNIFORM	Set partitioned statistics to uniform distribution. For example, if the value for CARD for tables is 90000 and there are 10 partitions, then set each table partition CARD field to 9000.	
UPDT	Update the local catalog with new statistics.	
UPDTL	Update the local catalog with new statistics.	
UPDTR	Update the remote catalog with new statistics.	
WIF	Temporarily update the local catalog and EXPLAIN with new statistics with the option to make changes permanent.	EXPLAIN (KTEPEXPL)
WIFL	Temporarily update the local catalog and EXPLAIN with new statistics.	EXPLAIN (KTEPEXPL)
WIFR	Temporarily update the remote catalog and EXPLAIN with new statistics.	EXPLAIN (KTEPEXPL)
WIFU	Permanently update the local catalog and EXPLAIN with new statistics.	EXPLAIN (KTEPEXPL)
WIFUL	Permanently update the local catalog and EXPLAIN with new statistics.	EXPLAIN (KTEPEXPL)
WIFUR	Permanently update the remote catalog and EXPLAIN with new statistics.	EXPLAIN (KTEPEXPL)

Format of the Change command

The format for this command is

CHANGE [*field_type*] *field_name* operator *value* [%]

This table provides information about the parameters of the CHANGE command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
<i>field_type</i>	Can be TS, TSTP, TBL, IX, or IXP. <i>field_type</i> is optional. If it is omitted, all fields having the specified field name are changed. If it is included, only those fields of the type specified and having the specified field name are changed.
<i>field_name</i> (required)	Name of the field to be changed
operator (required)	One of the following can be used in the operator field: = (equals) + (plus) - (minus)
value (required)	Value to which the specified fields are set
%	The % (percent) sign can be used with the + (plus) and - (minus) operators to indicate that the value represents a percentage by which the changed field is to be incremented or decremented.

Valid field types for the CHANGE command

Refer to the table for the fields than can be affected by the Change command. A more complete list showing alternate field names (where applicable) for the field names in this table can be found in the online help for this panel.

Field Type	Field Name
TS	NACTIVE
TSTP	CARD NACTIVE NPAGES PCTPAGES PCTROWCOMP PCTFREE FREEPAGE
TBL	RECLEN CARD NPAGES PCTPAGES PCTROWCOMP
IX	FULLKEY FIRSTKEY KEYSIZE INDEXTYPE NLEVELS NLEAF UNIQUE CLUSTER ROWS
IXP	FULLKEY FIRSTKEY KEYCNT NLEVELS NLEAF CLUSTER FREEPAGE PCTFREE

Format of the FIND command

The FIND command can be abbreviated as **F**. The format of the FIND command is as follows:

FIND *string* [FIRST|LAST|NEXT|PREV] [ASIS]

This table provides information about the parameters of the FIND command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
<i>string</i> (required)	One of: <ul style="list-style-type: none"> • A quoted or unquoted string that is to be found; can take the form: <ul style="list-style-type: none"> dirt 'dirt road' "dirt road" "Mary 's road" • * (asterisk)—meaning find an occurrence of the last value entered for <i>string</i>.
FIRST	Find the first occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
LAST	Find the last occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
PREV	Find the previous occurrence of the string on the display. Ignore the case of any characters in the string when performing the FIND.
NEXT	Find the next occurrence of the string (the default) on the display. Ignore the case of any characters in the string when performing the FIND.

Format of the FIND command (continued)

Parameter	Meaning
ASIS	Can be included with any of the above parameters and indicates that the string IS to be found as entered; that is, the case of the characters in the string should match the case of the characters in the 'found' string.

Format of the LOCATE command

The LOCATE command can be abbreviated as **L** or **LOC**. The format of the LOCATE command is as follows:

LOCATE [*field_type*] *field_name* operator *value* [ASIS]

or

LOCATE CHANGED

or

LOCATE MODIFIED

CHANGED can be abbreviated as CHA. MODIFIED can be abbreviated as MOD.

This table provides information about the parameters of the LOCATE command. All parameters are optional unless specifically declared as required.

Parameter	Meaning
<i>field_type</i>	Valid field types for the LOCATE command are TS, TSTP, TBL, IX, and IXP. This optional parameter specifies the type of field in which !DB/EXPLAIN is to find the designated value.
<i>field_name</i> (required)	Name of the field in which the specified value is to be located

Format of the LOCATE command (continued)

Parameter	Meaning
operator (required)	One of the following can be used in the operator field: <ul style="list-style-type: none"> = (equals) > (greater than) < (less than) >= (greater than or equal to) <= (less than or equal to) <> (not equal to) ≠ (not equal to)
<i>value</i> (required)	A quoted or unquoted value that is to be found; can take the form: <ul style="list-style-type: none"> dirt 'dirt road' "dirt road" "Mary 's road" If the field in which a value is to be located is numeric, the format of <i>value</i> on the LOCATE command <i>must</i> match the format of the display field. Can take the form: <ul style="list-style-type: none"> 999 9,999 or 9.999 1999/09/01 (will not match a value entered as 09/01/1999)
ASIS	Can be included with any of the above parameters and indicates that a character string IS to be found a/s entered; that is, the case of the characters in the string should match the case of the characters in the 'found' string. (ASIS is only valid for character data.)
CHANGED	Locates a value changed as the result of the last-issued command, for example, a CALC or UNIFORM command.
MODIFIED	Locates a value changed by a user modification or a CHANGE command since the last statistics were gathered

Valid field types for the LOCATE command

Refer to the table for the fields than can be affected by the LOCATE command. A more complete list showing alternate field names (where applicable) for the field names in this table can be found in the online help for this panel.

Field Type	Field Name
TS	BPOOL CLOSERULE CREATEBY CREATOR DBID DBNAME DSETPASS ERASERULE IMPLICIT LOCKMAX LOCKRULE NACTIVE NAME NTABLES OBID PARTITIONS PGSIZE PSID SEGSIZE SPACE STATSTS STATUS

Valid field types for the LOCATE command (continued)

Field Type	Field Name
TSTP	CARD CARDP CHECKFLAG CKRID COMPRESS DBNAME FARINDREF FREEPAGE GBPCACHE IXCREATOR IXNAME NACTIVE NEARINDREF NPAGES PAGESAVE PARTITION PCTFREE PCTPAGES PCTROWCOMP PERCACT PERCDROP PQTY SPACE SQTY STATSTS STATSTSP STORNAME STORTYPE TSNAME VCATNAME
TBL	ALERTS AUDIT CARD CHECKS CHILD CKFLAG CKRID CLUSTERTYPE COLCOUNT CREATEBY CREATEBY CREATOR DATA EDPROC KEYCOLUMNS KEYOBID LOCATION NAME NPAGES OBID PARENT PCTPAGES PCTROWCOMP RBA1 RBA2 RECLN STATSTS STATUS TBCREATR TBNAME TYPE VALPROC

Valid field types for the LOCATE command (continued)

Field Type	Field Name
IX	BPOOL CLOSERULE CLUSTER CLUSTERED CLUSTERING COLCOUNT CREATEBY CREATOR DSETPASS ERASERULE FIRSTKEY FULLKEY INDEXSPACE INDEXTYPE ISOBID KEYSIZE NAME NLEAF NLEVELS OBID PGSIZE ROWS SPACE STATSTS UNIQUE
IXP	CARD CLUSTER FAROFFPOS FIRSTKEY FREEPAGE FULLKEY GBPCACHE IXCREATOR IXNAME KEYCNT LEAFDIST NEAROFFPOS NLEAF NLEVELS PARTITION PCTFREE PQTY SPACE SQTY STATSTS STATSTSP STORNAME STORTYPE VCATNAME

Housekeeping and Customization Panels

Chapter 2. Housekeeping and Customization

Introduction

!DB/EXPLAIN simplifies housekeeping and customization tasks. All housekeeping options are accessed from the Housekeeping panel. There are no commands, selects, or filters on the !DB/EXPLAIN housekeeping and customization panels. However, you can change data field values by typing over existing ones.

Chapter Contents

BIND Compare Options	277
Build Tuning Parameters	281
Compare Options	284
Data Formats	286
!DB/EXPLAIN Configuration Information	288
!DB/Tools DB2 Configuration Information	290
!DB/Tools Global Configuration Information	293
!DB/Tools Global Information—DB2 Subsystem Name Table	295
!DB/Tools Profile Dataset List	297
Exception Options	299
EXPLAIN Defaults	303
EXPLAIN Display Tuning Parameters	307
EXPLAIN/SQL Defaults	310
Extract Processing Defaults	312
Housekeeping	315
Library Search Order	319
Miscellaneous Defaults	322
Output Options Defaults	326
Package BIND Overrides	328
Panel Filters	335
Panel Formats	337
Panel Sorts	339
Plan BIND Overrides	341
Recommendations Menu	347
Recommendations Panel 0	348
Recommendations Panel 1	350
Recommendations Panel 2	352
Recommendations Panel 3	354
Recommendations Panel 4	356
Recommendations Panel 5	358
Recommendations Panel 6	360
Recommendations Panel 7	362
Recommendations Panel 8	364

Recommendations Panel 9	366
Selection Masking	369
Set Defaults	373
SQL Defaults	377
SQL Formats for KTEXPL	379
Tuning Parameters	382

BIND Compare Options

Overview

This unit describes the BIND Compare Options panel.

Background about the BIND Compare Options panel

Fields on the BIND Compare Options panel were previously on the Compare Options panel (KTEPHOCO). The BIND Compare Options panel (KTEPHOBC) allows you to override BIND Compare Options in the profile dataset during the current !DB/EXPLAIN session. You can specify that changes are permanent or are for the current session only.

Access

You can access the BIND Compare Options panel from the Housekeeping panel.

Panel

The following illustration shows the BIND Compare Options panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
          B I N D   C O M P A R E   O P T I O N S

PERMANENT? ==>   ( Y Yes  N No )
Compare statement numbers?          ==> Y (Y Yes  N No)
Compare DBRM names?                  ==>   (Y Yes  N No)
Display BIND Compare Confirmation Panel? ==>   (Y Yes  N No)
BIND Option for Compare               ==>   (A Add  R Replace)
Suffix to use for Plan BIND Compare   ==>
Collection to use for Package BIND Compare ==>
Bind Compare all Packages included in Plan?==>   (Y Yes  N No)
Execute BIND Compare Generate Option? ==>   (N No Y Yes C Cmd S Sel)
Generate BIND/REBIND for different paths? ==>   (N No B BINDS R REBINDS L List)
Generate BIND/REBIND for same paths?   ==>   (N No B BINDS R REBINDS L List)
USER PDS member to save differences in ==>
USER PDS member to save sames in      ==>
USER PDS member to save errors in     ==>
Modify onto USER PDS members?        ==>   (Y Yes  N No)
Execute BIND/REBIND for different paths? ==>   (Y Yes  N No)
Execute BIND/REBIND for same paths?   ==>   (Y Yes  N No)
Generate Plan or Package Binds for DBRMs? ==>   (P Plan K Package)

ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
BIND OPTIONS FOR COMPARE	<p>Indicates whether to compare Plan/Package with BIND ADD or BIND REPLACE</p> <p>A Add R Replace</p>
BIND COMPARE ALL PACKAGES INCLUDED IN PLAN?	<p>Indicates whether to BIND Compare each Package that is bound into a Plan when a BIND Compare Command or Select is issued.</p> <p>Y Yes N No</p>
COLLECTION TO USE FOR PACKAGE BIND COMPARE	<p>Collection to be used to create a dummy package for package BIND compare.</p>
COMPARE DBRM NAMES	<p>Indicates whether to compare DBRM names.</p> <p>Y Yes N No</p>
COMPARE STATEMENT NUMBERS	<p>Indicates whether to compare statement numbers.</p> <p>Y Yes N No</p>
DISPLAY BIND COMPARE CONFIRMATION PANEL?	<p>Whether to display confirmation panel for BIND compare.</p> <p>Y Yes N No</p>
EXECUTE BIND COMPARE GENERATE OPTION?	<p>Indicates when to execute the BIND command generation option of the BIND Compare command. You can cause BIND/REBIND commands to be generated for entities (Plans/Packages/DBRMs) that are BIND Compared:</p> <ul style="list-style-type: none"> • When an entity's access path has changed • When an entity's access path has not changed <p>You use the options on this panel to control the execution of Bind Compare command generation. Valid values for this field are:</p> <p>N BIND/REBIND commands are not generated when a BIND Compare command or select is executed. C BIND/REBIND commands are to be generated only when a BIND Compare command is executed. S BIND/REBIND commands are to be generated only when a BIND Compare select is executed.</p>
EXECUTE BIND/REBIND FOR DIFFERENT PATHS?	<p>Indicates whether to execute BIND or REBIND commands generated for entities whose access paths have changed or whether to generate a list of the packages or plans for which commands would have been generated. This option is applicable to batch processing only. Valid values for this field are:</p> <p>N Do not execute commands. Y Execute commands.</p>

FIELD	DESCRIPTION
EXECUTE BIND/REBIND FOR SAME PATHS?	<p>Indicates whether to execute BIND or REBIND commands generated for entities whose access paths have not changed or whether to generate a list of the packages or plans for which commands would have been generated. This option is applicable to batch processing only. Valid values are:</p> <p>N Execute commands. Y Do not execute commands.</p>
GENERATE BIND/REBIND FOR DIFFERENT PATHS?	<p>Indicates whether to generate BIND or REBIND commands when the entities being BIND Compared have different access paths. The generated BIND or REBIND commands are stored in the User PDS having the member name you have specified in the field USER PDS MEMBER TO SAVE DIFFERENCES IN. The BIND/REBIND commands will be generated according to how the entity is currently bound unless you have specified that the Plan/Package BIND Overrides should be used when generating BINDS for BIND Compare. See “Plan BIND Overrides” on page 341 and “Package BIND Overrides” on page 328 for information on Plan and Package Bind Overrides respectively.</p> <p>Valid values for this field are:</p> <p>N No commands are to be generated. B BIND commands are to be generated. R REBIND commands are to be generated. L Do not generate commands. Instead generate a list of packages or plans for which commands would have been generated.</p>
GENERATE BIND/REBIND FOR SAME PATHS?	<p>Indicates whether to generate BIND or REBIND commands when the entities being BIND Compared have no access path differences. The generated BIND or REBIND commands are stored in the User PDS having the member name you have specified in the field USER PDS MEMBER TO SAVE DIFFERENCES IN. The BIND/REBIND commands will be generated according to how the entity is currently bound unless you have specified that the Plan/Package BIND Overrides should be used when generating BINDS for BIND Compare. See “Plan BIND Overrides” on page 341 and “Package BIND Overrides” on page 328 for information on Plan BIND Overrides and Package BIND Overrides respectively.</p> <p>Valid values for this field are:</p> <p>N No commands are to be generated. B BIND commands are to be generated. R REBIND commands are to be generated. L Do not generate commands. Instead generate a list of packages or plans for which commands would have been generated.</p>
GENERATE PLAN OR PACKAGE BINDS FOR DBRMS?	<p>If you have specified Yes to the generate options on this panel, determines whether the BIND or REBIND commands generated when comparing DBRMs will be plan BINDs or package BINDs.</p> <p>Valid values for this field are:</p> <p>P Generate plan BINDs. K Generate package BINDs.</p>
MODIFY ONTO USER PDS MEMBERS?	<p>Determines whether output created by BIND/REBIND is appended to output already in an existing PDS member or whether the output overwrites the existing output.</p> <p>Valid values for this field are:</p> <p>Y Append the output to the information in the member. N Overwrite the information in the existing member with this output.</p>

BIND Compare Options

FIELD	DESCRIPTION
PERMANENT?	Indicates if changes are permanent (Y) or are for the current session of !DB/EXPLAIN only (N).
SUFFIX TO USE FOR PLAN BIND COMPARE	Character to append to the userid when forming a dummy plan for Plan BIND compare.
USER PDS MEMBER TO SAVE DIFFERENCES IN	Names the User PDS member in which to save the commands generated for entities whose access paths have changed. The member name field will accept the variable &USER to indicate that the member name should be the TSO User ID. The member Name may also be specified as &USER S to indicate that the member name is the TSO User ID concatenated with the character S . The concatenation character must be the same as that specified on the EXPLAIN/SQL Defaults panel KTEPHOMI.
USER PDS MEMBER TO SAVE SAME IN	Names the User PDS member in which to save the commands generated for entities whose access paths have not changed. The member name field will accept the variable &USER to indicate that the member name should be the TSO User ID. The member Name may also be specified as &USER S to indicate that the member name is the TSO User ID concatenated with the character S . The concatenation character must be the same as that specified on the EXPLAIN/SQL Defaults panel KTEPHOMI.
USER PDS MEMBER TO SAVE ERRORS IN	Names the User PDS member in which to save the commands generated for entities for which an error was encountered during the BIND process. (An example is the case where the BIND Compare fails due to missing dependent objects of the Plan or Package being BIND Compared.) The member name you enter in this field can be the variable &USER to indicate that the member name should be the TSO User ID. The member name can also be specified as &USER S to indicate that the member name is the TSO User ID concatenated with the character S . The concatenation character must be the same as that specified on the EXPLAIN/SQL Defaults panel KTEPHOMI. Note: Commands are saved in this member only if the value of the fields EXECUTE BIND/REBIND FOR SAME or DIFFERENT PATHS is B or R .

Build Tuning Parameters

Overview

This unit describes the Build Tuning Parameters panel.

Background about the Build Tuning Parameters panel

The Build Tuning Parameters panel (KTEPHOVC) allows you to describe the parameters of the data about to be processed. Underestimating these parameters can result in elongated processing time. Overestimating these parameters can result in acquiring more storage space than necessary.

Access

You can access the Build Tuning Parameters panel from the Housekeeping panel.

Panel

The following information shows the Build Tuning Parameters panel.

```

----- DB/EXPLAIN DB2=D31A ----- LINE 1 OF 946
          B U I L D   T U N I N G   P A R A M E T E R S

PERMANENT? ==> N ( Y Yes  N No )

Enter estimated number of the following:
Plans          ==> 50          Connections per Plan   ==> 0
Packages       ==> 100         Connections per Package ==> 0
Unique DBRMs   ==> 500         DBRMs per Plan        ==> 2
Tables         ==> 100         Packages per Plan     ==> 4
Collections    ==> 25          Packages Lists per Plan ==> 2
Explainable Statements per DBRM / package ==> 10
Tables referenced by an Explainable Statement ==> 1

Estimate Adjustor ==> 0
When to consider two DBRMs to be the same DBRM ==> 2 (0/1/2)

Specify which of following should be used in determining when two packages are
the same: Collid Y Contoken Y Version N PDSNAME N

Use package BIND or CREATE timestamp in determining relative ages > B

ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
ESTIMATE ADJUSTER	Value to divide estimates by.
NUMBER OF COLLECTIONS	Estimated total number of collections.
NUMBER OF CONNECTIONS PER PACKAGE	Estimated average number of connections per package.
NUMBER OF CONNECTIONS PER PLAN	Estimated average number of connections per plan.
NUMBER OF DBRMS PER PLAN	Estimated average number of DBRMs per plan.
NUMBER OF EXPLAINABLE STATEMENTS PER DBRM/PACKAGE	Estimated average number of (SELECTS + DELETES + UPDATES + INSERTS + DECLARE CURSORS) per DBRM/package.
NUMBER OF PACKAGES	Estimated total number of packages.
NUMBER OF PACKAGES PER PLAN	Estimated average number of packages per plan.
NUMBER OF PLANS	Estimated total number of plans.
NUMBER OF TABLES	Estimated total number of tables referenced.
NUMBER OF TABLES REFERENCED BY AN EXPLAINABLE STATEMENT	Estimated average number of tables referenced by an explainable statement.
NUMBER OF UNIQUE DBRMS	Estimated total number of unique DBRMs.

FIELD	DESCRIPTION
SPECIFY WHICH OF THE FOLLOWING TO USE TO DETERMINE WHEN TWO PACKAGES ARE THE SAME	<p>Specifies which of the following parameters should be used to determine when two packages are the same. If you change any of these options after you have performed a BUILD, you must perform a REFRESH in order to make your new options effective.</p> <ul style="list-style-type: none"> ● COLLID ● CONTOKEN ● Version ● PDSNAME <p>Valid values for each of these parameters can be:</p> <p>Y Yes</p> <p>N No</p>
USE PACKAGE BIND OR CREATE TIMESTAMP IN DETERMINING RELATIVE AGES	<p>Specifies whether the BIND or CREATE timestamp should be used to determine the relative ages of packages.</p> <p>B Use BIND timestamp</p> <p>C Use CREATE timestamp</p>
WHEN TO CONSIDER TWO DBRMS TO BE THE SAME DBRM	<p>Specifies when to consider two DBRMs to be the same DBRM.</p> <p>0 All DBRMs are unique.</p> <p>1 DBRMs are the same if they have the same name, contoken, version, and pdsname.</p> <p>2 DBRMs are the same if they have the same name, contoken, and version.</p> <p>Note: This is the default value.</p> <p>Note: If you specify a value of 1 or 2, and you are performing one of the following types operations with the DBRMs, the DBRM displays will be inaccurate.</p> <ul style="list-style-type: none"> ● Editing DBRMs <ul style="list-style-type: none"> – precompile DBRM X then bind plan X including DBRM X. – Edit DBRM X changing the name of the table owners, then bind plan Y including DBRM X. – Note: From a DB2 standpoint, the DBRM name is the same, the contoken is the same, and the pdsname can possibly be the same, but the DBRMs are NOT the same. ● Using levels and/or versioning at precompile time and not ensuring that the DBRM is unchanged at each level/version. <ul style="list-style-type: none"> – Precompile DBRM X at level AAAA version BBBB and bind plan X including DBRM X. – Modify program X's SQL calls, precompile DBRM X at level AAAA version BBBB, and bind plan Y including DBRM X. – Note: From a DB2 standpoint, the DBRM name is the same, the contoken name is the same, the version name is the same, and the pdsname is the same, but the DBRMs are NOT the same.

Compare Options

Overview

This unit describes the Compare Options panel.

Background about the Compare Options panel

The Compare Options panel (KTEPHOCO) has been split in two in Version 235s with most fields moved to the BIND Compare Options panel (KTEPHOBC). The Compare Options panel allows you to override compare options in the profile dataset for use during the current !DB/EXPLAIN session to compare EXPLAINS. You can specify whether the changes are permanent or are for the current session only.

Access

You can access the Compare Options panel from the Housekeeping panel.

Panel

The following illustration shows the Compare Options panel.

```
----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

          C O M P A R E   O P T I O N S

PERMANENT? ==>   ( Y Yes  N No  U User)

Compare statement numbers?      ==> Y (Y Yes  N No)
Compare DBRM names?            ==> Y (Y Yes  N No)

ENTER to process  END to cancel
```

Fields

FIELD	DESCRIPTION
COMPARE DBRM NAMES	Indicates whether to compare DBRM names. Y Yes N No
COMPARE STATEMENT NUMBERS	Indicates whether to compare statement numbers. Y Yes N No

Data Formats

Overview

This unit describes the Data Formats panel.

Background about the Data Formats panel

The Data Formats panel (KTEPHOMF) allows you to control the format of several data fields used throughout !DB/EXPLAIN. You can specify whether the changes you make are effective permanently or only for the current session of !DB/EXPLAIN.

Access

You can access the Data Formats panel from the Housekeeping panel.

Panel

This is the Data Formats panel.

```

----- DB/EXPLAIN  DB2=D31A -----
Cmd ==>
                D A T A    F O R M A T S

PERMANENT? ==>  ( Y Yes  N No )

    TIME ==> 1  1 HH:MM:SS 2 HH.MM.SS
    DATE ==> 4  1 YYYY/MM/DD  2 YYYY-MM-DD  3 MM/DD/YYYY  4 MM-DD-YYYY
                5 DD.MM.YYYY  6 DD.MM.YYYY  7 YY/MM/DD  8 YY-MM-DD
                9 MM/DD/YY  10 MM-DD-YY  11 DD.MM.YY  12 DD/MM/YY

TIMESTAMP ==> 4  1 YYYY/MM/DD HH:MM:SS.TTTTTT 2 YYYY-MM-DD HH:MM:SS.TTTTTT
                3 MM/DD/YYYY HH:MM:SS.TTTTTT 4 MM-DD-YYYY HH:MM:SS.TTTTTT
                5 DD.MM.YYYY HH:MM:SS.TTTTTT 6 DD/MM/YYYY HH:MM:SS.TTTTTT
                7 YYYY/MM/DD HH:MM:SS 8 YYYY-MM-DD HH:MM:SS
                9 MM/DD/YYYY HH:MM:SS 10 MM-DD-YYYY HH:MM:SS
                11 DD.MM.YYYY HH:MM:SS 12 DD/MM/YYYY HH:MM:SS

    COUNT ==> 3  1 9999999  2 9.999.999  3 9,999,999
    COSTS1 ==> 3  1 9999999  2 9.999.999,99  3 9,999,999.99
    COSTS2 ==> 2  1 /1000  2 ASIS  3 /100  4 /10000  5 /100000  6 /4096

ENTER to process  END to cancel

```

Fields

DATA FIELD	DESCRIPTION
COSTS1	Format for displaying costs.
COSTS2	Scaling for displaying cost.
COUNT	Format for displaying numeric data.
DATE	Format for displaying dates.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).
TIME	Format for displaying time.
TIMESTAMP	Format for displaying timestamps.

!DB/EXPLAIN Configuration Information

Overview

This unit describes the !DB/EXPLAIN Configuration Information panel.

Background about the !DB/EXPLAIN Configuration Information panel

The !DB/EXPLAIN Configuration Information panel (KTEHOAD) allows you to specify the plan names, data set names, and output characteristics of !DB/EXPLAIN as configured for the current Extract ID. This information is not shared across multiple Extract IDs. Each Extract ID has its own member stored in the profile data set. You can enter new values by typing over the existing ones. The new values are written to the profile data set that is specified on the Housekeeping panels.

Access

You can access the !DB/EXPLAIN Configuration Information panel from the Housekeeping panel.

Panel

```

----- DB/EXPLAIN DB2=D42B -----
Cmd ==>

                !DB/EXPLAIN CONFIGURATION INFORMATION
PERMANENT? == Y ( Y Yes  N No  0

PLAN Names:
  Primary   RG301R    Extract   RG301X    For SQL Execution   RG301Q

Extract Data Sets: CATALOG   RGRAH.V301.SYSCAT
                   PLANS     RGRAH2.V301.PLANTABL
                   STATEMENTS RGRAH2.V301.SYSSTMT
Product Data Sets: System PDS RGRAH2.TE301.EXP.SYSTEM
                   User PDS  RGRAH2.TE301.EXP.USER
                   Log PDS   RGRAH2.TE301.EXP.LOG

Extract Sort Parameters:

```

Fields

DATA FIELD	DESCRIPTION
CATALOG	Name of the CATALOG extract data set.
EXTRACT	Name of plan used for running the extract.
EXTRACT SORT PARAMETERS	Sort parameters needed by the sort product used at your site (for example, DFSORT parameters). Separate multiple parameters with commas. The extract will pass these parameters to the sort product. Refer to your sort product's documentation for valid parameters.
FOR SQL EXECUTION	Name of plan used for SQL execution.
LOG PDS	Name of the product log PDS.
PLANS	Name of the PLANS extract data set.
PRIMARY	Name of plan used for running !DB/EXPLAIN.
STATEMENTS	Name of the STATEMENTS extract data set.
SYSTEM PDS	Name of the product system PDS.
USER PDS	Name of the product user PDS.

!DB/Tools DB2 Configuration Information

Overview

This unit describes the !DB/Tools DB2 Configuration Information panel.

Background about the !DB/Tools DB2 Configuration Information panel

The !DB/Tools DB2 Configuration Information panel (KTBPHODB) displays the !DB/Tools information for the extract ID. The extract ID is the basic unit of configuration for !DB/EXPLAIN. With Candle's new Extract technology, several extracts can be stored in the same dataset. An extract ID identifies a particular extract or set of extracts performed on a DB2 subsystem. You may define an extract ID to identify all data extracted from a DB2 subsystem, or a particular range or set of data extracted from a DB2 subsystem.

You can enter new values by typing over the existing ones. The new values are written to the profile dataset that is specified on the Housekeeping panels.

Note: DBRMs which were precompiled using a pre-DB2 V1R3 (1.3) precompiler *may* contain statements which !DB/EXPLAIN incorrectly interprets. EXPLAINs of such statements can result in -417 or -418 SQLCODES or an inaccurately reported access path.

See “EXPLAIN/SQL Defaults” on page 310 for information on the options you have for avoiding -417 and -418s.

Access

You can access the !DB/Tools DB2 Configuration Information panel by selecting option 1 from the Housekeeping panel.

Panel

The following illustration shows the !DB/Tools DB2 Configuration Information panel.

```

----- DB/Tools -----
Cmd ==>

                DB/Tools DB2 Configuration Information

1 Extract ID          ==> D42B          2 MVS ID            ==> SYSG
3 Extract Description ==> DB2 V4.2 Subsystem
4 DB2 Subsystem ID   ==> D42B          5 DB2 Version       ==> 420
6 DB2 Location Name  ==> DB31          7 DSNTIAUL Plan Name ==> DSntAU42
8 Real Catalog Prefix ==> SYSIBM       9 DSNTIAD Plan Name  ==> DSNTIA42
10 Catalog Prefix    ==> SYSIBM      11 DSNZPARM Member Name ==> D42BPARM
12 DB/Tools Database ==> KTCDBD       14 DB/Tools Qualifier ==> CDB
13 Collection Id Prefix ==> RG301

15 DB2 DSNLOAD Data Set ==> PP.DB2.V420.S26.SDSNLOAD
16 DB2 DSNEXIT Data Set ==> PP.DB2.V420.S26.SDSNEXIT
17 DB2 RUNLIB Data Set ==> PP.DB2.V420.S26.RUNLIB.LOAD
18 Data Set Containing DSNHDECP ==> PP.DB2.V420.S26.SDSNLOAD
19 Data Set Containing DSN1COPY ==> PP.DB2.V420.S26.SDSNLOAD
20 Data Set Containing DSNTIAUL ==> PP.DB2.V420.S26.RUNLIB.LOAD
21 Data Set Containing DSNTIAD ==> PP.DB2.V420.S26.RUNLIB.LOAD
22 Data Set Containing DSNZPARM ==> PP.DB2.V420.S26.SDSNEXIT

```

Fields

DATA FIELD	DESCRIPTION
CATALOG PREFIX	DB2 catalog prefix.
DB/Tools Database	Name of the database that contains the DB/Tools objects.
COLLECTION ID PREFIX	Prefix for constructing called ID for packages. !DB/EXPLAIN concatenates the CATALOG PREFIX and the COLLECTION ID PREFIX to equal the COLLECTION.
dataset CONTAINING DSN1COPY	Name of the dataset which contains DSN1COPY.
dataset CONTAINING DSNHDECP	Name of the dataset which contains DSNHDECP.
dataset CONTAINING DSNTIAUL	Name of the dataset which contains DSNTIAUL.
dataset CONTAINING DSNTIAD	Name of the dataset which contains DSNTIAD.

DATA FIELD	DESCRIPTION
dataset CONTAINING DSNZPARM	Name of the dataset which contains the DSNZPARM LOAD module.
!DB/Tools DATABASE	Name of the DB2 database which contains the !DB/Tools objects.
DB2 DSNEXIT dataset	Name of the dataset which contains DSNEXIT.
DB2 DSNLOAD dataset	Name of the dataset which contains DSNLOAD. The !DB/Tools assume that the DB2 LOADLIB (DSNLOAD) is in your system LINKLIST. See the <i>!DB/Tools Installation and Customization Guide</i> chapter entitled “Before You Begin” for additional information.
DB2 LOCATION NAME	Location name of the local DB2 subsystem. Used for DB2 V2.3 or higher.
DB2 RUNLIB dataset	Name of the DB2 RUNLIB dataset.
DB2 SUBSYSTEM ID	ID of the current DB2 subsystem.
DB2 VERSION	DB2 Version for the current DB2 subsystem.
DSNTIAUL PLAN NAME	Name of the DSNTIAUL plan.
DSNTIAD PLAN NAME	Name of the DSNTIAD plan.
DSNZPARM MEMBER NAME	Name of member which contains DSNZPARMs.
EXTRACT ID	Extract ID is the basic unit of configuration for !DB/EXPLAIN. This eight character field identifies a particular extract or set of extracts on a DB2 subsystem. There may be many extract IDs per DB2 subsystem.
EXTRACT DESCRIPTION	This optional field contains a description of the extract. You can enter any text of up to 45 characters into this field.
MVS ID	ID of the current MVS system. This ID is for local documentation only.
REAL CATALOG PREFIX	The prefix of the actual DB2 catalog tables if the prefix specified for Catalog Prefix is for a shadow catalog.

!DB/Tools Global Configuration Information

Overview

This unit describes the !DB/Tools Global Configuration Information panel.

Background about the !DB/Tools Global Configuration Information panel

The !DB/Tools Global Configuration Information panel (KTBPFOGL) displays the global !DB/Tools information for the current MVS system. You can enter new values by typing over the existing ones. The new values are written to the profile dataset that is specified on the Housekeeping panels.

Access

You can access the !DB/Tools Global Configuration Information panel by selecting option 0 from the Housekeeping panel.

Panel

The following illustration shows the !DB/Tools Global Configuration Information panel.

```

----- DB/Tools -----
Cmd ==>

                DB/Tools Global Configuration Information

PERMANENT?          ==> Y          ( Y Yes  N No )

VIO Symbolic Name   ==> VIO
Temp Disk Symbolic Name ==> SYSDA
Max BLKSIZE for VIO ==> 6160
SYSOUT Hold Class   ==> X
Enable Edit Recovery? ==> N          ( Y Yes  N No )
RETURN = EXIT?      ==> N          ( Y Return exits
                                   N Return goes to Primary Menu )

```

The following illustration shows the !DB/Tools Global Data Set Information panel.

```

----- DB/Tools -----
Cmd ==>

          DB/Tools Global Data Set Information

CAUTION:  These are the names of your production DB/Tools data sets.
          Please be careful when changing them.

CLIST  Data Set ==> RGRAH2.TE301.CLISTFB
CNTL   Data Set ==> RGRAH2.TE301.CNTL
LOAD   Data Set ==> RGRAH2.TE301.LOAD
DBRM   Data Set ==> TDKT.TE301REL.DBRM
MSGS   Data Set ==> RGRAH2.TE301.MSGS
PANELS Data Set ==> RGRAH2.TE301.PANELS
TABLES Data Set ==> RGRAH2.TE201.CNTL
SKELS  Data Set ==> RGRAH2.TE301.SKELS
UTIL   Data Set ==>
    
```

Fields

Descriptions for fields found on the preceding panels are listed below.

DATA FIELD	DESCRIPTION
CLIST LIBRARY	Name of the library containing the product CLISTs.
CNTL dataset	Name of the library containing the product JCL.
DBRM LIBRARY	Name of the library containing the DBRMs required to BIND the product plans.
LOAD LIBRARY	Name of the library containing the !DB/Tools LOAD modules.
MAX BLKSIZE FOR VIO	Maximum block size to use when allocating VIO datasets. Specify 0 to use the system-determined block size.
MSGS dataset	Name of the dataset containing the product messages.
PANELS dataset	Name of the dataset containing the product panels.
SKELS dataset	Name of the dataset containing the product skeletons. This field is not used by !DB/EXPLAIN.
SYSOUT HOLD CLASS	Your installation's hold class. If not specified, class X is assumed.
TABLES dataset	Name of the dataset containing the product command and data tables.
TEMP DISK SYMBOLIC NAME	Symbolic name for temporary disk files; specific to a given MVS system.
UTIL dataset	Contains the product utility profiles.
VIO SYMBOLIC NAME	Symbolic name for virtual I/O. It is specific for the current MVS system.

!DB/Tools Global Information—DB2 Subsystem Name Table

Overview

This unit describes the !DB/Tools Global Information—DB2 Subsystem Name Table panel.

Background about the !DB/Tools Global Information—DB2 Subsystem Name Table panel

The !DB/Tools Global Information—DB2 Subsystem Name Table panel (KTCPBDS) displays all of the Extract IDs defined on the MVS system. You may select an Extract ID by entering a character next to the Extract ID you want. !DB/EXPLAIN runs on the Extract ID you select.

Access

You can access the !DB/Tools Global Information—DB2 Subsystem Name Table panel by selecting DB2 IDS from the Administration Menu (KTEPADMN).

Panel

The following illustration shows the !DB/Tools Global Information —DB2 Subsystem Name Table panel.

```

----- !DB/Tools Profile Information -- Global -----
Cmd ==>

                                DB2 Subsystem Name Table

These are the DB2 subsystem names or extract ids for which !DB/Tools are
configured, with their corresponding DB2 subsystem ids and MVS system
ids. To select an extract id simply type a character in the selection column
and press Enter.

      Extract   DB2
SEL      ID     SSID  MVS ID  Description
-----
      D22A     D22A  CACOWLAG  Production DB2 Extract
      D22ATST1 D22A  CACOWLAG  Stress DB2 Extract
      D22ATST2 D22A  CACOWLAG
      D23A     D23A  CACOWLAG
      D23ATST1 D23A  CACOWLAG  Test DB2 Extract
      D23ATST2 D23A  CACOWLAG
      D23B     D23B  CACOWLAG

```

Fields

DATA FIELD	DESCRIPTION
DB2 SSID	The DB2 subsystem IDs for each Extract ID. Each SSID may have many Extract IDs associated with it.
DESCRIPTION	Optional field into which you can enter a description or purpose of a particular extract.
EXTRACT ID	Names of the Extract IDs configured on the MVS system. Each Extract ID identifies a particular Extract or set of Extracts performed on a DB2 subsystem.
MVS ID	The MVS ID for each DB2 SSID.

!DB/Tools Profile Dataset List

Overview

This unit describes the !DB/Tools Profile Dataset List panel.

Background about the !DB/Tools Profile Dataset List panel

The !DB/Tools Profile Dataset List panel (KTCPPRF0) displays the user and auxiliary profile datasets that will be in effect the next time you enter !DB/EXPLAIN. You can enter new values by typing over the existing ones and pressing Enter. If you specify that user and auxiliary profile datasets are not to be used, !DB/EXPLAIN uses the default profile datasets specified in the KTCSETUP JCL.

Access

You may access the !DB/Tools Profile Dataset List panel by running the KTCPRFST CLIST.

Panel

This is the !DB/Tools Profile Dataset List panel.

```

----- !DB/Tools Profile Information -- Profile Data Set List -----
Cmd ==>

                                !DB/TOOLS PROFILE DATA SET LIST

These data sets are used, in conjunction with your System profile data set,
to determine the exact configuration for !DB/Tools products. The data sets
in this list are optional, but use of a User profile data set is very highly
recommended. If you make use of an Auxiliary profile data set, use of a User
profile data set is again very highly recommended. You must either specify
a data set name for each of these, or mark the field indicating that you do
not want a data set to be used for this purpose.

Profile
data set      Use this
type:         data set?   Data Set name:
=====
User          Y          TDTD00.E500.XXXX.PROFILE
Auxiliary     N

```

Fields

DATA FIELD	DESCRIPTION
DATASET NAME	The names of the user and auxiliary profile datasets that you want to be in effect the next time you access !DB/EXPLAIN. These datasets take effect only if you specify Y in the “Use this dataset?” field. Otherwise, !DB/EXPLAIN uses the default profile datasets for your user ID. The defaults usually are set up by the installer or the !DB/Tools administrator at your site.
PROFILE DATASET TYPE	Identifies the User and Auxiliary profile dataset rows.
USE THIS DATASET?	Specifies whether you want to use the dataset named at the right as the user or auxiliary dataset. If you specify Y , the profile dataset takes effect the next time you enter !DB/EXPLAIN. If you specify N , !DB/EXPLAIN uses the default profile datasets for your user ID.

Exception Options

Overview

This unit describes the Exception Options panel.

Background about the Exception Options panel

The Exception Options panel (KTEPHOXO) allows you to control the amount of exception information that will be produced when you access the Exceptions panel. You can specify whether you want the Exception Options panel to be displayed before every access of the Exceptions panel so that you can alter the amount of exception information !DB/EXPLAIN produces. You can also specify whether or not the changes are to be made permanent or to be in effect for the current session only.

Access

You can access the Exception Options panel from the Housekeeping Menu panel (KTEPHOUS).

Panel

The following illustration shows the Exception Options panel.

```

----- DB/EXPLAIN  DB2=D31A -----
Cmd ==>

                E X C E P T I O N    O P T I O N S

PERMANENT? ==>  ( Y Yes  N No )

                                ----- Accessing Exceptions from: -----
                                Primary   Statements   Plans / Packages
                                Menu     Panel       DBRMs / Tables
                                -----   -----   -----
Display EXCEPTION OPTIONS Panel?
Process XCPT Type Exceptions?
Process BIND Type Exceptions?
Process OBJECT Type Exceptions?
Process SQL Type Exceptions?
Process SQL ERROR Type Exceptions?

ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
DISPLAY EXCEPTION OPTIONS PANEL?	<p>Determines whether to display the Exception Options panel prior to producing exceptions. The values you can enter vary with the panel from which you are producing exceptions.</p> <p>From the Primary Menu, the valid values are:</p> <p>Y Display the Exception Options panel.</p> <p>N Do not display the Exception Options panel.</p> <p>From the Statements, DBRMs, Plans, Packages, or Tables panels, the valid values are:</p> <p>Y Display the Exception Options panel.</p> <p>N Do not display the Exception Options panel.</p> <p>S Display the Exception Options panel only after a Select.</p> <p>C Display the Exception Options panel only after a Command.</p>
PERMANENT	<p>Indicates whether to update the profile data set with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).</p>
PROCESS BIND TYPE EXCEPTIONS?	<p>Indicates whether to process BIND exceptions. The values you can enter vary with the panel from which you are producing exceptions.</p> <p>From the Primary Menu, the valid values are:</p> <p>Y Process BIND exceptions.</p> <p>N Do not process BIND exceptions.</p> <p>From the Statements, DBRMs, Plans, Packages, or Tables panels, the valid values are:</p> <p>Y Process BIND exceptions.</p> <p>N Do not process BIND exceptions.</p> <p>S Process BIND exceptions only after a Select.</p> <p>C Process BIND exceptions only after a Command.</p>

FIELD	DESCRIPTION
PROCESS OBJECT TYPE EXCEPTIONS?	<p>Indicates whether to process object type exceptions. The values you can enter vary with the panel from which you are producing exceptions.</p> <p>From the Primary Menu, the valid values are:</p> <p>Y Process object type exceptions.</p> <p>N Do not process object type exceptions.</p> <p>From the Statements, DBRMs, Plans, Packages, or Tables panels, the valid values are:</p> <p>Y Process object type exceptions.</p> <p>N Do not process object type exceptions.</p> <p>S Process object type exceptions only after a Select.</p> <p>C Process object type exceptions only after a Command.</p>
PROCESS SQL TYPE EXCEPTIONS?	<p>Indicates whether to process SQL type exceptions. The values you can enter vary with the panel from which you are producing exceptions.</p> <p>From the Primary Menu, the valid values are:</p> <p>Y Process SQL type exceptions.</p> <p>N Do not process SQL type exceptions.</p> <p>From the Statements, DBRMs, Plans, Packages, or Tables panels, the valid values are:</p> <p>Y Process SQL type exceptions.</p> <p>N Do not process SQL type exceptions.</p> <p>S Process SQL type exceptions only after a Select.</p> <p>C Process SQL type exceptions only after a Command.</p>
PROCESS SQL ERROR TYPE EXCEPTIONS?	<p>Indicates whether to process SQL error type exceptions. The values you can enter vary with the panel from which you are producing exceptions.</p> <p>From the Primary Menu, the valid values are:</p> <p>Y Process SQL error type exceptions.</p> <p>N Do not process SQL error type exceptions.</p> <p>From the Statements, DBRMs, Plans, Packages, or Tables panels, the valid values are:</p> <p>Y Process SQL error type exceptions.</p> <p>N Do not process SQL error type exceptions.</p> <p>S Process SQL error type exceptions only after a Select.</p> <p>C Process SQL error type exceptions only after a Command.</p>

Exception Options

FIELD	DESCRIPTION
PROCESS XCPT TYPE EXCEPTIONS?	<p>Indicates whether to process XCPT exceptions. The values you can enter vary with the panel from which you are producing exceptions.</p> <p>From the Primary Menu, the valid values are:</p> <p>Y Process XCPT exceptions.</p> <p>N Do not process XCPT exceptions.</p> <p>From the Statements, DBRMs, Plans, Packages, or Tables panels, the valid values are:</p> <p>Y Process XCPT exceptions.</p> <p>N Do not process XCPT exceptions.</p> <p>S Process XCPT exceptions only after a Select.</p> <p>C Process XCPT exceptions only after a Command.</p>

EXPLAIN Defaults

Overview

This unit describes the EXPLAIN Defaults panel.

Background about the EXPLAIN Defaults panel

The EXPLAIN Defaults panel KTEPHOEX allows you to override the profile data set during the current !DB/EXPLAIN session. You can specify whether you want the changes to be permanent or for the current session of !DB/EXPLAIN only.

Panel

The following illustration shows the EXPLAIN Defaults panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

                E X P L A I N   D E F A U L T S

PERMANENT? ==>  ( Y Yes  N No )
Save Explain results?      ==> A (Y Yes  N No  A Save EXPLAIN and Stats)
Save Whatif results?      ==> N (Y Yes  N No)
Save EXPLAIN if Owner changed? ==> Y (Y Yes  N No)
Read EXPLAIN if Owner changed? ==> Y (Y Yes  N No)
Amount of statistics to gather ==> 2 (1 - 5)
Retain statistics for reuse? ==> Y (Y Yes  N No)
Alter SQL to avoid -417 / -418? ==> N (Y Yes  N No)
Alter SQL to avoid -117?   ==> 0 (Y Yes  N No  0 Only for KTEXPL)
Retain Explain display?    ==> N (Y Yes  N No)
JOIN of catalog tables for stats==> N (Y Yes  N No)
Research views and aliases? ==> Y (Y Yes  N No)
Merge Single statement EXPLAINS?==> N (Y Yes  N No)
Require all DBRMs for a plan? ==> N (Y Yes  N No)
Require all packages for a plan?==> N (Y Yes  N No)
Show all plan table rows?  ==> N (Y Yes  N No)
Interleave packages in report? ==> N (Y Yes  N No)

ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
AMOUNT OF STATISTICS TO GATHER	<p>Type of data to retrieve from catalog:</p> <ol style="list-style-type: none"> 1. SYSTABLESPACE, SYSTABLES, SYSINDEXES 2. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, and SYSCOLDISTSTATS 3. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS, and SYSKEYS 4. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS, SYSTABLEPART, SYSTABSTATS, SYSINDEXPART, and SYSINDEXSTATS 5. SYSTABLESPACE, SYSTABLES, SYSINDEXES, SYSCOLUMNS, SYSCOLSTATS, SYSCOLDIST, SYSCOLDISTSTATS, SYSKEYS, SYSTABLEPART, SYSTABSTATS, SYSINDEXPART, and SYSINDEXSTATS
ALTER SQL TO AVOID -117	<p>Indicates whether the !DB/EXPLAIN parser modifies SQL statements to avoid -117 errors on PREPAREs.</p> <p>An indication that the statement was altered to avoid a -117 will appear in the EXPLAIN results on panel KTEPEXPL. Valid values are:</p> <p>O The parser should modify only non-extracted SQL statements.</p> <p>Y The parser should modify all SQL statements.</p> <p>N No statements should be modified.</p>
ALTER SQL TO AVOID -417/-418?	<p>Indicates whether the !DB/EXPLAIN parser modifies SQL statements to avoid -417 and -418 errors on PREPAREs.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Not all -417 and -418 errors can be avoided • The Issue SQL Calls in Parser Exit field has an effect on avoiding -417/-418 errors. If you receive a -417 or -418 after having specified Y in the Alter SQL to Avoid -417/-418 field, do one of the following: <ul style="list-style-type: none"> – If you have specified N in the Issue SQL Calls in Parser Exit field, specify Y and re-EXPLAIN the statement – If you have specified Y in the Issue SQL Calls in Parser Exit field, specify A and re-EXPLAIN the statement – If you have specified A in the Issue SQL Calls in Parser Exit field, check the version of DB2 the DBRM was precompiled with. If the DB2 version used for precompile was prior to V130 (1.3), re-precompile, if possible. If the DB2 version used for precompile was V130 (1.3) or later, call Candle Customer Support. <p>Y Yes, modify the SQL statements. The reported access path on an EXPLAIN for a modified statement may be inaccurate. The KTEPEXPL panel warns of the modifications and potential inaccuracies.</p> <p>N No, do not modify the SQL statements</p>
DISPLAY PARTIAL PLAN EXPLAIN?	<p>Determines whether to display a Plan EXPLAIN when not all of the Packages or DBRMs constituting the Plan have been EXPLAINed.</p> <p>Y Display partial Plan EXPLAIN</p> <p>N Do not display partial Plan EXPLAIN</p>

FIELD	DESCRIPTION
FORCE XUPDT WHEN EXPLAINING?	<p>Determines whether XUPDT should be forced when explaining multiple entities (that is, should the specification for EXP_XUPDT_AFTER be overridden).</p> <p>N Do not override specification for EXP_XUPDT_AFTER Y Override the specification</p>
INTERLEAVE PACKAGES IN REPORT?	<p>When displaying a plan EXPLAIN report (generated by an EXPL* or GEXPL* command), indicates whether the EXPLAIN results for packages included in a plan should be placed after the EXPLAIN results of each plan in which the package is bound or whether all package EXPLAIN results should be placed at the bottom of the report.</p> <p>Y Display EXPLAIN results for package immediately after the EXPLAIN results for the plan in which the package is bound. This option can cause a package's EXPLAIN to appear multiple times in the EXPLAIN report. N Place all package EXPLAIN results at the bottom of the EXPLAIN report. This is the most efficient setting.</p>
JOIN OF CATALOG TABLES FOR STATS	<p>Indicates whether catalog tables should be joined when retrieving catalog statistics. (Some DB2 installations will obtain a better access path when joining the catalog tables.)</p> <p>Y Join catalog tables N Do not join catalog tables</p>
MERGE SINGLE STATEMENT EXPLAINS?	<p>Indicates whether to merge the EXPLAIN results of a single statement EXPLAIN with the cost and EXPLAIN results.</p> <p>Y Yes N No</p>
PERMANENT	<p>Indicates whether to update the profile data set with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).</p>
READ EXPLAIN IF OWNER CHANGED	<p>Indicates whether to read EXPLAIN results from the PLAN_TABLE extract if the owner at EXPLAIN time is different from the qualifier with which the entity was bound.</p> <p>Y Yes N No</p>
REQUIRE ALL DBRMS FOR A PLAN?	<p>Indicates whether all DBRMs included in a plan must be EXPLAINed before cost and EXPLAIN results are displayed.</p> <p>Y EXPLAIN all DBRMs before display. N It is not necessary to EXPLAIN all DBRMs before display.</p>
REQUIRE ALL PACKAGES FOR A PLAN?	<p>Indicates whether all PACKAGES included in a plan must be EXPLAINed before cost and EXPLAIN results are displayed.</p> <p>Y EXPLAIN all PACKAGES before display. N It is not necessary to EXPLAIN all DBRMs before display.</p>
RESEARCH VIEWS AND ALIASES?	<p>Indicates whether to query SYSTABLES to resolve views and aliases for creating EXPLAIN recommendations.</p> <p>Y Research views and aliases by querying SYSTABLES N Do not research views and aliases by querying SYSTABLES. This can cause some recommendations to be erroneously displayed.</p>

EXPLAIN Defaults

FIELD	DESCRIPTION
RETAIN EXPLAIN DISPLAY?	<p>Indicates whether to retain catalog the results of an EXPLAIN for subsequent display or printing.</p> <p>Y Retain EXPLAIN results for display/print. N Do not retain EXPLAIN results for display/print.</p>
RETAIN STATISTICS FOR REUSE?	<p>Indicates whether to retain catalog statistics read from the DB2 catalog during an EXPLAIN and make them available for reuse.</p> <p>Y Read catalog statistics for a table/index once for an EXPLAIN command and retain the information in storage for reuse. N Free catalog statistics storage at each commit point.</p>
SAVE EXPLAIN IF OWNER CHANGED	<p>Indicates whether to save EXPLAIN results if the owner was changed and is now different from the qualifier with which the entity was bound.</p> <p>Y Yes N No</p>
SAVE EXPLAIN RESULTS?	<p>Indicates whether to save EXPLAIN results:</p> <p>Y Yes N No A Save EXPLAIN and Statistics</p>
SAVE WHATIF RESULTS?	<p>Indicates whether to save Whatif results:</p> <p>Y Yes N No</p>
SHOW ALL PLAN_TABLE ROWS?	<p>Indicates whether, when one PLAN_TABLE row of a statements passes EXPLAIN filtering, all PLAN_TABLE rows should be displayed in the EPTBL or EPTBL2 section of the EXPLAIN display.</p> <p>Y Show all PLAN_TABLE rows if one passes filtering. N Show only those PLAN_TABLE rows that pass filtering.</p>

EXPLAIN Display Tuning Parameters

Overview

This unit describes the EXPLAIN Display Tuning Parameters panel.

Background about the EXPLAIN Display Tuning Parameters panel

The EXPLAIN Display Tuning Parameters panel permits you to:

- Use the Generate? column to control the amount of storage required to generate EXPLAIN displays by specifying which EXPLAIN display lines are generated. Only the display lines that are generated can be displayed.

If you decide to view display lines that were not generated for the EXPLAIN display, you can enter Housekeeping and indicate on this EXPLAIN Display Tuning Parameters panel (KTEPHOVD) which lines should be generated. You then reexecute EXPLAIN or, to save resources, execute a Latest EXPLAIN.

- Use the Format0 Display? column to specify whether information of a given type is included on your Format 0 EXPLAIN display.
- Use the Order column to specify the order in which information appears on your Format 0 display.

For expanded information on customizing the EXPLAIN display, see “Controlling the Format of the EXPLAIN Display” in the *!DB/EXPLAIN User's Guide*.

Panel

The following illustration shows the EXPLAIN Display Tuning Parameters panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

      E X P L A I N   D I S P L A Y   T U N I N G   P A R A M E T E R S

PERMANENT? ==>   ( Y Yes  N No )

      Generate?      Format0
      information   Display?  Order
EBIND information   Y         N         1
ERECM (Bind Specific)
ECOST information   Y         N         2

EOBJ  information   Y         N         5
EKEYS information   Y         N         6
EPATH information   Y         N         3
EPTBL information   Y         N
EPTB2 information   Y         N         2
ERECM information   Y         N         4
ESTMT information   Y         N         1

ENTER to process   END to cancel
    
```

Fields

The fields on the panel apply to the parameters listed down the left side of the panel. The top chart shows the type of information each parameter represents. The second chart lists the fields and their possible values.

Parameter	Generates:
EBIND	Plan bind or package bind information
ECOST	Cost information
EKEYS	Index key information
EOBJ	Detailed object information
EPATH	Access path summary information in textual form
ERECM	Recommendations. This parameter appears twice on the panel, the first time related to BIND statements, the second time related to statements in general. Additional information on limiting the specification of ERECM appears below.
ESTMT	Statement text and SQL error text (if !DB/EXPLAIN encounters an SQL error when preparing the statement to be EXPLAINED)
EPTBL and EPTB2	PLAN_TABLE information in a one-line or two-line format, respectively.

FIELD	DESCRIPTION
FORMAT0 DISPLAY?	Determines whether information about this entity will appear on your Format 0 display. Y Display information about this entity on Format 0. N Do not display information about this entity on Format 0.
GENERATE?	Determines whether EXPLAIN display lines are generated for this entity. Y Generate display lines for EXPLAIN or latest EXPLAIN. N Do not generate display lines for EXPLAIN or latest EXPLAIN. If display lines for a given entity are not generated, corresponding information will not be available on panel KTEPEXPL.
ORDER	Determines the order in which information about a given entity will appear in your Format 0 display. There are two sections of the Format 0 display. Each is ordered separately. For expanded information on using the ORDER field, see “Controlling the Format of the EXPLAIN Display” on page 303.

EXPLAIN/SQL Defaults

Overview

This unit describes the EXPLAIN/SQL Defaults panel.

Background about the EXPLAIN/SQL Defaults panel

The EXPLAIN/SQL Defaults panel KTEPHOMI allows you to override the profile dataset during the current !DB/EXPLAIN session. You can specify whether you want the changes to be permanent or for the current session of !DB/EXPLAIN only.

Panel

The following illustration shows the EXPLAIN/SQL Defaults panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

          E X P L A I N / S Q L   D E F A U L T S

PERMANENT? ==>  ( Y Yes  N No )

Type of SQL to issue          ==> S (S Static D Dynamic)
Prepare stmts to obtain cost? ==> Y (Y Yes  N No)
Display SQLCODE or SQLSTATE? ==> C (C SQLCODE S SQLSTATE)
Disconnect from DB2?         ==> N (Y Yes  N No)
Concatenation Character       ==> |
Not Sign Character            ==> 7
Convert Quotes?               ==> Y (Y Yes  N No)
Issue SQL calls in parser exit? ==> N (Y Yes  N No  A Always)

ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
CONCAT-ENATION CHARACTER	The character to use for the concatenation symbol in SQL statements (typically the vertical bar). This character is also used for library specifications.
CONVERT QUOTES	Indicates whether to convert SQL string delimiters from quotes to apostrophes when DECPSDL=DECPDFLT (SQL string delimiter = DEFAULT) Y Yes (Convert all " to ') N No (Internal check)
DISCONNECT FROM DB2?	Indicates whether !DB/EXPLAIN should disconnect from DB2 between functions. Valid values are: Y Disconnect from DB2. N Do not disconnect from DB2.
DISPLAY SQLCODE or SQLSTATE	Determines which of these values is displayed: C SQLCODE is displayed. S SQLSTATE is displayed.
ISSUE SQL CALLS IN PARSER EXIT	Indicates whether to issue SQL calls in the parser exit. The default value is No. Specify Yes if you are using synonyms or if you are not using colons in front of host variables. Y Yes. Considerable overhead is added. Queries SYSSYNONYMS for every unqualified table in a statement and SYSCOLUMNS for every column in a statement. N No (The default). May not be able to correctly parse all statements. A Always. Queries SYSSYNONYMS for every unqualified table. Queries SYSCOLUMNS for every word that may be a column.
NOT SIGN CHARACTER	The character to use for the not sign symbol in SQL statements.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).
PREPARE STMTS TO OBTAIN COST	Indicates whether to prepare SQL statements to obtain cost. Y Show cost N Cost field will be zero; this saves resources
TYPE OF SQL TO ISSUE	Identifies the type of SQL to execute: S Static D Dynamic

Extract Processing Defaults

Overview

This unit describes the Extract Processing Defaults panel.

Background about the Extract Processing Defaults panel

The Extract Processing Defaults panel KTEPHOEP allows you to override the profile dataset during the current !DB/EXPLAIN session. You can specify whether you want the changes to be permanent or for the current session of !DB/EXPLAIN only.

Panel

The following illustration shows the Extract Processing Defaults panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

      E X T R A C T   P R O C E S S I N G   D E F A U L T S

PERMANENT? ==>   ( Y Yes  N No )

Display Build status panels?   ==> Y (Y Yes  N No  0 Online Only)
Generations of catalog history ==> 1 (0=all)
Generations of Explain history ==> 10 (0=all)
Plan Table variance   Plan Pre ==> 60   Post 0       Pkg Pre 10   Post 5
Plan Table variance fuzzy match ==> Y (Y Yes  N No)
Plan Table associate new ones? ==> N (Y Yes  N No)
Max number of XUPDT VSAM errors ==> 10
Update profile dataset?       ==> Y (Y Yes  N No)

ENTER to process  END to cancel

```


Fields

FIELD	DESCRIPTION
DISPLAY BUILD STATUS PANELS	Indicates whether to display build status panels during product initialization. Y Yes N No
GENERATIONS OF CATALOG HISTORY	Indicates the number of generations of catalog history to display. 0 All <i>n</i> <i>n</i> generations
GENERATIONS OF EXPLAIN HISTORY	Indicates the number of generations of EXPLAIN history to retrieve from the PLAN_TABLE extract dataset for the EXPLAIN History display. 0 All historical versions of EXPLAIN history are retrieved. If 1 is specified, only the most recent EXPLAIN history is retrieved. (In effect, this means that no history is retrieved, since this is the latest EXPLAIN.) <i>n</i> <i>n</i> generations If a value other than 0 is specified, all of the available historical information may not be retrieved. Candle Corp. recommends you specify 0 for this parameter.
MAX NUMBER OF XUPDT VSAM ERRORS	Specifies the maximum number of VSAM errors permitted on XUPDT before termination.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).
PKG POST	This value is added to the Package Bind Timestamp to establish the youngest PLAN_TABLE TIMESTAMP to be associated with a package. Valid values 0 - 1440
PKG PRE	This value is subtracted from the Package Bind Timestamp to establish the oldest PLAN_TABLE TIMESTAMP to be associated with a package. Valid values 0 - 1440
PLAN POST	This value is added to the Plan Bind Timestamp to establish the youngest PLAN_TABLE TIMESTAMP to be associated with a plan. Valid values 0 - 1440
PLAN PRE	This value is subtracted from the Plan Bind Timestamp to establish the oldest PLAN_TABLE TIMESTAMP to be associated with a plan. Valid values 0 - 1440

Extract Processing Defaults

FIELD	DESCRIPTION
PLAN TABLE ASSOCIATE NEW ONES?	<p>Determines whether Plan Table extract records should be associated with catalog extract records having older timestamps.</p> <p>Y Associate Plan Table extract records with catalog extract records having older timestamps.</p> <p>N Do not associate Plan Table extract records with catalog extract records having older timestamps.</p> <p>No is recommended since specifying Yes can create incorrect access path information.</p>
PLAN TABLE VARIANCE	<p>The number of minutes to specify as the potential variance in the timestamps recorded for the bind and the PLAN_TABLE. For example, when a plan or package is bound with EXPLAIN(YES), the timestamps recorded in the PLAN_TABLE are earlier than the bind timestamp recorded in SYSPACKAGE or SYSPLAN. This value specifies the typical variance (in minutes) that the bind timestamps are permitted to be earlier than the PLAN_TABLE timestamp. In your environment, if plans and packages typically take a maximum of 15 minutes to bind, specify the variance as 15 minutes.</p>
UPDATE PROFILE DATASET?	<p>Determines whether the profile dataset should be updated with build information. Specifying Yes allows subsequent builds to "learn" from the current build.</p> <p>Y Yes, update profile dataset</p> <p>N No, do not update profile dataset</p>

Housekeeping

Overview

This unit describes the Housekeeping panel.

Background about the Housekeeping panel

The Housekeeping panel (KTEPHOUS) provides access to system and product options. You can change your default masks, output options, SQL creator ID, data field formats, panel formats, panel sorts and filters, library search order, and other information.

You also can change Global !DB/Tools information for the MVS subsystem, DB2 subsystem information for the !DB/Tools products on the DB2 subsystem, and !DB/EXPLAIN configuration information. For security reasons, all changes made in Housekeeping are written to the profile dataset that corresponds with the current user ID.

Access

You can access the Housekeeping Menu panel in the following ways:

- Select the Housekeeping Option on the !DB/EXPLAIN Administration Menu.
- Type and enter the command **HOUSE** or **HOUSE?** on the Command line of any !DB/EXPLAIN panel.

You can access any individual Housekeeping panel directly in the following ways:

- Type and enter the command **HOUSE n** on the Command line of any !DB/EXPLAIN panel. n is the number of a given panel on the Housekeeping Menu panel. For example, entering **HOUSE2** accesses the !DB/EXPLAIN Configuration panel.
- Type and enter the command **HOUSE mmm** on the Command line of any !DB/EXPLAIN panel. mmm is a mnemonic identifier that represents a specific Housekeeping panel. For example, the command **HOUSE MAS** accesses the Selection Masking panel. A list of the mnemonic codes for the Housekeeping panels follows.

Access (continued)

The following illustration shows the Housekeeping Menu and the mnemonic abbreviation for each housekeeping option.

Housekeeping Panel	Mnemonic Identifier	Mnemonic Abbreviation
0 - Global Information	GLOBAL	GLO
1 - DB2 Subsystem Information	DB2	DB2
2 - !DB/EXPLAIN Configuration	PRODUCT	PRO
3 - Library Search Order	LIBRARY	LIB
4 - Selection Masking	MASKING	MAS
5 - SET Defaults	SET	SET
6 - Output Options	OUTPUT	OUT
7 - Miscellaneous Defaults	MISCELLANEOUS	MIS
8 - Explain / SQL Defaults	DEFAULTS	DEF
9 - Explain Defaults	EXPLAIN	EXP
10 - SQL Defaults	SQL	SQL
11 - Compare Options	COMPARE	COM
12 - Extract Processing Defaults	EXTRACT	EXT
13 - Tuning Parameters	TUNING	TUN
14 - Build Tuning Parameters	BUILDTUNING	BUI
15 - Explain Display Tuning Parameters	XTUNING	XTU
16 - Data Formats	DATAFORMATS	DAT
17 - Panel Formats	FORMATS	FOR
18 - Panel Sorts	SORTS	SOR
19 - Panel Filters	FILTERS	FIL
20 - SQL Parameters for KTEXPL	KTEXPL	KTE
21 - Exception Options	XCPTOPTIONS	XCP
22 - Plan BIND Overrides	PLANBIND	PLA
23 - Package BIND Overrides	PACKAGEBIND	PAC
24 - BIND Compare Options	BINDCOMPARE	BIN
25 - Recommendations	RECOMMENDATIONS	REC

Panel

The following illustration shows the Housekeeping panel.

```
----- DB/EXPLAIN DB2=D42B -----
Cmd ==>
                                !DB/EXPLAIN HOUSEKEEPING MENU
Option ==>
  0 - Global Data Set Information      14 - Extract Processing Defaults
  1 - Global Configuration Information  15 - Tuning Parameters
  2 - Global Print Options             16 - Build Tuning Parameters
  3 - DB2 Subsystem Information        17 - Explain Display Tuning Parameters
  4 - DB/EXPLAIN Configuration        18 - Data Formats
  5 - Library Search Order             19 - Panel Formats
  6 - Selection Masking                20 - Panel Sorts
  7 - SET Defaults                    21 - Panel Filters
  8 - Output Options                  22 - SQL Parameters for KTEXPL
  9 - Miscellaneous Defaults           23 - Exception Options
 10 - Explain / SQL Defaults           24 - Plan BIND Overrides
 11 - Explain Defaults                 25 - Package BIND Overrides
 12 - SQL Defaults                    26 - BIND Compare Options
 13 - Compare Options                  27 - Recommendations

Press ENTER to process. Press END to cancel.
```

Fields

DATA FIELD	DESCRIPTION
OPTION	<p>Numeric field that represents the function to be invoked:</p> <p>0 Global Information - (KTCPAD0) Common panel used throughout !DB/Tools</p> <p>1 DB2 Subsystem Information (KTCPAD1) Common panel used throughout !DB/Tools</p> <p>2 !DB/EXPLAIN Configuration (KTEPHOAD) contains !DB/EXPLAIN product information</p> <p>3 Library Search Order (KTEPHOLS)</p> <p>4 Selection Masking (KTEPHOMK)</p> <p>5 SET Defaults (KTEPHOSE)</p> <p>6 Output Options (KTEPHOOD)</p> <p>7 Miscellaneous Defaults (KTEPHOMJ)</p> <p>8 EXPLAIN / SQL Defaults (KTEPHOMI)</p> <p>9 EXPLAIN Defaults (KTEPHOEX)</p> <p>10 SQL Defaults (KTEPHODS)</p> <p>11 Compare Options (KTEPHOCO)</p> <p>12 Extract Processing Defaults (KTEPHOEP)</p> <p>13 Tuning Parameters (KTEPHOVB)</p> <p>14 Build Tuning Parameters (KTEPHOVC)</p> <p>15 EXPLAIN Display Tuning Parameters (KTEPHOVD)</p> <p>16 Data Formats (KTEPHOMF)</p> <p>17 Panel Formats (KTEPHOPF)</p> <p>18 Panel Sorts (KTEPHOPS)</p> <p>19 Panel Filters (KTEPHODF)</p> <p>20 SQL Parameters for KTEXPL (KTEPHOSQ)</p> <p>21 Exception Options (KTEPHOXO)</p> <p>22 Plan BIND Overrides (KTEPHOBP)</p> <p>23 Package BIND Overrides (KTEPHOBK)</p> <p>24 BIND Compare Options (KTEPHOBC)</p> <p>25 Recommendations Menu (KTEPRECM)</p>
PROFILE dataset LIST	<p>USER Current user profile dataset, if applicable.</p> <p>AUXILIARY Current auxiliary profile dataset, if applicable. If there are multiple auxiliary profile datasets in the concatenation, the lowest level auxiliary profile is displayed here.</p> <p>SYSTEM Current system profile dataset.</p> <p>If only the SYSTEM dataset is displayed in the Profile Data Set List, then all permanent changes made in the Housekeeping panels are written to this dataset. If a USER and a SYSTEM dataset are displayed, then all permanent changes are written to the USER dataset. If a USER, an AUXILIARY, and a SYSTEM dataset are displayed, then all permanent changes are made to the USER dataset.</p>

Library Search Order

Overview

This unit describes the Library Search Order panel.

Background about the Library Search Order panel

The Library Search Order panel (KTEPHOLS) allows you to specify the order in which DBRM and package libraries will be searched for BIND, REBIND, Compare, and Validate functions. The libraries you indicate here will be searched in order from one through five.

Two variables are provided by the product: **&DBRM** (DBRM or package name) and **&SSID** (DB2 subsystem name). The SUBSTR function and concatenation operator (||) are available to form meaningful library names. For example:

```
"T" || SUBSTR(1,4,&DBRM) = TXXXX  
or  
'T' || SUBSTR(1,4,&DBRM) = TXXXX
```

Where XXXX refers to the first 4 characters of the DBRM or package name.

You can specify whether you want these changes to be permanent or temporary. Temporary changes remain in effect for the current session of !DB/EXPLAIN only.

Access

You can access the Library Search Order panel from the Housekeeping panel.

Panel

This is the Library Search Order panel.

```
----- DB/EXPLAIN DB2=D31A -----  
Cmd ==>  
          L I B R A R Y   S E A R C H   O R D E R  
PERMANENT? ==> ( Y Yes  N No )  
SEARCH ORDER ==> 0 ( Search library specified in DB2 catalog.  
                    0=Only N=Never F=First L=Last)  
  
HIGH LEVEL QUALIFIER#1 ==> "DB2"||SUBSTR(1,4,&DBRM)  
MID LEVEL QUALIFIER#1 ==> "TEST"  
LOW LEVEL QUALIFIER#1 ==> "DBRMLIB"  
HIGH LEVEL QUALIFIER#2 ==> "DB2"||SUBSTR(1,4,&DBRM)  
MID LEVEL QUALIFIER#2 ==> "SEMIPROD"  
LOW LEVEL QUALIFIER#2 ==> "DBRMLIB"  
HIGH LEVEL QUALIFIER#3 ==> "DB2"||SUBSTR(1,4,&DBRM)  
MID LEVEL QUALIFIER#3 ==> "PROD"  
LOW LEVEL QUALIFIER#3 ==> "DBRMLIB"  
HIGH LEVEL QUALIFIER#4 ==> "DB2"||SUBSTR(1,4,&DBRM)  
MID LEVEL QUALIFIER#4 ==> "BACKUP"  
LOW LEVEL QUALIFIER#4 ==> "DBRMLIB"  
  
ENTER to process   END to cancel
```


Fields

DATA FIELD	DESCRIPTION
PERMANENT	Indicates whether to update the profile data set with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).
SEARCH ORDER	Indicates library search order for PDS: F First--Search DB2LIB first, and then search specified libraries L Last--Search DB2LIB last, after searching specified libraries O Only--Search DB2LIB only; do not search specified libraries N Do Not Search--Do not search DB2LIB; search only specified libraries
HIGH LEVEL QUALIFIER#1	High-Level Qualifier for the data set which will be searched first. For example, T SUBSTR(1,4,&DBRM) = TXXXX Where XXXX refers to the first 4 characters of the DBRM or package name. Where is concatenation operator.
MID LEVEL QUALIFIER#1	Mid-Level Qualifier for the data set which will be searched first.
LOW LEVEL QUALIFIER#1	Low-Level Qualifier for the data set which will be searched first.
HIGH LEVEL QUALIFIER#2	High-Level Qualifier for the data set which will be searched second.
MID LEVEL QUALIFIER#2	Mid-Level Qualifier for the data set which will be searched second.
LOW LEVEL QUALIFIER#2	Low-Level Qualifier for the data set which will be searched second.
HIGH LEVEL QUALIFIER#3	High-Level Qualifier for the data set which will be searched third.
MID LEVEL QUALIFIER#3	Mid-Level Qualifier for the data set which will be searched third.
LOW LEVEL QUALIFIER#3	Low-Level Qualifier for the data set which will be searched third.
HIGH LEVEL QUALIFIER#4	High-Level Qualifier for the data set which will be searched fourth.
MID LEVEL QUALIFIER#4	Mid-Level Qualifier for the data set which will be searched fourth.
LOW LEVEL QUALIFIER#4	Low-Level Qualifier for the data set which will be searched fourth.

Miscellaneous Defaults

Overview

This unit describes the Miscellaneous Defaults panel.

Background about the Miscellaneous Defaults panel

The Miscellaneous Defaults panel KTEPHOMJ allows you to override the profile dataset during the current !DB/EXPLAIN session. You can specify whether you want the changes to be permanent or for the current session of !DB/EXPLAIN only.

Panel

The following illustration shows the Miscellaneous Defaults panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

      M I S C E L L A N E O U S   D E F A U L T S

PERMANENT? ==> N ( Y Yes  N No )
Character to use for BOX sides  ==> | BOX corners ==> = BOX tops ==> -
Blank line after statement?    ==> E (Y Yes  N No  E After Expanded)
OUT statistics format          ==> Y (Y SQL UPDATE Statements  N REXX Exec)
Generate Update if no statistic? ==> N (Y Yes  N No)
Use Real Catalog Tables for UPDT ==> Y (Y Yes  N No)
Consider packages same when    ==> 1 (1 / 2)
Package Collection Selection    ==> 0 (0 One  A All)
Set Exception RC for XCPT?     ==> N (Y Yes  N No)
Set Exception RC for Explain?  ==> N (Y Yes  N No)
Set Exception RC for Recommend? ==> N (Y Yes  N No)
Warning message for no EPX auth? ==> Y (Y Yes  N No)
Suppress info messages in batch? ==> N (Y Yes  N No)
Use Dataspace?                ==> Y (Y Yes  N No)
Batch Error Return Code        ==> 12 (0 - 32000)
Maintain Key ratio in Estimator ==> N (Y Yes  N No)
Log Batch BIND, REBIND and FREE? ==> N (Y Yes  N No)
ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
BATCH WARNING RETURN CODE	The return code to set whenever !DB/EXPLAIN encounters a <i>no data</i> condition during a batch execution (such as, for example, when filtering is so restrictive as to eliminate any plans or packages from consideration. The default value is 4.
BLANK LINE AFTER STATEMENTS?	Indicates whether a blank line should be displayed after a statement on the Statements panel (KTEPSTMT) Valid values are: Y Display a blank line after each statement. E Display a blank line after each expanded statement. N Do not display any blank lines.
CHARACTER TO USE FOR BOX CORNERS	Allows you to define the character to be used for box corners when generating boxes for display (for example, when displaying EXPLAIN results. These values are used as panel attributes. Any value <i>except</i> the following can be used: x'01' x'02' x'03' x'04' x'05' x'06' x'07' x'D0' (right curly brace) x'4A' (cent sign) x'7C' (at sign)
CHARACTER TO USE FOR BOX SIDES	Allows you to define the character to be used for box vertical sides when generating boxes for display (for example, when displaying EXPLAIN results. These values are used as panel attributes. Any value <i>except</i> the following can be used: x'01' x'02' x'03' x'04' x'05' x'06' x'07' x'D0' (right curly brace) x'4A' (cent sign) x'7C' (at sign)
CHARACTER TO USE FOR BOX TOPS	Allows you to define the character to be used for box horizontal tops (and bottoms) when generating boxes for display (for example, when displaying EXPLAIN results. These values are used as panel attributes. Any value <i>except</i> the following can be used: x'01' x'02' x'03' x'04' x'05' x'06' x'07' x'D0' (right curly brace) x'4A' (cent sign) x'7C' (at sign)
CONSIDER PACKAGES SAME WHEN	Allows you to define when packages should be considered the same for purposes of package collection selection. Valid values are: 1 Consider packages the same only when they have the same NAME, CONTOKEN, VERSION, and PDSNAME. 2 Consider packages the same only when they have the same NAME, CONTOKEN, and VERSION.

Miscellaneous Defaults

FIELD	DESCRIPTION
GENERATE UPDATE IF NO STATISTICS?	<p>When executing an OUT command, allows you to specify whether !DB/EXPLAIN should generate an update for columns without statistics. Valid values are:</p> <p>Y Generate update.</p> <p>N Do not generate update.</p>
LOG BATCH BIND, REBIND, AND FREE?	<p>Determines whether to log BIND, REBIND, and FREE functions issued during a batch run to the log PDS. Valid values are:</p> <p>Y Update log PDS when one of these functions occurs</p> <p>N Do not update log PDS when one of these functions occurs</p>
MAINTAIN KEY RATIO IN ESTIMATOR?	<p>When issuing a CALC command, determines whether to maintain the ratio of the FIRSTKEYCARD on the Estimator panel to the FULLKEYCARD. Valid values are:</p> <p>Y Maintain ratios.</p> <p>N Do not maintain ratios.</p>
OUT STATISTICS FORMAT	<p>Indicates whether a REXX exec or SQL statements are generated when you output statistics from Whatif (KTEPWHIF) or Estimator (KTEPESTM).</p>
PACKAGE COLLECTION SELECTION	<p>Determines the set of data that will be displayed when option Q (Collection Selection) is entered on panel KTEPKACK. Valid values are:</p> <p>O Display only the collection the package resides in.</p> <p>A Display all the collections that like packages reside in. Like packages are defined to be packages which you consider to be the same by so defining them via the option Consider packages same when.</p>
PERMANENT	<p>Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).</p>
SET EXCEPTION RC FOR EXPLAIN	<p>Indicates whether to set the batch return code for an exception if it is tripped while performing an EXPLAIN or latest EXPLAIN.</p> <p>Y Set return code</p> <p>N Do not set return code</p>
SET EXCEPTION RC FOR RECOMMEND	<p>Indicates whether to set the batch return code for an exception if it is tripped while processing a recommendation selection.</p> <p>Y Set return code</p> <p>N Do not set return code</p>
SET EXCEPTION RC FOR XCPT	<p>Indicates whether to set the batch return code for an exception if it is tripped while performing an XCPT function.</p> <p>Y Set return code</p> <p>N Do not set return code</p>
SUPPRESS INFO MESSAGES IN BATCH?	<p>Indicates whether to suppress the output of informational messages during a batch run.</p> <p>Y Suppress informational messages.</p> <p>N Do not suppress informational messages.</p>

FIELD	DESCRIPTION
USE DATASPACE?	<p>Determines whether a dataspace should be used to house items such as SQL statements, EXPLAIN results, catalog statistics, and catalog extract data.</p> <p>Y Yes, use a dataspace. (This parameter is only effective if you are running on a level of MVS that supports dataspace, and parameters are set to allow their creation and use.)</p> <p>N No, do not use a dataspace. Rather, use storage within the user's address space.</p>
USE REAL CATALOG TABLES FOR UPDT	<p>Indicates whether to execute Whatif, UPDT, and OUT commands against the actual DB2 catalog tables.</p> <p>Y Use real catalog tables.</p> <p>N Do not use real catalog tables.</p>
WARNING MESSAGE FOR NO EPX AUTH?	<p>Determines whether to issue a warning message when the user does not have EPX authority (that is, authority to update the Plan_Table extract dataset) and an XUPDT command has been explicitly or implicitly issued.</p> <p>Y Yes, issue a warning message.</p> <p>N No, do not issue a warning.</p>

Output Options Defaults

Overview

This unit describes the Output Options Defaults panel.

Background about the Output Options Defaults panel

The Output Options Defaults panel (KTEPHOOD) allows you to specify the circumstances under which the Output Options panel appears. For example, the Output Options panel could be displayed each time a BIND, REBIND, or DROP is issued (EXODS field); the JCL? command is issued (JCL); SQL is output (OUT field); or statistics are output from the Whatif or Estimator panels (STATS field). You also can change the default member names that receive the output.

You can specify whether you want the changes made on this panel to be permanent or for the current session of !DB/EXPLAIN only.

Access

You can access the Output Options Defaults panel from the Housekeeping panel.

Panel

The following illustration shows the Output Options Defaults panel.

```

----- DB/EXPLAIN DB2=D42B -----
Cmd ==>

          O U T P U T   O P T I O N S   D E F A U L T S

PERMANENT? ==> N ( Y Yes  N No )

          DISPLAY      MEMBER      MOD ONTO
          PANEL?      NAME         MEMBERS?
          -----      -
          BIND         BIND         N
          DROP        FREE         N
          EXPLAIN     EXPLAIN    N
          JCL         JCL         N
          OUT         SQL         N
          REBIND     REBIND     N
          STATS      STATS      N

          BIND COMPARE      COMPARE
          HOST VARIABLES    HOSTS

ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
DISPLAY PANEL?	<p>Indicates whether to display the Output Options panel (KTEPOUTP) when the user executes the relevant command.</p> <p>Y Yes N No</p>
MEMBER NAME	<p>The default member name for each function that can cause an output to occur. The member name can also be specified as &USER x where &USER represents the TSO userid and x represents a letter which is used as a suffix. For example, &USER S indicates that the member name is to be the TSO userid suffixed with the character S. The concatenation character, in this case , must be the same character as you have specified on the Explain/SQL Defaults Panel as the concatenation character.</p> <p>You can also append a variable &CNT to the member name. In this case, the member name must be four characters or less. For information about using &CNT, see the unit “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i></p>
MOD ONTO MEMBERS?	<p>For each function that can cause output, indicates whether to replace the selected member with the current output, or to append the output to the end of the member if the member exists.</p> <p>Y Add the command results to the end of an existing member. N Replace the specified existing member.</p> <p>For additional information on the use of MOD, see the unit “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>.</p>
PERMANENT	<p>Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).</p> <p>Y Make the changes permanent. N Make the changes for this session only.</p>

Package BIND Overrides

Overview

This unit describes the Package BIND Overrides panel.

Background about the Package BIND Overrides panel

The Package BIND Overrides panel (KTEPHOBK) allows you to make global changes to BIND parameters for more than one Package. It allows you to override attributes of an existing Package when generating a BIND or REBIND command. Fields for which no override options are shown on the panel cannot be overridden.

Access

The Package BIND Overrides panel is accessed first from the Housekeeping Panel KTEPHOUS. Filling in the Display Override Panel fields on this panel determine when this panel will be subsequently displayed. From Package BIND Overrides, you can only go to the Process Member panel (KTEPOUOP).

Panel

The following illustration shows the Package BIND Overrides panel.

```

----- DB/EXPLAIN DB2=D42B -----
Cmd ==>

          P A C K A G E   B I N D   O V E R R I D E S

PERMANENT? ==> N (Y Yes  N No)

Use Overrides for          Command? Y  Select? N  Convert? O  Compare? N
Display Override Panel for Command? Y  Select? N  Convert? N  Compare? N
Use Library Search Order for Command? Y  Select? P  Convert? P  Compare? P

Location      :          Action      :  ( R Replace A Add )
Collection    :          Flag        :  ( I / W / E / C )
Owner         :          Isolation   :  ( R RR T RS S CS U UR )
Qualifier     :          Release     :  ( C Commit D Deallocate )
Remote ENABLE : Y ( Y Yes  N No )  Validate :  ( R Run B Bind )
BIND COPY     :  ( Y Yes  N No )  Explain  :  ( Y Yes  N No )
Deferprep    :  ( Y Yes  N No )  Sqlerror :  ( N Nopackage C Continue )
Keepdynamic  :  ( Y Yes  N No )  Degree   :  ( 1 / ANY )
Reopt(VARS)  :  ( Y Yes  N No )  Currentdata :  ( Y Yes  N No )
Collection    :          Dynamicrules:  ( B / R / blank )
Specification for Convert: &DBRM

Press ENTER to process. Press END to cancel.

```

Fields

FIELD	DESCRIPTION
ACTION	<p>If non-blank, this value is the value to generate in the ACTION() clause. The non-blank value can be:</p> <p>A Generate ACTION(ADD). R Generate ACTION(REPLACE).</p>
BIND COPY	<p>Indicates whether to BIND the entity from the DBRM member or copy it from another package.</p> <p>Y Copy the entity from another package. Include the COPY() and COPYVER() clauses on the generated BIND command. N or blank BIND the entity from the DBRM member. Include the LIBRARY() and MEMBER() clauses on the generated BIND command.</p>
COLLECTION	Collection name where package is to reside.
COLLECTION SPECIFICATION	<p>Specification for the collection to be used when converting a DBRM to a package. Values can be specified as:</p> <p>A literal string with no variables and with or without delimiters. Delimiters can be single or double quotes. Use the literal provided as the collection ID (for example, coll, 'coll', or "coll").</p> <p>The variable &DBRM. Use the DBRM name as the collection ID.</p> <p>The variable &PLAN. Use the Plan name as the collection ID.</p> <p>The variable &OWNER. Use the Owner as the collection ID.</p> <p>The variable &CREATOR. Use the Creator as the collection ID.</p> <p>The variable &QUALIFIER. Use the Qualifier as the collection ID.</p> <p>The variable &USER. Use the TSO User ID as the collection ID.</p> <p>A literal string with variables or substringed variables. The literal must be enclosed in delimiters. Use the generated string as the collection ID. For example, 'T' SUBSTR(1,4&DBRM) would result in TABCD if the DBRM name were ABCDEFGH. "T" SUBSTR(1,4&OWNER) would result in TMITY if the Owner name were MITYMITE.</p> <p>The concatenation characters must be those specified on the EXPLAIN/SQL Defaults panel KTEPHOMI.</p>

FIELD	DESCRIPTION
CURRENTDATA (Current Data)	<p>If non-blank, indicates whether data currency is required for ambiguous cursors.</p> <p>Y Generate CURRENTDATA(YES); data currency is required. N Generate CURENTDATA(NO); data currency is not required.</p>
DEGREE	<p>Determines whether I/O parallelism is enabled when generating the DEGREE() clause.</p> <p>1 I/O parallelism is disabled Any I/O parallelism is set to the value set by DB2. Blank The default, 1 is used</p>
DEFERPREP	<p>Indicates whether the PREPARE for a statement referring to a remote object is deferred until the first EXECUTE, OPEN, or DESCRIBE of the statement. Valid values include:</p> <p>Y Yes Defer N No Defer</p>
DISPLAY OVERRIDE PANEL FOR COMMAND?	<p>Determines whether to display this panel when executing a BIND, BINDREP, BINDADD, BINDEXP, REBIND, or REBINDEXT command</p> <p>Y Display this panel for BIND and REBIND commands. N Do not display this panel for BIND and REBIND commands.</p>
DISPLAY OVERRIDE PANEL FOR COMPARE?	<p>Determines whether to display this panel when executing a C (BIND COMPARE) Select or the COMPARE command. Valid values for this field are:</p> <p>Y Display this panel for BIND Compare functions. N Do not display this panel for BIND Compare functions.</p>
DISPLAY OVERRIDE PANEL FOR CONVERT?	<p>Determines whether to display this panel when executing a Z (Bind Convert) Select or a BINDCNV command. Valid values are:</p> <p>Y Display this panel for the Z Select and BINDCNV command. N Do not display this panel for the Z Select and the BINDCNV command.</p>
DISPLAY OVERRIDE PANEL FOR SELECT?	<p>Determines whether to display this panel when executing a B (BIND) or R (REBIND) Select. Valid values are:</p> <p>Y Display this panel for B or R Selects. N Do not display this panel for B or R Selects.</p>
DYNAMICRULES	<p>Indicates whether run time or bind time rules will apply to a dynamic SQL statement at run time. If this field is non-blank, it specifies the value to be generated in the DYNAMICRULES() clause:</p> <p>R Generate DYNAMICRULES(RUN). B Generate DYNAMICRULES(BIND)</p>
EXPLAIN	<p>Determines whether to perform an EXPLAIN. If non-blank, this value is the value to generate in the EXPLAIN() clause. The non-blank value can be:</p> <p>Y Generate EXPLAIN(YES); perform an EXPLAIN. N Generate EXPLAIN(NO); do not EXPLAIN.</p>

FIELD	DESCRIPTION
FLAG	Indicates what levels of messages to display: I Informational, Warning, Error, and Completion messages W Warning, Error, and Completion messages E Error and Completion messages C Completion messages only
ISOLATION	Isolation level to be generated in the ISOLATION () clause: R RR Repeatable Read S CS Cursor Stability T RS Read Stability U UR Uncommitted Read blank Not specified and therefore at the level specified for the plan executing the package.
KEEPDYNAMIC	Indicates if prepared dynamic SQL should be purged at the end of a unit of work. Valid values include: Y Keep dynamic SQL past commit or rollback N Destroy dynamic SQL at commit or rollback
LOCATION	Location where Package is to be bound.
OWNER	Authorization ID of the Package owner.
QUALIFIER	Implicit qualifier for the unqualified table, view, index, and alias names in the static SQL statements of the package.
RELEASE	Indicates when resources are released: C At commit D At deallocation
REMOTE ENABLE	This value indicates whether to generate ENABLE/DISABLE lists for BIND Package commands that are not for the local DB2 subsystem. If no value is specified, the ENABLE/DISABLE list will be generated for remote packages. Y or blank Generate ENABLE/DISABLE lists for remote Packages. N Do not generate ENABLE/DISABLE lists for remote Packages.
REOPT(VARS)	Indicates whether the access path is re-determined at execution time using input variables. Valid values include: Y Determine access path at execution time for SQL statements with variable values N Determine access path at bind time
SQLERROR	Indicates the SQLERROR option on the most recent subcommand that bound or rebound the package: C Option was CONTINUE N Option was NOPACKAGE

FIELD	DESCRIPTION
USE LIBRARY SEARCH ORDER FOR COMMAND	<p>Determines whether to use the Library Search Order specified on panel KTEPHOLS for BIND/REBIND commands.</p> <p>Y Use the library search order specified on KTEPHOLS for BIND and REBIND commands.</p> <p>N Do not use the library search order specified on KTEPHOLS for BIND and REBIND commands.</p>
USE LIBRARY SEARCH ORDER FOR COMPARE?	<p>Use the library search order specified on KTEPHOLS for BIND COMPARE functions. Valid values for this field are:</p> <p>Y Use the library search order specified on KTEPHOLS for BIND Compare functions.</p> <p>N Do not use the library search order specified on KTEPHOLS for BIND Compare functions.</p> <p>P Use the library search order specified on KTEPHOLS for BIND Compare functions unless panel KTEPBIKA was displayed. If panel KTEPBIKA was displayed, use the library on that panel as the “DB2 Library.”</p>
USE LIBRARY SEARCH ORDER FOR CONVERT?	<p>Determines whether to use the Library Search Order specified on panel KTEPHOLS for BIND Convert functions. Valid values are:</p> <p>Y Use the library search order specified on KTEPHOLS for BIND Convert functions.</p> <p>N Do not use the library search order specified on KTEPHOLS for BIND Convert functions.</p> <p>P Use the library search order specified on KTEPHOLS for BIND Convert functions unless panel KTEPBIKA was displayed. If panel KTEPBIKA was displayed, use the library on that panel as the “DB2 Library.”</p>
USE LIBRARY SEARCH ORDER FOR SELECT?	<p>Determines whether to use the Library Search Order specified on the panel KTEPHOLS when executing a B (BIND) or R (REBIND) Select. Valid values are:</p> <p>Y Use the library search order specified on KTEPHOLS for BIND/REBIND Select functions.</p> <p>N Do not use the library search order specified on KTEPHOLS for BIND/REBIND Select functions.</p> <p>P Use the library search order specified on KTEPHOLS for BIND/REBIND Select functions unless panel KTEPBIKA was displayed. If panel KTEPBIKA was displayed, use the library on that panel as the “DB2 Library.”</p>
USE OVERRIDES FOR COMMAND?	<p>Determines whether to use the overrides on this panel when executing a BIND, BINDREP, BINDADD, BINDEXP, REBIND, or REBIND command</p> <p>If the command issued was BINDREP or BINDADD, the value in the ACTION field on this panel is ignored.</p> <p>If the command issued was BINDEXP or REBIND, the value in the EXPLAIN field on this panel is ignored. Valid values for the USE OVERRIDES FOR COMMAND? field are:</p> <p>Y Use the overrides on this panel for BIND and REBIND commands.</p> <p>N Do not use the overrides on this panel for BIND and REBIND commands.</p>

FIELD	DESCRIPTION
<p>USE OVERRIDES FOR COMPARE?</p>	<p>Determines whether to use the overrides on this panel when generating a B (BIND) or R (REBIND) command for the BIND Command Generation option of the C (BIND COMPARE) Select or the COMPARE command. Valid values for this field are:</p> <p>Y Use the overrides on this panel to generate BIND/REBIND commands.</p> <p>N Do not use the overrides on this panel to generate BIND/REBIND commands.</p>
<p>USE OVERRIDES FOR CONVERT?</p>	<p>Determines whether to use the overrides on this panel when executing a Z (Bind Convert) Select or a BINDCNV command. Valid values are:</p> <p>Y Use the overrides on this panel for the Z Select and BINDCNV command.</p> <p>N Do not use the overrides on this panel for the Z Select and the BINDCNV command.</p> <p>O Only the value in the field GEN PKLIST on this panel should be used for the Z Select and the BINDCNV command.</p>
<p>USE OVERRIDES FOR SELECT?</p>	<p>Determines whether to use the overrides on this panel when executing a B (BIND) or R (REBIND) Select. Valid values are:</p> <p>Y Use the overrides on this panel for B or R Selects.</p> <p>N Do not use the overrides on this panel for B or R Selects.</p>
<p>VALIDATE</p>	<p>Indicates when to handle OBJECT NOT FOUND and NOT AUTHORIZED errors that occur at bind time.</p> <p>R At RUN time</p> <p>B At BIND time</p>

Panel Filters

Overview

This unit describes the Panel Filters panel.

Background about the Panel Filters panel

The Panel Filters panel (KTEPHODF) allows you to control the default type of Boolean logic used for filtering within !DB/EXPLAIN. You can specify whether you want the changes you make here to be permanent or temporary. Temporary changes take effect for the current session of !DB/EXPLAIN only.

Access

You can access the Panel Filters panel from the Housekeeping panel.

Panel

The following illustration shows the Panel Filters panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

                P A N E L   F I L T E R S

PERMANENT? ==>   ( Y Yes  N No )

                                FILTER
                                TYPE  ( A AND  R OR  O OFF )
                                -----
COLLECTIONS                0
COSTS                       0
DBRMS                       0
EXPLAIN                     0
EXPLAIN HISTORY             0
LIBRARIES                   0
PACKAGES                    0
PLANS                       0
STATEMENTS                  0
TABLES                      0

ENTER to process  END to cancel
    
```

Fields

FIELD	DESCRIPTION
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).
FILTER TYPE	Indicates the type of Boolean logic to use for filtering for each panel listed. A And R Or O Off

Panel Formats

Overview

This unit describes the Panel Formats panel.

Background about the Panel Formats panel

Many !DB/EXPLAIN panels require several formats in order to display all required data. The Panel Formats panel (KTEPHOPF) allows you to specify the default panel format for each !DB/EXPLAIN panel that has multiple formats.

You can specify whether you want the changes you make here to be permanent or for the current session of !DB/EXPLAIN only.

Access

You can access the Panel Formats panel from the Housekeeping panel.

Panel

The following illustration shows the Panel Formats panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
                P A N E L   F O R M A T S
PERMANENT? ==>  ( Y Yes  N No )
                FORMAT #   INITIAL CMD
                -----
COLUMN DISTRIBUTION      1
COLLECTIONS              1
COMPARE EXPLAIN         1
COSTS                   1      1
DBRMS                   1      1
ESTIMATOR               1      1
EXPLAIN                 1
HISTORY                 1
LIBRARIES               1
PACKAGES                1
PLAN                   1
STATEMENTS              1      1
TABLE COLUMNS          1
VERIFICATION            1
WHATIF                  1      1
ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
FORMAT #	Indicates the default format you want to use when !DB/EXPLAIN displays the corresponding function. (An exception is that if you specify 0 for the Estimator format, the format !DB/EXPLAIN displays will be that inherited from the calling Whatif panel.) For all functions, format #1 is the default initially (see the Format menu for each panel for valid values).
INITIAL CMD	<p>Default command when initially entering panel. This command is issued automatically when you access the panel. This field is valid only for the Cost, DBRMs, Estimator, Statements, and Whatif panels.</p> <ul style="list-style-type: none"> ● Possible values for the Cost panel: <ul style="list-style-type: none"> 1 CPLN - Display plans 2 CPKG - Display packages 3 CDBR - Display DBRMs <ul style="list-style-type: none"> – If entering from Main menu, then CPLN is the default command – If entering from DBRMs, then only CDBR command is allowed – If entering from Packages, then only CPKG command is allowed ● Possible values for the DBRMs panel: <ul style="list-style-type: none"> 1 DUPS - Display DBRMs 2 NODUPS - Display DBRMs <ul style="list-style-type: none"> – DUPS is the default command ● Possible values for the Statements panel: <ul style="list-style-type: none"> 1 VERS - Display version 2 NOVERS - Do not display version ● Possible values for the Whatif panel: <ul style="list-style-type: none"> 1 NONDXS - Basic display 2 NDXS - Full display ● Possible values for the Estimator panel: <ul style="list-style-type: none"> 0 The current command (either NDXS or NONDXS) active in the calling Whatif function will be the initial command for the Estimator function. 1 NONDXS - Basic display 2 NDXS - Full display
PERMANENT INDICATOR	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).

Note: The toggle switch that you used in !DB/EXPLAIN Version 230 and below to define the format of the EXPLAIN Format 0 display has been eliminated. You now define the format of the EXPLAIN Format 0 display using the EXPLAIN Display Tuning Parameters Format0 column.

Panel Sorts

Overview

This unit describes the Panel Sorts panel.

Background about the Panel Sorts panel

The Panel Sorts panel (KTEPHOPS) allows you to specify the default sort sequence for the data displayed on each !DB/EXPLAIN panel. This feature is required because !DB/EXPLAIN provides extensive sorting of data on each panel.

You can specify whether you want the changes you make to be permanent or for the current session of !DB/EXPLAIN only.

Access

You can access the Panel Sorts panel from the Housekeeping panel.

Panel

The following illustration shows the Panel Sorts panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

                P A N E L   S O R T S

PERMANENT? ==>  ( Y Yes  N No )

                SORT          SORT
                COMMAND       TYPE (A Asc or D Desc)
                -----      -
COLLECTIONS     QCOL          A
COSTS           CNAME         A
DBRMS           DBRM          A
EXPLAIN HISTORY HNAME         A
DBRMS           DBRM          A
HOST VARIABLES  HOST          A
LIBRARIES       LLIB          A
PACKAGES        KPACK         A
PLANS           PLAN          A
PACKAGE LISTS   PLOC          A
PLAN CONNECTIONS PSYS         A
PACKAGE CONNECTIONS KSYS       A
TABLES         TTBL          A

ENTER to process  END to cancel

```

Fields

DATA FIELD	DESCRIPTION
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).
SORT COMMAND	Valid sort field for corresponding function (see the Sort Menu for each function for all valid fields).
SORT TYPE	Sort sequence indicator: A Ascending D Descending

Plan BIND Overrides

Overview

This unit describes the Plan BIND Overrides panel.

Background about the Plan BIND Overrides panel

The Plan BIND Overrides panel (KTEPHOBP) allows you to make global changes to BIND parameters for more than one plan.

Access

The Plan BIND Overrides panel appears if more than one plan has been selected to be bound on the Plans panel. It is first displayed when selected from the Housekeeping Panel KTEPHOUS. Subsequent displays appear according to the value entered on the fields Display Override Panel. From Plan BIND Overrides, the user can only go to the Process Member panel (KTEPOUOP).

Panel

The following illustration shows the Plan BIND Overrides panel.

```

----- DB/EXPLAIN  DB2=D42B -----
Cmd ==>

          P L A N   B I N D   O V E R R I D E S

PERMANENT? ==> N ( Y Yes  N No )
Use Overrides for          Command? Y  Select? N  Convert? 0  Compare? N
Display Override Panel for Command? Y  Select? N  Convert? N  Compare? N
Use Library Search Order for Command? Y  Select? Y  Convert? Y  Compare? Y

Owner      :                               Action   : ( R Replace A Add )
Qualifier  :                               Retain    : ( Y Yes  N No )
                                                Flag      : ( I / W / E / C )
Cache Size :                               Isolation : ( R RR  R RS  S CS  U UR )
Current Server:                            Acquire   : ( U Use  A Allocate)
Current Data : ( Yes  N No )                Release   : ( C Commit D Deallocate )
SQLRULES   : ( D DB2  S STD )               Validate  : ( R Run  B Bind )
Keepdynamic : ( Y Yes  N No )               Explain   : ( Y Yes  N No )
REOPT(VARS) : ( Y Yes  N No )               Deferprep : ( Y Yes  N No )
Dynamicrules : ( B / blank )               Degree    : ( 1 / ANY )
Gen PKLIST : ( N No  Y Yes  C Convert Only ) Disconnect: ( E Explicit A Automatic
                                                C Conditional )

Collection Specification:

Press ENTER to process.  Press END to cancel.

```

Fields

FIELD	DESCRIPTION
ACQUIRE	Indicates when resources are obtained: A At allocation U Use (when used)
ACTION	If non-blank, this value is the value to generate in the ACTION() clause. The non-blank value can be: A Generate ACTION(ADD). R Generate ACTION(REPLACE).
CACHE SIZE	Size measured in bytes of the cache to be acquired for the plan.
COLLECTION SPECIFICATION	Specification of the collection to be used when GEN PKLIST is Y . Values can be specified as: A literal string with no variables and with or without delimiters. Delimiters can be single or double quotes. Use the literal provided as the collection ID (for example, co11 , 'co11' , or "co11"). The variable &PACKAGE. Use the Package name as the collection ID. The variable &PLAN. Use the Plan name as the collection ID. The variable &OWNER. Use the Owner as the collection ID. The variable &CREATOR. Use the Creator as the collection ID. The variable &QUALIFIER. Use the Qualifier as the collection ID. The variable &USER. Use the TSO User ID as the collection ID. A literal string with variables or substringed variables. The literal must be enclosed in delimiters. Use the generated string as the collection ID. For example, 'T' SUBSTR(1,4&PACKAGE) would result in TABCD if the Package name were ABCDEFGH . "T" SUBSTR(1,4&OWNER) would result in TMITY if the Owner name were MITYMITE . The concatenation characters must be those specified on the EXPLAIN/SQL Defaults panel KTEPHOMI .
CURRENTDATA	Indicates the CURRENTDATA option when the Plan was bound or rebound Y Data currency is required for ambiguous cursors. N Data currency is not required for ambiguous cursors.

FIELD	DESCRIPTION
CURRENTSERVER	Location name specified with the CURRENTSERVER option when the plan was last bound. Blank if none was specified.
DEFERPREP	If non-blank, the value for the DEFER() or NODEFER() clause will be set to PREPARE. Y Generate DEFER(PREPARE). A Generate NODEFER(PREPARE).
DEGREE	Determines whether I/O parallelism is enabled: 1 I/O parallelism is disabled. Any I/O parallelism is set to the value set by DB2. Blank The default, 1 is used.
DISCONNECT	The DISCONNECT option used when the plan was bound. Its value can be: E Explicit—Disconnect must be explicitly specified. A Disconnect is automatic. C Disconnect is conditional. blank The default, E is used.
DISPLAY OVERRIDE PANEL FOR COMMAND?	Determines whether to display this panel when executing a BIND, BINDREP, BINDADD, BINDEXP, REBIND, or REBINDINDEX command Y Display this panel for BIND and REBIND commands. N Do not display this panel for BIND and REBIND commands.
DISPLAY OVERRIDE PANEL FOR COMPARE?	Determines whether to display this panel when executing a C (BIND COMPARE) Select or the COMPARE command. Valid values for this field are: Y Display this panel for BIND Compare functions. N Do not display this panel for BIND Compare functions.
DISPLAY OVERRIDE PANEL FOR CONVERT?	Determines whether to display this panel when executing a Z (Bind Convert) Select or a BINDCNV command. Valid values are: Y Display this panel for the Z Select and BINDCNV command. N Do not display this panel for the Z Select and the BINDCNV command.
DISPLAY OVERRIDE PANEL FOR SELECT?	Determines whether to display this panel when executing a B (BIND) or R (REBIND) Select. Valid values are: Y Display this panel for B or R Selects. N Do not display this panel for B or R Selects.
DYNAMICRULES	Indicates whether run time or bind time rules will apply to a dynamic SQL statement at run time. If this field is non-blank, it specifies the value to be generated in the DYNAMICRULES() clause: R Generate DYNAMICRULES(RUN). B Generate DYNAMICRULES(BIND)
EXPLAIN	Determines whether to perform an EXPLAIN. If non-blank, this is the value to generate in the EXPLAIN() clause. Y Generate EXPLAIN(YES); perform an EXPLAIN. N Generat EXPLAIN(NO); do not perform an EXPLAIN.

FIELD	DESCRIPTION
FLAG	Indicates what levels of messages to display: I Informational, Warning, Error, and Completion messages W Warning, Error, and Completion messages E Error and Completion messages C Completion messages only
GEN PKLIST	Determines whether a PKLIST(collid .*) should be generated. Valid values are: N Retain the original PKLIST for BIND/REBIND functions. Y Indicates that a PKLIST(collid .*) should be generated rather than individually including each package. The collid would be the value specified for the Collection Specification for Convert on the Package Bind Overrides (KTEPHOBK) panel if the command issued was Bind Convert (BINDCNV). If the command issued was not BINDCNV, the collid would be the value specified for Collection Specification on this panel (KTEPHOBP). C Indicates, for Bind Convert (BINDCNV) commands only, that a PKLIST(collid .*) should be generated rather than individually including each package. The collid would be the value specified for the Collection Specification for Convert on the Package Bind Overrides (KTEPHOBK) panel.
ISOLATION	Isolation level to be generated in the ISOLATION() clause: R RR (Repeatable Read) S CS (Cursor Stability) T RS (Read Stability) U UR (Uncommitted Read)
KEEPDYNAMIC	Indicates if prepared dynamic SQL should be purged at the end of a unit of work. Valid values include: Y Keep dynamic SQL past commit or rollback N Destroy dynamic SQL at commit or rollback
OWNER	Authorization ID of the Plan owner.
QUALIFIER	Implicit qualifier for the unqualified table, view, index, and alias names in the static SQL statements of the plan.
RELEASE	Indicates when resources are released: C At commit D At deallocation
REMOTE ENABLE	This value indicates whether to generate ENABLE/DISABLE lists for BIND Plan commands that are not for the local system. Y or blank Generate ENABLE/DISABLE lists for remote Plans. N Do not generate ENABLE/DISABLE lists for remote Plans.
REOPT(VARS)	Indicates whether the access path is re-determined at execution time using input variables. Valid values include: Y Determines access path at execution time for SQL statements with variable values N Determines access path at bind time

FIELD	DESCRIPTION
RETAIN	Retain authority list granted to plan? Y Yes N No
SQLRULES	The SQLRULES option used when the Plan was bound. Its value can be: D Use DB2 SQL rules. S Use standard SQL rules. blank The default, D is used.
USE LIBRARY SEARCH ORDER FOR COMMAND	Determines whether to use the Library Search Order specified on panel KTEPHOLS for BIND/REBIND commands. Y Use the library search order specified on KTEPHOLS for BIND and REBIND commands. N Do not use the library search order specified on KTEPHOLS for BIND and REBIND commands.
USE LIBRARY SEARCH ORDER FOR COMPARE?	Determines whether to use the Library Search Order specified on panel KTEPHOLS for BIND Compare functions. Valid values for this field are: Y Use the library search order specified on KTEPHOLS for BIND Compare functions. N Do not use the library search order specified on KTEPHOLS for BIND Compare functions.
USE LIBRARY SEARCH ORDER FOR CONVERT?	Determines whether to use the Library Search Order specified on panel KTEPHOLS for BIND Convert functions. Valid values are: Y Use the library search order specified on KTEPHOLS for BIND Convert functions. N Do not use the library search order specified on KTEPHOLS for BIND Convert functions.
USE LIBRARY SEARCH ORDER FOR SELECT?	Determines whether to use the Library Search Order specified on the panel KTEPHOLS when executing a B (BIND) or R (REBIND) Select. Valid values are: Y Use the library search order specified on KTEPHOLS for BIND/REBIND Select functions. N Do not use the library search order specified on KTEPHOLS for BIND/REBIND Select functions.
USE OVERRIDES FOR COMMAND?	Determines whether to use the overrides on this panel when executing a BIND, BINDREP, BINDADD, BINDEXP, REBIND, or REBINDEXT command If the command issued was BINDREP or BINDADD, the value in the ACTION field on this panel is ignored. If the command issued was BINDEXP or REBINDEXT, the value in the EXPLAIN field on this panel is ignored. Valid values for the USE OVERRIDES FOR COMMAND? field are: Y Use the overrides on this panel for BIND and REBIND commands. N Do not use the overrides on this panel for BIND and REBIND commands.

FIELD	DESCRIPTION
USE OVERRIDES FOR COMPARE?	<p>Determines whether to use the overrides on this panel when generating a B (BIND) or R (REBIND) command for the BIND Command Generation option of the C (BIND COMPARE) Select or the COMPARE command. Valid values for this field are:</p> <p>Y Use the overrides on this panel to generate BIND/REBIND commands.</p> <p>N Do not use the overrides on this panel to generate BIND/REBIND commands.</p>
USE OVERRIDES FOR CONVERT?	<p>Determines whether to use the overrides on this panel when executing a Z (Bind Convert) Select or a BINDCNV command. Valid values are:</p> <p>Y Use the overrides on this panel for the Z Select and BINDCNV command.</p> <p>N Do not use the overrides on this panel for the Z Select and the BINDCNV command.</p> <p>O Only the value in the field GEN PKLIST on this panel should be used for the Z Select and the BINDCNV command.</p>
USE OVERRIDES FOR SELECT?	<p>Determines whether to use the overrides on this panel when executing a B (BIND) or R (REBIND) Select. Valid values are:</p> <p>Y Use the overrides on this panel for B or R Selects.</p> <p>N Do not use the overrides on this panel for B or R Selects.</p>
VALIDATE	<p>Indicates when to handle OBJECT NOT FOUND and NOT AUTHORIZED errors that occur at bind time.</p> <p>R Validate at RUN time</p> <p>B Validate at BIND time</p>

Recommendations Menu

Overview

This unit describes the Recommendations Menu.

Background about the Recommendations Menu

The Recommendations Menu (KTEPRECM) permits you to select which of the recommendations selection panels you want to use.

Access

You can access the Recommendations Menu from the Housekeeping panel.

Panel

This is the Recommendations Menu panel.

```

----- DB/EXPLAIN  DB2=D31A -----
                                !DB/EXPLAIN RECOMMENDATIONS MENU
Option ==>
 0 - Recommendations Display Options
 1 - Bind      Recommendations  B00001 - B00009
 2 - Object   Recommendations  000000 - 000012
 3 - Object   Recommendations  000013 - 000025
 4 - Object   Recommendations  000026 - 000036
 5 - Statement Recommendations  S00000 - S00009
 6 - Statement Recommendations  S00010 - S00019
 7 - Statement Recommendations  S00020 - S00027
 8 - Statement Recommendations  S00028 - S00042  Reserved for future release
 9 - Statement Recommendations  S00043 - S00053
 A - Exception Recommendations  X00001 - X00012

ENTER to process  END to cancel
    
```

Fields

FIELD	DESCRIPTION
OPTION	Permits you to select a value from 0-9 and A. The selection takes you to the associated Recommendations panel.

Recommendations Panel 0

Overview

This unit describes Recommendations Panel 0.

Background about Recommendations Panel 0

Recommendations Panel 0 (KTEPHOR0) allows you to specify whether to display BIND type, object type, SQL statement type, and exception type recommendations, as well as when to display partitioned recommendations.

Access

You can access Recommendations Panel 0 from the Housekeeping panel.

Panel

The following illustration shows Recommendations panel 0.

```

----- DB/EXPLAIN  DB2=D31A -----
Cmd ==>
          R E C O M M E N D A T I O N S   P A N E L   0

PERMANENT? ==> N ( Y Yes  N No )

Display BIND type Recommendations          ==> Y (Y Yes  N No)
Display Object type Recommendations        ==> Y (Y Yes  N No)
Display SQL Statement type Recommendations ==> Y (Y Yes  N No)
Display Exception type Recommendations     ==> Y (Y Yes  N No)

When to display partitioned Recommendations ==> 0 (0 One  A Aggregate)

ENTER to process  END to cancel  NEXT for next panel

```

Fields

FIELD	DESCRIPTION
DISPLAY BIND TYPE RECOMMENDATIONS	<p>Indicates whether to display BIND type recommendations (recommendations beginning with B).</p> <p>Y Display applicable BIND type recommendations. N Do not display BIND type recommendations.</p>
DISPLAY EXCEPTION TYPE RECOMMENDATIONS	<p>Indicates whether to display EXCEPTION type recommendations (recommendations beginning with X).</p> <p>Y Display applicable EXCEPTION type recommendations. N Do not display EXCEPTION type recommendations.</p>
DISPLAY OBJECT TYPE RECOMMENDATIONS	<p>Indicates whether to display OBJECT type recommendations (recommendations beginning with O).</p> <p>Y Display applicable OBJECT type recommendations. N Do not display OBJECT type recommendations.</p>
DISPLAY SQL STATEMENT TYPE RECOMMENDATIONS	<p>Indicates whether to display SQL statement type recommendations (recommendations beginning with S).</p> <p>Y Display applicable SQL statement type recommendations. N Do not display SQL statement type recommendations.</p>
PERMANENT	<p>Indicates whether to update the profile dataset with these changes permanently or update for current !DB/EXPLAIN session only.</p> <p>Y Make these changes permanent. N Do not make these changes permanent.</p>
WHEN TO DISPLAY PARTITIONED RECOMMENDATIONS	<p>Indicates when to display recommendations that are based on a field whose source is SYSINDEXPART or SYSTABLEPART.</p> <p>O Display the recommendation when any single partition of the entity meets or exceeds the threshold specified in Housekeeping. A Display the recommendation only when the aggregate field meets or exceeds the threshold specified in Housekeeping. For example, if A were specified, recommendation 0000007 would be displayed only if the sum of FAROFFPOS for all partitions divided by the number of partitions meets or exceeds the specified value.</p>

Recommendations Panel 1

Overview

This unit describes Recommendations Panel 1

Background about Recommendations Panel 1

Recommendations Panel 1 (KTEPHOR1) displays BIND type recommendations and allows you to control the amount of text you see for each recommendation listed, whether to treat the recommendation as an exception, and the return code to set if the recommendation is tripped during a batch session. The recommendations listed here appear:

- On the EXPLAIN panel in format 1 and format 7
- On the Statements panel when you select a statement using the R select
- On the Exceptions panel when you specify Y for the recommendation in the XCPT column of the Recommendations panel

You can specify one of four levels of recommendation text: none, terse, verbose, and more than verbose. You also can specify the threshold value for recommendations which appear only when a threshold is met or exceeded.

Access

You can access Recommendations Panel 1 from the Housekeeping panel.

Panel

The following illustration shows Recommendations panel 1.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
          R E C O M M E N D A T I O N S   P A N E L   1

PERMANENT? ==> N ( Y Yes  N No )

                                     Level XCPT RC
                                     -----
B00001 -ISOLATION(RR)                V    Y    0
B00002 -ACQUIRE(ALLOCATE) RELEASE(DEALLOCATE)  V    Y    0
B00003 -ACQUIRE(USE) RELEASE(DEALLOCATE)      V    Y    0
B00004 -VALIDATE(RUN)                   V    Y    0
B00005 -Enable/Disable list entries >=      20  V    Y    0
B00006 -Cachesize >= 1280                V    Y    0
B00007 -Plan / Package Invalid or Inoperative V    Y    0
B00008 -# DBRMs bound into Plan >=         50  V    Y    0
B00009 -Plan Size >= 10 times EDMPOOL size  V    Y    0

ENTER to process  END to cancel  NEXT for next panel  PREV for previous panel
    
```

Fields

FIELD	DESCRIPTION
BATCH RC	Indicates the return code to set if the recommendation is tripped while in a batch session. The fields SET EXCEPTION RC FOR XCPT?, SET EXCEPTION RC FOR EXPLAIN?, AND SET EXCEPTION RC FOR RECOMMEND? on the Miscellaneous Defaults panel KTEPHOMJ determine the cases in which the batch return code is actually set.
LEVEL	Indicates the level of text for each recommendation. N None T Terse V Verbose M More than verbose Threshold fields and values appear to the right of the recommendation level for those recommendations which have thresholds.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily). Y Make the changes permanent. N Do not make the changes permanent.
XCPT	Indicates whether to treat this recommendation is an exception. Y Treat this recommendation as an exception. N Do not treat this recommendation as an exception.

Recommendations Panel 2

Overview

This unit describes Recommendations Panel 2.

Background about Recommendations Panel 2

Recommendations Panel 2 (KTEPHOR2) displays object type recommendations and allows you to control the amount of text you see for each recommendation listed, whether to treat the recommendation as an exception, and the return code to set if the recommendation is tripped during a batch session. The recommendations listed here appear:

- On the EXPLAIN panel in format 1 and format 7
- On the Statements panel when you select a statement using the R select
- On the Exceptions panel when you specify Y for the recommendation in the XCPT column of the Recommendations panel

You can specify one of four levels of recommendation text: none, terse, verbose and more than verbose. You also can specify the threshold value for recommendations which appear only when a threshold is met or exceeded.

Access

You can access the Recommendations Panel 2 from the Housekeeping panel.

Panel

The following illustration shows Recommendations panel 2.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
          R E C O M M E N D A T I O N S   P A N E L   2
PERMANENT? ==> N ( Y Yes  N No )
                                     Level XCPT RC
-----
000000 -Runstats not run (tablespace / table)      V   Y   0
000001 -Runstats not run (index)                   V   Y   0
000002 -LOCKSIZE ANY                               V   Y   0
000003 -LOCKSIZE TABLESPACE / TABLE              V   Y   0
000004 -LOCKSIZE ANY / PAGE for read only          V   Y   0
000005 -Varying length columns in index key        V   Y   0
000006 -Varying length columns not at row end      V   Y   0
000007 -FAROFFPOS / CARD % >= 10                   V   Y   0
000008 -FAROFFPOS >=                               200   V   Y   0
000009 -PERCDROP >= 10                              V   Y   0
000010 -(NEARINDREF+FARINDEF)/CARD % >= 10         V   Y   0
000011 -LEAFDIST >=                               200   V   Y   0
000012 -NLEVELS >=                                  4     V   Y   0
ENTER to process  END to cancel  NEXT for next panel  PREV for previous panel
    
```

Fields

FIELD	DESCRIPTION
BATCH RC	Indicates the return code to set if the recommendation is tripped while in a batch session. The fields SET EXCEPTION RC FOR XCPT?, SET EXCEPTION RC FOR EXPLAIN?, AND SET EXCEPTION RC FOR RECOMMEND? on the Miscellaneous Defaults panel KTEPHOMJ determine the cases in which the batch return code is actually set.
LEVEL	Indicates the level of text for each recommendation. N None T Terse V Verbose M More than verbose Threshold fields and values appear to the right of the recommendation level for those recommendations which have thresholds.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily). Y Make the changes permanent. N Do not make the changes permanent.
XCPT	Indicates whether this recommendation is an exception. Y Treat this recommendation as an exception. N Do not treat this recommendation as an exception.

Recommendations Panel 3

Overview

This unit describes Recommendations Panel 3.

Background about Recommendations Panel 3

Recommendations Panel 3 (KTEPHOR3) displays object type recommendations and allows you to control the amount of text you see for each recommendation listed, whether to treat the recommendation as an exception, and the return code to set if the recommendation is tripped during a batch session. The recommendations listed here appear:

- On the EXPLAIN panel in format 1 and format 7
- On the Statements panel when you select a statement using the R select
- On the Exceptions panel when you specify Y for the recommendation in the XCPT column of the Recommendations panel

You can specify one of four levels of recommendation text: none, terse, verbose and more than verbose. You also can specify the threshold value for recommendations which appear only when a threshold is met or exceeded.

Access

You can access Recommendations Panel 3 from the Housekeeping panel.

Panel

The following illustration shows Recommendations panel 3.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
          R E C O M M E N D A T I O N S   P A N E L   3
PERMANENT? ==> N ( Y Yes  N No )

                                     Level XCPT RC
                                     -----
000013 -# Columns in Index >= 5           V   Y   0
000014 -Length of Columns in Index >= 30  V   Y   0
000015 -Subpages for index on R/O Table:  1 to 1  V   Y   0
000016 -Subpages for index on non R/O Table: 2 to 4  V   Y   0
000017 -# pages in R/O table before index
        NPAGES >= 15                       V   Y   0
000018 -# pages in non R/O table before index
        NPAGES >= 30                       V   Y   0
000019 -# indexes on Read-Only table >= 5       V   Y   0
000020 -# indexes on Non-Read-Only table >= 3   V   Y   0
000021 -No clustering index defined            V   Y   0
000022 -No index used when indexes exist (SELECTs) V   Y   0
000023 -% distinct values for indexed column < 30 V   Y   0
000024 -% of unique values for index < 30      V   Y   0
000025 -Unique Index not defined as UNIQUE     V   Y   0
ENTER to process  END to cancel  NEXT for next panel  PREV for previous panel
    
```

Fields

FIELD	DESCRIPTION
BATCH RC	Indicates the return code to set if the recommendation is tripped while in a batch session. The fields SET EXCEPTION RC FOR XCPT?, SET EXCEPTION RC FOR EXPLAIN?, AND SET EXCEPTION RC FOR RECOMMEND? on the Miscellaneous Defaults panel KTEPHOMJ determine the cases in which the batch return code is actually set.
LEVEL	Indicates the level of text for each recommendation. N None T Terse V Verbose M More than verbose Threshold fields and values appear to the right of the recommendation level for those recommendations which have thresholds.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily). Y Make the changes permanent. N Do not make the changes permanent.
XCPT	Indicates whether this recommendation is an exception. Y Treat this recommendation as an exception. N Do not treat this recommendation as an exception.

Recommendations Panel 4

Overview

This unit describes Recommendations Panel 4.

Background about Recommendations Panel 4

Recommendations Panel 4 (KTEPHOR4) displays object type recommendations and allows you to control the amount of text you see for each recommendation listed, whether to treat the recommendation as an exception, and the return code to set if the recommendation is tripped during a batch session. The recommendations listed here appear:

- On the EXPLAIN panel in format 1 and format 7
- On the Statements panel when you select a statement using the R select
- On the Exceptions panel when you specify Y for the recommendation in the XCPT column of the Recommendations panel

You can specify one of four levels of recommendation text: none, terse, verbose, and more than verbose. You also can specify the threshold value for recommendations which appear only when a threshold is met or exceeded.

Access

You may access Recommendations Panel 4 from the Housekeeping panel.

Panel

The following illustration shows Recommendations panel 4.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
          R E C O M M E N D A T I O N S   P A N E L   4

PERMANENT? ==> N ( Y Yes  N No )

                                     Level XCPT RC
                                     -----
000026 -FREEPAGE <> 0 or PCTFREE <> 0 on R/O Index          V   Y   0
000027 -FREEPAGE <> 0 or PCTFREE <> 0 on R/O Table          V   Y   0
000028 -# Pages in non-partitioned tspace >= 5000          V   Y   0
000029 -# Pages in partition >= 5000                       V   Y   0
000030 -# Columns in table >= 50                           V   Y   0
000031 -RECLength of table >= 1000                         V   Y   0
000032 -Wasted space in table page % >= 15                 V   Y   0
000033 -(100-PAGESAVE) >= 25                               V   Y   0
000034 -Table (100-PCTROWCOMP) >= 25                       V   Y   0
000035 -Tablespace (100-PCTROWCOMP) >= 25                  V   Y   0
000036 -No index used when indexes exist (Non-SELECTs)     V   Y   0

ENTER to process  END to cancel  NEXT for next panel  PREV for previous panel
    
```

Fields

FIELD	DESCRIPTION
BATCH RC	Indicates the return code to set if the recommendation is tripped while in a batch session. The fields SET EXCEPTION RC FOR XCPT?, SET EXCEPTION RC FOR EXPLAIN?, AND SET EXCEPTION RC FOR RECOMMEND? on the Miscellaneous Defaults panel KTEPHOMJ determine the cases in which the batch return code is actually set.
LEVEL	Indicates the level of text for each recommendation. N None T Terse V Verbose M More than verbose Threshold fields and values appear to the right of the recommendation level for those recommendations which have thresholds.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily). Y Make the changes permanent. N Do not make the changes permanent.
XCPT	Indicates whether this recommendation is an exception. Y Treat this recommendation as an exception. N Do not treat this recommendation as an exception.

Recommendations Panel 5

Overview

This unit describes Recommendations Panel 5.

Background about Recommendations Panel 5

Recommendations Panel 5 (KTEPHOR5) displays SQL statement type recommendations and allows you to control the amount of text you see for each recommendation listed, whether to treat the recommendation as an exception, and the return code to set if the recommendation is tripped during a batch session. The recommendations listed here appear:

- On the EXPLAIN panel in format 1 and format 7
- On the Statements panel when you select a statement using the R select
- On the Exceptions panel when you specify Y for the recommendation in the XCPT column of the Recommendations panel

You can specify one of four levels of recommendation text: none, terse, verbose, and more than verbose. You also may specify the threshold value for recommendations which appear only when a threshold is met or exceeded.

Access

You may access Recommendations Panel 5 from the Housekeeping panel.

Panel

The following illustrations show Recommendations panel 5.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
          R E C O M M E N D A T I O N S   P A N E L   5
PERMANENT? ==> N ( Y Yes  N No )
                                     Level XCPT RC
-----
S00000 -Tablespace Scan NPAGES > =      1000          V   Y   0
S00001 -Mass Delete (nonseg ts) Rows >=    100          V   Y   0
S00002 -Segsize for Sequential Prefetch          V   Y   0
S00003 -View Materialization                  V   Y   0
S00004 -OPTIMIZE FOR n ROWS may be ignored      V   Y   0
S00005 -Referential Constraints                 V   Y   0
S00006 -Host var - column mismatch (char)       V   Y   0
S00007 -Host var - column mismatch (numeric / data type) V   Y   0
S00008 -SELECT *                               V   Y   0
S00009 -Sort for uniqueness                     V   Y   0

ENTER to process  END to cancel  NEXT for next panel  PREV for previous panel
    
```

Fields

FIELD	DESCRIPTION
BATCH RC	Indicates the return code to set if the recommendation is tripped while in a batch session. The fields SET EXCEPTION RC FOR XCPT?, SET EXCEPTION RC FOR EXPLAIN?, AND SET EXCEPTION RC FOR RECOMMEND? on the Miscellaneous Defaults panel KTEPHOMJ determine the cases in which the batch return code is actually set.
LEVEL	Indicates the level of text for each recommendation. N None T Terse V Verbose M More than verbose Threshold fields and values appear to the right of the recommendation level for those recommendations which have thresholds.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily). Y Make the changes permanent. N Do not make the changes permanent.
XCPT	Indicates whether this recommendation is an exception. Y Treat this recommendation as an exception. N Do not treat this recommendation as an exception.

Recommendations Panel 6

Overview

This unit describes Recommendations Panel 6.

Background about Recommendations Panel 6

Recommendations Panel 6 (KTEPHOR6) displays SQL statement type recommendations and allows you to control the amount of text you see for each recommendation listed, whether to treat the recommendation as an exception, and the return code to set if the recommendation is tripped during a batch session. The recommendations listed here appear:

- On the EXPLAIN panel in format 1 and format 7
- On the Statements panel when you select a statement using the R select
- On the Exceptions panel when you specify Y for the recommendation in the XCPT column of the Recommendations panel

You can specify one of four levels of recommendation text: none, terse, verbose, and more than verbose. You also may specify the threshold value for recommendations which appear only when a threshold is met or exceeded.

Access

You may access Recommendations Panel 6 from the Housekeeping panel.

Panel

The following illustration shows Recommendations panel 6.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
          R E C O M M E N D A T I O N S   P A N E L   6
PERMANENT? ==> N ( Y Yes  N No )

                                     Level XCPT RC
-----
S00010 -Nested Loop inner table, tspace scan          V   Y   0
        NPAGES >=          100
S00011 -Nested Loop join composite table sort        V   Y   0
S00012 -Merge Scan join inner table sort            V   Y   0
        Rows >=          500
S00013 -Merge Scan join outer table sort            V   Y   0
        Rows >=          500
S00014 -Sort for ordering   Rows >=          500        V   Y   0
S00015 -Multiple index access Rows >=          1000        V   Y   0
S00016 -COLUMN IN (subquery)                        V   Y   0
S00017 -COLUMN NOT IN (subquery)                    V   Y   0
S00018 -COLUMN = ALL (subquery) (or ^= ALL)         V   Y   0
S00019 -COLUMN = ANY (subquery) (or ^= ANY)         V   Y   0

ENTER to process  END to cancel  NEXT for next panel  PREV for previous panel
    
```

Fields

FIELD	DESCRIPTION
BATCH RC	Indicates the return code to set if the recommendation is tripped while in a batch session. The fields SET EXCEPTION RC FOR XCPT?, SET EXCEPTION RC FOR EXPLAIN?, AND SET EXCEPTION RC FOR RECOMMEND? on the Miscellaneous Defaults panel KTEPHOMJ determine the cases in which the batch return code is actually set.
LEVEL	Indicates the level of text for each recommendation. N None T Terse V Verbose M More than verbose Threshold fields and values appear to the right of the recommendation level for those recommendations which have thresholds.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily). Y Make the changes permanent. N Do not make the changes permanent.
XCPT	Indicates whether this recommendation is an exception. Y Treat this recommendation as an exception. N Do not treat this recommendation as an exception.

Recommendations Panel 7

Overview

This unit describes Recommendations Panel 7.

Background about Recommendations Panel 7

Recommendations Panel 7 (KTEPHOR7) displays SQL statement type recommendations and allows you to control the amount of text you see for each recommendation listed, whether to treat the recommendation as an exception, and the return code to set if the recommendation is tripped during a batch session. The recommendations listed here appear:

- On the EXPLAIN panel in format 1 and format 7
- On the Statements panel when you select a statement using the R select
- On the Exceptions panel when you specify Y for the recommendation in the XCPT column of the Recommendations panel

You can specify one of three levels of recommendation text: none, terse, verbose, and more than verbose. You also may specify the threshold value for recommendations which appear only when a threshold is met or exceeded.

Access

You may access Recommendations Panel 7 from the Housekeeping panel.

Panel

The following illustration shows Recommendations panel 7.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
          R E C O M M E N D A T I O N S   P A N E L   7
PERMANENT? ==> N ( Y Yes  N No )
                                     Level XCPT RC
-----
S00020 -COLUMN LIKE '%char'      (or '_char')      V    Y    0
S00021 -COLUMN NOT LIKE 'char'    V    Y    0
S00022 -COLUMN NOT IN (list)      V    Y    0
S00023 -COLUMN IS NOT NULL        V    Y    0
S00024 -COLUMN NOT BETWEEN val1 and val2          V    Y    0
S00025 -COLUMN ^= value           V    Y    0
S00026 -COLUMN LIKE host variable V    Y    0
S00027 -COLUMN = expression       V    Y    0

ENTER to process  END to cancel  NEXT for next panel  PREV for previous panel
    
```

Fields

FIELD	DESCRIPTION
BATCH RC	Indicates the return code to set if the recommendation is tripped while in a batch session. The fields SET EXCEPTION RC FOR XCPT?, SET EXCEPTION RC FOR EXPLAIN?, AND SET EXCEPTION RC FOR RECOMMEND? on the Miscellaneous Defaults panel KTEPHOMJ determine the cases in which the batch return code is actually set.
LEVEL	Indicates the level of text for each recommendation. N None T Terse V Verbose M More than verbose Threshold fields and values appear to the right of the recommendation level for those recommendations which have thresholds.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily). Y Make the changes permanent. N Do not make the changes permanent.
XCPT	Indicates whether this recommendation is an exception. Y Treat this recommendation as an exception. N Do not treat this recommendation as an exception.

Recommendations Panel 8

Overview

This unit describes Recommendations Panel 8.

Background about Recommendations Panel 8

Recommendations Panel 8 (KTEPHOR8) displays SQL statement type recommendations and allows you to control the amount of text you see for each recommendation listed, whether to treat the recommendation as an exception, and the return code to set if the recommendation is tripped during a batch session. The recommendations listed here appear:

- On the EXPLAIN panel in format 1 and format 7
- On the Statements panel when you select a statement using the R select
- On the Exceptions panel when you specify Y for the recommendation in the XCPT column of the Recommendations panel

You can specify one of three levels of recommendation text: none, terse, verbose, and more than verbose. You also may specify the threshold value for recommendations which appear only when a threshold is met or exceeded.

Access

You may access Recommendations Panel 8 from the Housekeeping panel.

Panel

The following illustration shows Recommendations panel 8.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
          R E C O M M E N D A T I O N S   P A N E L   8
PERMANENT? ==> N ( Y Yes  N No )

                                     Level XCPT RC
                                     -----
S00043 -CREATE SQL statement          V    Y    0
S00044 -DROP   SQL statement          V    Y    0
S00045 -ALTER  SQL statement          V    Y    0
S00046 -GRANT  SQL statement          V    Y    0
S00047 -REVOKE SQL statement          V    Y    0
S00048 -LOCK   SQL statement          V    Y    0
S00049 -COST >=      5000             V    Y    0
S00050 -Nonmatching Index Scan NLEAF >=      500 V    Y    0
S00051 -DISCONNECT(AUTO) for CURSOR with HOLD V    Y    0
S00052 -Statement Isolation Less Restrictive V    Y    0
S00053 -Statement Isolation More Restrictive  V    Y    0

ENTER to process  END to cancel  NEXT for next panel  PREV for previous panel
    
```

Fields

FIELD	DESCRIPTION
BATCH RC	Indicates the return code to set if the recommendation is tripped while in a batch session. The fields SET EXCEPTION RC FOR XCPT?, SET EXCEPTION RC FOR EXPLAIN?, AND SET EXCEPTION RC FOR RECOMMEND? on the Miscellaneous Defaults panel KTEPHOMJ determine the cases in which the batch return code is actually set.
LEVEL	Indicates the level of text for each recommendation. N None T Terse V Verbose M More than verbose Threshold fields and values appear to the right of the recommendation level for those recommendations which have thresholds.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily). Y Make the changes permanent. N Do not make the changes permanent.
XCPT	Indicates whether this recommendation is an exception. Y Treat this recommendation as an exception. N Do not treat this recommendation as an exception.

Recommendations Panel 9

Overview

This unit describes Recommendations Panel 9.

Background about Recommendations Panel 9

The Recommendations Panel 9 (KTEPHOXC) displays exception type recommendations and allows you to control the amount of text you see for each recommendation listed, whether to treat the recommendation as an exception, and the return code to set if the recommendation is tripped during a batch session. The recommendations listed here appear:

- On the EXPLAIN panel in format 1 and format 7
- On the Statements panel when you select a statement using the R select
- On the Exceptions panel when you specify Y for the recommendation in the XCPT column of the Recommendations panel

You may specify one of three levels of recommendation text: none, terse, verbose, and more than verbose. You also may specify the threshold value for recommendations which appear only when a threshold is met or exceeded.

Access

You can access Recommendations Panel 9 from the Housekeeping panel. (Recommendations Panel 9 was formerly the Set Exceptions Housekeeping Panel).

Panel

The following illustration shows Recommendations panel 9.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

          R E C O M M E N D A T I O N S   P A N E L   9

PERMANENT? ==> N ( Y Yes  N No )

                                     Level XCPT  RC
-----
X00001 SQL Error                    T      Y    0
X00002 Hybrid Join                  T      Y    0
X00003 List Prefetch                T      Y    0
X00004 Multiple Index Intersection  T      Y    0
X00005 Multiple Index Union        T      Y    0
X00006 Multiple Index Scan         T      Y    0
X00007 Merge Scan Join              T      Y    0
X00008 Nested Loop Join             T      Y    0
X00009 Sequential Prefetch         T      Y    0
X00010 Sort for Group By            T      Y    0
X00011 Sort for Join                T      Y    0
X00012 IX / X Locks                 T      Y    0

ENTER to process  END to cancel  PREV for previous panel
    
```

Fields

FIELD	DESCRIPTION
BATCH RC	Indicates the return code to set if the recommendation is tripped while in a batch session. The fields SET EXCEPTION RC FOR XCPT?, SET EXCEPTION RC FOR EXPLAIN?, AND SET EXCEPTION RC FOR RECOMMEND? on the Miscellaneous Defaults panel KTEPHOMJ determine the cases in which the batch return code is actually set.
LEVEL	Indicates the level of text for each recommendation. N None T Terse V Verbose M More than verbose Threshold fields and values appear to the right of the recommendation level for those recommendations which have thresholds.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily). Y Make the changes permanent. N Do not make the changes permanent.

Recommendations Panel 9

FIELD	DESCRIPTION
XCPT	Indicates whether this recommendation is an exception. Y Treat this recommendation as an exception. N Do not treat this recommendation as an exception.

Selection Masking

Overview

This unit describes the Selection Masking panel.

Background about the Selection Masking panel

The Selection Masking panel (KTEPHOMK) allows you to change the default masks. All the changes you make on this panel can be permanently saved in the profile dataset if you so specify and are authorized to do so. However, the changes you make will not take effect until you refresh !DB/EXPLAIN or rebuild your object list. If you have multiple open sessions, you must ensure that all sessions are closed prior to performing the refresh.

Access

You can access the Selection Masking panel from the Housekeeping panel.

Panel

The following illustrates the Selection Masking panel.

```

Cmd ==>

                S E L E C T I O N   M A S K I N G
PERMANENT? ==> N ( Y Yes  N No )      Display Mask Panel? N
And/Or          Operator Mask1           Mask2           Parens
(   PLAN
AND  BINDSTAMP
AND  QUALIFIER
AND  OWNER
AND  CREATOR                                     )
(   PACKAGE
AND  COLLECTION
AND  VERSION

AND  BINDSTAMP
AND  QUALIFIER
AND  OWNER
AND  CREATOR                                     )
(   LOCATION
AND  COLLECTION
AND  PACKAGE                                     )
Mask out any packages not in the specified set of PLANs? Y   (Y/N)
ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
AND/OR	Specifies if the conditions of the masking parameters as AND or OR . Note: The AND/OR field must be used in conjunction with the PARENS field. AND And OR Or
DISPLAY MASK PANEL?	Specifies whether the current Selection Masking panel is to be displayed when requested off the Primary Menu panel (KTEPMENU). Y Yes N No
MASK OUT ANY PACKAGES NOT IN THE SPECIFIED SET OF PLANS?	Specifies whether only packages that are bound into the set of plans specified are displayed. Y Package masks are applied to those packages which are further filtered by eliminating any packages not bound into the set of plans the user has specified. N The package masks are applied to all packages.
OPERATOR	Indicates mask operator: <ul style="list-style-type: none"> ● LIKE ● BETWEEN ● = (Equal to) ● > (Greater than) ● >= (Greater than or Equal) ● < (Less than) ● <= (Less than or Equal) ● > (Greater than)
PACKAGE BINDSTAMP MASK 1	Package Bind Timestamp or mask name for comparison. <ul style="list-style-type: none"> ● The “LIKE” operator is not valid for BINDSTAMP fields. ● Timestamp fields can be specified as YYYYMMDDHHMMSS. ● Timestamp fields can also be specified as NOW +/- NNNN or NOW, where NOW represents the present time. ● The timestamp default is NOW-3 (Anything which has occurred in the last three days).
PACKAGE BINDSTAMP MASK 2	Package Bind Timestamp for comparison. <ul style="list-style-type: none"> ● The “LIKE” operator is not valid for BINDSTAMP fields. ● Timestamp fields can be specified as YYYYMMDDHHMMSS. ● Timestamp fields can also be specified as NOW +/- NNNN or NOW, where NOW represents the present time. ● The timestamp default is NOW-3 (Anything which has occurred in the last three days).
PACKAGE COLLECTION MASK 1	Package Collection ID or mask name for comparison.
PACKAGE COLLECTION MASK 2	Package Collection ID for comparison.
PACKAGE CREATOR MASK 1	Package Creator or mask name for comparison.

FIELD	DESCRIPTION
PACKAGE CREATOR MASK 2	Package Creator for comparison.
PACKAGE MASK1	Package or mask name for comparison. The value must be a valid package name unless “LIKE” is specified as the operator; otherwise, the value must be a valid DB2 mask.
PACKAGE MASK2	Package name for comparison.
PACKAGE OWNER MASK 1	Package Owner or mask name for comparison.
PACKAGE OWNER MASK 2	Package Owner for comparison.
PACKAGE QUALIFIER MASK 1	Package Qualifier or mask name for comparison.
PACKAGE QUALIFIER MASK 2	Package Qualifier for comparison.
PACKAGE VERSION MASK 1	Package Version or mask name for comparison.
PACKAGE VERSION MASK 2	Package Version for comparison.
PACKLIST COLLECTION MASK 1	Packlist collection or mask name for comparison.
PACKLIST COLLECTION MASK 2	Packlist collection for comparison.
PACKLIST LOCATION MASK 1	Packlist location or mask name for comparison.
PACKLIST LOCATION MASK 2	Packlist location for comparison.
PACKLIST PACKAGE MASK 1	Packlist package or mask name for comparison.
PACKLIST PACKAGE MASK 2	Packlist package for comparison.
PARENS	Used in conjunction with the AND/OR field to set conditional masking.
PERMANENT	Specifies if changes are permanent. Y Yes N No

Selection Masking

FIELD	DESCRIPTION
PLAN BINDSTAMP MASK 1	Plan Bind Timestamp or mask name for comparison. <ul style="list-style-type: none"> ● The “LIKE” operator is not valid for BINDSTAMP fields. ● Timestamp fields can be specified as YYYYMMDDHHMMSS. ● Timestamp fields can also be specified as NOW +/- NNNN or NOW, where NOW represents the present time. ● The timestamp default is NOW-3 (Anything which has occurred in the last three days).
PLAN BINDSTAMP MASK 2	Plan Bind Timestamp for comparison. <ul style="list-style-type: none"> ● The “LIKE” operator is not valid for BINDSTAMP fields. ● Timestamp fields can be specified as YYYYMMDDHHMMSS. ● Timestamp fields can also be specified as NOW +/- NNNN or NOW, where NOW represents the present time. ● The timestamp default is NOW-3 (Anything which has occurred in the last three days).
PLAN CREATOR MASK 1	Plan Creator or mask name for comparison.
PLAN CREATOR MASK 2	Plan Creator for comparison.
PLAN MASK1	Plan or mask name for comparison. The value must be a valid plan name unless “LIKE” is specified as the operator, otherwise the value must be a valid DB2 mask.
PLAN MASK2	Plan name for comparison.
PLAN OWNER MASK 1	Plan Owner ID or mask name for comparison.
PLAN OWNER MASK 2	Plan Owner ID for comparison.
PLAN QUALIFIER MASK 1	Plan Qualifier or mask name for comparison.
PLAN QUALIFIER MASK 2	Plan Qualifier for comparison.

Set Defaults

Overview

This unit describes the Set Defaults panel.

Background about the Set Defaults panel

The Set Defaults panel (KTEPHOSE) gives you the opportunity to resolve unqualified table names prior to EXPLAINing an SQL statement. The creator ID can be set to the plan owner, the current TSO user ID, or a user specified name. These changes can be permanent or temporary.

However, you can also set the creator ID from anywhere in !DB/EXPLAIN by entering the appropriate set global commands. These commands are summarized here although they are not part of the Set Defaults panel.

SET?	Displays a panel of available Set commands.
SETC	Prefixes unqualified table names with Creator ID specified in the Other field.
SETD	Sets Current Degree
SETL	Sets default remote location.
SETN	Sets SET option to #N.
SETO	Prefixes unqualified table names with the Plan owner.
SETP	Sets the Plan Table owner.

Sets the Plan Table owner unless the creator option is set to #4 SQLID (SETS).

If SETP is specified *and SETS is not*, then a SET CURRENT SQLID command uses the value specified for SETP prior to EXPLAINing SQL statements.

If *both* SETP and SETS are specified, then a SET CURRENT SQLID command uses the value specified for SETS prior to EXPLAINing SQL statements.

Background about the Set Defaults panel (continued)

SETU Prefixes unqualified table names with TSO user ID.

SETS Sets the SQLID ID to a specified value.

The format of the SETC and SETS is as follows:

SETX AAAAAAA

where *X* = C or S and AAAAAAA is the user supplied name.

Access

You can access this panel by selecting option 6 from the Housekeeping panel.

Panel

This is the Set Defaults panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

                S E T   D E F A U L T S
PERMANENT? ==>  ( Y Yes  N No )

                extracted      non-extracted
                entity         entity
Creator Option  > 1           > 2
1. Use Qualifier / Owner (SET0)
2. Use TSO Userid (SETU)
3. Use this Creator id (SETC) >
4. Authid for      (SETS) >
   SET CURRENT SQLID

Plan Table Owner (SETP) >
Default Remote Location (SETL) >
CURRENT DEGREE (SETD) >

Do SET0 if Qualifier Specified for KTEXPLD? ==> N (Y / N)
KTEXPL owner for synonyms ==>
Qualify synonyms with plan / package qualifier ==> Y (Y / N)

ENTER to process  END to cancel

```

Fields

In the table below, some fields are described as containing values for both extracted and non-extracted entities. Extracted entities are plans, packages, or DBRMs (or statements from one of these) that reside in the !DB/EXPLAIN extract datasets. You would have entered !DB/EXPLAIN via the CLISTs KTE, or KTC, or the batch job *DB2idUTIL*.

Non-extracted entities are QMF queries, SQL statements you have typed in, or DBRMs (PDS members). You would have entered !DB/EXPLAIN via the edit macros KTEXPL or KTEXPLB, the CLISTs KTEXPLA, KTEXPLBA, KTEXPLD or KTEON, or the batch jobs KTEBSQLS, KTEBDBRM, or KTEBDBR2.

FIELD	DESCRIPTION
CREATOR OPTION	Numeric field representing how to qualify unqualified tables in SQL statements. <ol style="list-style-type: none"> 1. Plan Owner 2. TSO User ID 3. Other - A name supplied by the user 4. SQLID - Authid for the SET CURRENT SQLID command This field contains values for both extracted and non-extracted entities.
DEFAULT REMOTE LOCATION	Indicates the default location to use for remote operations such as remote EXPLAINS. This field contains values for both extracted and non-extracted entities.
KTEXPL OWNER FOR SYNONYMS	Authid to use as owner of synonyms in KTEXPL. Specify blank to use the current SET value.
PLAN TABLE OWNER	Indicates the PLAN_TABLE owner. <p>Note: A SET CURRENT SQL ID will be done for this ID if the CREATOR option is not equal to 4 and is doing a static SQL.</p> This field contains values for both extracted and non-extracted entities.
PERMANENT INDICATOR	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).
QUALIFY SYNONYMS WITH PLAN/PACKAGE QUALIFIER	Determines whether synonyms in extracted statements are qualified by the addition of the plan or package qualifier. <p>Y Resolve synonyms using the plan/package qualifier.</p> <p>N Resolve synonyms using the current SET value.</p> This field contains values for both extracted and non-extracted entities.
SET CURRENT DEGREE	Value to which CURRENT DEGREE is to be set when EXPLAINing statements. The field value can be: <p>1 Current Degree is set to 1</p> <p>Any Current Degree is set by underlying DB2 subsystem.</p> <p>blank Indicates the degree set at bind time should be used for extracted entities. For non-extracted entities, the field's value is set to 1..</p> This field contains values for both extracted and non-extracted entities.

Set Defaults

FIELD	DESCRIPTION
SETO (Set Owner)	Determines whether !DB/EXPLAIN should set the creator option to 1 when entering from CLIST KTEXPLD, batch job KTEBDBR2, or option 3 on panel KTEPMEON. Setting the creator option to 1 causes unqualified table names to be prefixed with the ID of the plan owner. This field contains values for both extracted and non-extracted entities.

SQL Defaults

Overview

This unit describes the SQL Defaults panel.

Background about the SQL Defaults panel

The SQL Defaults panel KTEPHODS allows you to override the profile dataset during the current !DB/EXPLAIN session. You can specify whether you want the changes to be permanent or for the current session of !DB/EXPLAIN only.

Panel

The following illustration shows the SQL Defaults panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

                S Q L   D E F A U L T S

PERMANENT? ==>   ( Y Yes  N No )

Decimal point option for KTEXPL ==>   (blank, period or comma)
SQL string delimiter for KTEXPL ==>   (apostrophe, quote, blank or Q)
Max Length for Host Var input   ==> 77
Commit executed SQL statements? ==> N (Y Commit N Rollback)
Work size for SQL results       ==> 1 (Megabytes)
Storage amount for KTEXPL stmts ==> 81920 (4096 - 4194304 bytes)
Bypass Statements display?     ==> N (N No E Yes,EXPLA G Yes,GEXPLA)
Display KTEXPL source in header ==> Y (N No Y Yes)

ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
BYPASS STATEMENTS DISPLAY?	Determines whether to bypass display of the Statements panel KTEPSTMT. Valid values are: N Display the Statements panel. E Do not display the Statements panel. Issue the EXPLA command and display the EXPLAIN panel. G Do not display the Statements panel. Issue the GEXPLA command and display the EXPLAIN panel.
COMMIT EXECUTED SQL STATEMENTS	Indicates whether to commit or rollback after executing a SQL statement: Y Commit N Rollback
DECIMAL POINT OPTION FOR KTEXPL	Indicates what the decimal point will be in SQL statements you type in (using KTEXPL). blank Use the DB2 subsystem's default decimal point option . Use a period , Use a comma
DISPLAY KTEXPL SOURCE IN HEADER	Determines whether to display the KTEXPL source library in the header text of the Statements or EXPLAIN panel. Valid values are: Y Display the KTEXPL source library. N Do not display the KTEXPL source library.
MAX LENGTH FOR HOST VAR INPUT	This field is valid for non-extracted variables only. It indicates the amount of space to allow for host variable input, for example, KTEXPL or KTEQMF, on panel KTEPHSVU. Valid values range from 3 through 256.
PERMANENT	Indicates whether to update the profile dataset with these changes (permanently) or update for current !DB/EXPLAIN session only (temporarily).
SQL STRING DELIMITER FOR KTEXPL	The value used as the SQL string delimiter in SQL statements typed in using KTEXPL. Specify one of the following: blank If DEFAULT is specified for DECPSDL then the SQL string delimiter is assumed to be the apostrophe. Q If Q is specified for DECPSDL then the SQL string delimiter is assumed to be the quote. ' If the SQL string delimiter is an apostrophe. " If the SQL string delimiter is a quote.
STORAGE AMOUNT FOR KTEXPL	The amount of storage to be obtained for SQL statements entered via KTEXPL. The amount must be at least as large as the longest SQL statement in the input file.
WORK SIZE FOR SQL RESULTS	The amount of virtual storage reserved to execute statement processing. Specify from 1 to 9 megabytes of storage. Default is 1MB.

SQL Formats for KTEXPL

Overview

This unit describes the SQL Formats for KTEXPL panel.

Background about the SQL Formats for KTEXPL panel

The SQL Formats for KTEXPL panel (KTEPHOSQ) allows you to set up the defaults for parsing SQL text through the edit macro KTEXPL, the CLIST KTEXPLA, or the batch job KTEBSQLS. There are seven predefined formats and six undefined formats. You can change any of the formats.

Access

You can access the SQL Formats for KTEXPL panel from the Housekeeping panel.

Panel

The following illustration shows the SQL Formats for KTEXPL panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>

          S Q L   F O R M A T S   F O R   K T E X P L

PERMANENT? ==>   ( Y Yes  N No )

          Format of the      Host   Comment      Format ==>
          Input File        LHS  RHS  Col   Var.   Beg End   SQL      All   in   Lang
          -----          -----
          A - ASSEMBLER      1   71  72    :   1   *   NA   NA      N    N
          B - C              1   72  0     :   0   /*  */   ;      N    N   D
          C - COBOL         8   72  0     :   7   *   NA   END-EXEC N    Y
          F - FORTRAN       7   72  6     :   1   *   NA   NA      N    N
          P - PLI           2   72  0     :   0   /*  */   ;      N    N
          Q - QMF           1   79  0     &   0   --  NA   ;      Y    N
          S - SPUFI         1   71  0     :   0   --  NA   ;      Y    N
          T - UNDEFINED      0   0   0     :   0
          U - UNDEFINED      0   0   0     :   0
          V - UNDEFINED      0   0   0     :   0
          W - UNDEFINED      0   0   0     :   0
          X - UNDEFINED      0   0   0     :   0

ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
ALL SQL	Indicates if there is program text between SQL statements: Y Yes N No
COMMENT BEG DEL	Delimiter that signifies the beginning of a comment.
COMMENT COLUMN	If the language specifies a comment with a delimiter in a specific column, this is the column in which the delimiter appears.
COMMENT END DEL	Delimiter that signifies the end of a comment (if applicable).
CONT. COLUMN	If the language uses a flag in a specific column to signify the continuation of a statement, this is the column where the continuation flag appears.
DASH IN HOST	Indicates if host variables can contain embedded dashes. Y Yes N No
FORMAT	Indicates which SQL format to use. Note: If an SQL format is invalid or unavailable, an error message is displayed and the KTEPHOSQ panel is redisplayed.
FORMAT OF THE INPUT FILE	Provides the name of the input file format. The text in this field is modifiable. You can change any of the formats and define undefined formats to suit your needs. Formats that remain undefined are not usable. A Assembler source code B C source code C COBOL source code F FORTRAN source code P PLI source code Q QMF queries S SPUFI queries T - X Undefined (user defined) Note: Certain of these fields have specific formats associated with them. These are: <ul style="list-style-type: none"> ● SAS A SAS-type format is used. ● FORTRAN A FORTRAN format is used. ● HPS An HPS format is used. ● EZTRIEVE An EasyTrieve format is used.
HOST VARIABLE FLAG	One-character flag that indicates a host variable follows. Valid values are: <ul style="list-style-type: none"> ● : ● &

FIELD	DESCRIPTION
LANG TYPE	<p>Indicates whether an asterisk can be used as the indirect unary operator, as, for example, in the C Language format. Valid values are:</p> <p>D Asterisk can be used as a unary operator for indirection in the incoming text file</p> <p>Any other value Asterisk can not be used as a unary operator for indirection in the incoming text file</p>
LHS	Indicates the leftmost column of SQL text.
PERMANENT	<p>Indicates whether changes are permanent or temporary.</p> <p>Y Yes (permanent)</p> <p>N No (temporary)</p>
RHS	Indicates the rightmost column of SQL text.
SQL DELIMITER	Delimiter that indicates the end of an SQL statement. Valid values are any non-blank strings.

Tuning Parameters

Overview

This unit describes the VSAM Tuning Parameters panel.

Background about the VSAM Tuning Parameters panel

The VSAM Tuning Parameters panel (KTEPHOVB) allows you to specify the number of data and index buffers used to process the extract dataset when using !DB/EXPLAIN. These values are not used when running the !DB/EXPLAIN Extract.

Access

You can access the VSAM Tuning Parameters panel from the Housekeeping panel.

Panel

The following illustration shows the VSAM Tuning Parameters panel.

```

----- DB/EXPLAIN DB2=D31A -----
Cmd ==>
                T U N I N G   P A R A M E T E R S

PERMANENT? ==>  ( Y Yes  N No )
Catalog extract dataset data buffers    ==> 91
Catalog extract dataset index buffers   ==> 10
Statements extract dataset data buffers ==> 5
Statements extract dataset index buffers ==> 2
Plan_table extract dataset data buffers ==> 5
Plan_table extract dataset index buffers ==> 2
Plan_table extract dataset data buffers ==> 10 (for output)
Plan_table extract dataset index buffers ==> 10 (for output)
Enqueue on extract datasets             ==> Y
Deallocate Statements extract dataset after each use? ==> N
Deallocate Plan_table extract dataset after each use? ==> N
Number of DBRMs to process before freeing intermediate storage ==> 5
Number of statements to process before freeing interm. storage ==> 100
Issue XUPDT command after freeing intermediate storage? ==> Y
Issue WTOR if encounter contention on XUPDT in batch ? ==> Y
Number of DBRMs to process before freeing inter. storage (XCPT) ==> 500
Keep Plan_table extract dataset open for update? ==> N

ENTER to process  END to cancel

```

Fields

FIELD	DESCRIPTION
CATALOG EXTRACT dataset BUFFERS	Number of data buffers to use when reading the catalog extract dataset.
CATALOG EXTRACT dataset INDEX BUFFERS	Number of index buffers to use when reading the catalog extract dataset.
DEALLOCATE PLAN_TABLE EXTRACT DATASET AFTER EACH USE?	Indicates whether to close and deallocate the plan table extract dataset after each request.
DEALLOCATE STATEMENTS EXTRACT DATASET AFTER EACH USE?	Indicates whether to close and deallocate the statements extract dataset after each request.
ENQUEUE ON EXTRACT DATASETS	Specifies whether or not to enqueue on extract DATASETS. Y Yes N No
ISSUE XUPDT COMMAND AFTER FREEING INTERMEDIATE STORAGE	Specifies whether or not to issue an XUPDT command after freeing intermediate storage. Y Yes N No
ISSUE WTOR IF ENCOUNTER CONTENTION ON XUPDT IN BATCH?	Determines whether or not to issue WTOR prior to cancelling extract update when contention is encountered on batch XUPDT. Y Yes N No
KEEP PLAN_TABLE EXTRACT DATASET OPEN FOR UPDATE?	Specifies whether or not to keep the Plan Table Dataset open for update. Y Yes N No F Once the dataset is opened for update, it is to remain open for the duration of the function.
NUMBER OF DBRMS TO PROCESS BEFORE FREEING INTERMEDIATE STORAGE	Number of DBRMs to process when performing an EXPLAIN or latest EXPLAIN before freeing intermediate storage. Value ranges from 0 to 32000.

Tuning Parameters

FIELD	DESCRIPTION
NUMBER OF DBRMS TO PROCESS BEFORE FREEING INTERMEDIATE STORAGE (XCPT)	Number of DBRMs to process when performing an EXPLAIN or latest EXPLAIN before freeing intermediate storage during exception processing. Value ranges from 0 to 32000.
NUMBER OF STATEMENTS TO PROCESS BEFORE FREEING INTERMEDIATE STORAGE	Number of statements to process when performing an EXPLAIN or latest EXPLAIN before freeing intermediate storage. Value ranges from 0 to 32000.
PERMANENT?	Indicates if changes are permanent (Y) or for the current session of !DB/EXPLAIN only (N).
PLAN_TABLE EXTRACT DATASET DATA BUFFERS	Number of data buffers to use when reading the plan table extract dataset.
PLAN_TABLE EXTRACT DATASET DATA BUFFERS (FOR OUTPUT)	Number of data buffers to use when writing to the plan table extract dataset.
PLAN_TABLE EXTRACT DATASET INDEX BUFFERS	Number of data buffers to use when reading the plan table extract dataset.
PLAN_TABLE EXTRACT DATASET INDEX BUFFERS (FOR OUTPUT)	Number of data buffers to use when writing to the plan table extract dataset.
STATEMENTS EXTRACT DATASET DATA BUFFERS	Number of data buffers to use when reading the statements extract dataset.
STATEMENTS EXTRACT DATASET INDEX BUFFERS	Number of data buffers to use when reading the statements extract dataset.

Appendixes

Appendix A. Commands Available from Object List Panels

	Collection	Compare Formats	Compare History	Column Dist Stats	Costs	DBRMs	Estimator	Exceptions	EXPLAIN	EXPLAIN Compare	EXPLAIN History	Host Variables	Libraries	Package Connections	Packages	Plan Connections	Plan Pkglist	Plan Verification	Plans	Primary Menu	Statements	Table Columns	Tables	Verification	Whatif
ACTLOG	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
ADMIN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
ASORT	√				√	√					√	√	√	√	√	√	√		√				√		
BIND						√									√				√						
BINDADD						√									√				√						
BINDCNV						√													√						
BINDEXP						√									√				√						
BINDREP						√									√				√						
CALC							√																		
CAN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
CAPS OFF												√													
CAPS ON												√													
CDBR					√																				
CEXPL			√																						
CHANGE							√															√			√
CHANGES	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
CHAR				√																		√			
COMPARE						√									√				√						
COST						√		√							√				√						
CPKG					√																				
CPLN					√																				
DEBUG	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
DEBUGOFF	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
DEBUGON	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
DELETE				√							√	√													
DIFF										√															
DISPLAY																								√	

Commands available from object list panels (continued)

	Collection	Compare Formats	Compare History	Column Dist Stats	Costs	DBRMs	Estimator	Exceptions	EXPLAIN	EXPLAIN Compare	EXPLAIN History	Host Variables	Libraries	Package Connections	Packages	Plan Connections	Plan Pkglist	Plan Verification	Plans	Primary Menu	Statements	Table Columns	Tables	Verification	Whatif	
DO			√	√	√	√	√	√	√	√	√		√		√			√	√		√	√	√		√	
DOP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
DOS	√				√	√					√	√	√	√	√	√	√		√				√			
DROP															√				√							
DSORT	√				√	√					√	√	√	√	√	√	√		√				√			
DUPS						√																				
EALL									√																	
EBIND									√																	
ECOST									√																	
EDIFF										√																
EKEYS									√																	
EOBJ									√																	
EPATH									√																	
EPTBL									√																	
EPTB2									√																	
ERECM									√																	
ESTIM																									√	
ESTMT									√																	
EXODS									√																	
EXPL						√									√				√							
EXPLA						√									√				√		√					
EXPLAR						√									√				√		√					
EXPLO						√									√				√							
EXPLOR						√									√				√							
EXPLR						√									√				√							
FILTA	√				√	√			√		√		√		√				√		√		√			
FILTO	√				√	√			√		√		√		√				√		√		√			
FILTR	√				√	√			√		√		√		√				√		√		√			
FILT?	√				√	√			√		√		√		√				√		√		√			
FIND							√		√												√	√			√	
FORMATn		√		√	√	√	√		√		√		√		√			√	√		√	√			√	
FORMAT?		√		√	√	√	√		√		√		√		√			√	√		√	√			√	
FREE	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
GEXPL						√									√				√							
GEXPLA						√									√				√		√					

Commands available from object list panels (continued)

	Collection	Compare Formats	Compare History	Column Dist Stats	Costs	DBRMs	Estimator	Exceptions	EXPLAIN	EXPLAIN Compare	EXPLAIN History	Host Variables	Libraries	Package Connections	Packages	Plan Connections	Plan Pkglist	Plan Verification	Plans	Primary Menu	Statements	Table Columns	Tables	Verification	Whatif	
GEXPLAR						√									√				√		√					
GEXPLO						√									√				√							
GEXPLOR						√									√				√							
GEXPLR						√									√				√							
GLOBAL	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
GSTATS						√																				√
HEADERn	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
HEX				√																			√			
HIST						√									√				√							
HOUSE	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
HOUSEn	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IMPACT						√									√				√							
INFO						√									√				√							
JCL	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
LALL													√													
LDBR													√													
LEHIST						√									√				√							
LEXPL						√		√							√				√		√					
LOCATE							√														√	√			√	
LPKG													√													
MAINT	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
MAINT?	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
MSGHELP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
NDXS							√																			√
NEWSET				√			√																√			√
NEWSETALL							√																√			√
NODUPS						√																				
NOFILT	√				√	√			√		√		√		√				√		√		√			
NOHIST						√									√				√							
NONDXS							√																			√
NOSTAT							√																√			√
NOSTATALL							√																√			√
NOVERS									√												√					

Commands available from object list panels (continued)

	Collection	Compare Formats	Compare History	Column Dist Stats	Costs	DBRMs	Estimator	Exceptions	EXPLAIN	EXPLAIN Compare	EXPLAIN History	Host Variables	Libraries	Package Connections	Packages	Plan Connections	Plan Pkglist	Plan Verification	Plans	Primary Menu	Statements	Table Columns	Tables	Verification	Whatif
OUT							√		√												√				√
PDEBUGON	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
PDEBUGOFF	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
PRNT	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
PROFOUT	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
PROFOUTE	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
PROFVAR	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
REBIND															√				√						
REINDEX															√				√						
REFRESH																				√					
RESET				√			√		√			√										√	√		√
RESETALL							√					√											√		√
RFIND							√		√													√	√		√
RLOCATE							√															√	√		√
SETC	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SETD	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SETL	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SETn	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SETO	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SETP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SETS	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SETU	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SET?	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SHOW																						√			
SHOWE																						√			
SNAPALL	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SNAPALLS	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SNAPDS	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SNAPEX	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SORT	√				√	√					√	√	√	√	√	√	√		√				√		
SORT?	√				√	√					√	√	√	√	√	√	√		√				√		
SQL	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

Commands available from object list panels (continued)

	Collection	Compare Formats	Compare History	Column Dist Stats	Costs	DBRMs	Estimator	Exceptions	EXPLAIN	EXPLAIN Compare	EXPLAIN History	Host Variables	Libraries	Package Connections	Packages	Plan Connections	Plan Pkglist	Plan Verification	Plans	Primary Menu	Statements	Table Columns	Tables	Verification	Whatif	
STMTS								√																		
TIPS	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
TRACEALL	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
TRACED	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
TRACEG	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
TRACEL	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
TRACEOFF	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
UBROWSE	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
UEDIT	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
UNIFORM							√															√			√	
UPDT							√																		√	
UPDTL							√																		√	
UPDTR							√																		√	
VERS									√												√					
WIF																									√	
WIFL																									√	
WIFR																									√	
WIFU																									√	
WIFUL																									√	
WIFUR																									√	
XCPT						√									√				√		√		√			
XERR								√																		
XUPDT	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

Commands Available from Object List Panels

Appendix B. Dictionary of !DB/EXPLAIN Commands

COMMAND	DESCRIPTION
ACTLOG	Access the activity log.
ADMIN	Display the Administration Menu panel.
ASORT	Sort in ascending sequence.
BIND	Generate bind statements. Can take the form BIND <i>member</i> , where <i>member</i> specifies a member name in your user PDS. Can also take the MOD option (see p. “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>). This member name is used to override the name specified on the Housekeeping Output Options Defaults panel.
BINDADD	BIND ACTION(YES). Can take the form BINDADD <i>member</i> , where <i>member</i> specifies a member name in your user PDS. Can also take the MOD option (see p. “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>). This member name is used to override the name specified on the Housekeeping Output Options Defaults panel.
BINDCNV	For DBRMs and Plans, convert DBRMs for the displayed object list to Packages and generate the commands required to BIND the relevant Plans. Can take the form BINDCNV <i>member</i> , where <i>member</i> specifies a member name in your user PDS. Can also take the MOD option (see p. “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>). This member name is used to override the name specified on the Housekeeping Output Options Defaults panel.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
BINDEXP	BIND EXPLAIN(YES). Can take the form BINDEXP <i>member</i> , where <i>member</i> specifies a member name in your user PDS. Can also take the MOD option (see p. “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>). This member name is used to override the name specified on the Housekeeping Output Options Defaults panel.
BINDREP	BIND ACTION(REPLACE). Can take the form BINDREP <i>member</i> , where <i>member</i> specifies a member name in your user PDS. Can also take the MOD option (see p. “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>). This member name is used to override the name specified on the Housekeeping Output Options Defaults panel.
CALC	Calculate statistics.
CAN	Cancel all selects.
CAPS OFF	Set mode of any data entry fields to accept mixed-case input
CAPS ON	Set mode of any data entry fields to fold all data entered to upper case
CDBR	Display DBRM costs.
CEXPL	Compare EXPLAIN data. For batch restrictions on the use of CEXPL, see “Compare History” on page 45.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
CHANGE	Change all of the values for the specified field to the specified value.
CHANGES	Display !DB/EXPLAIN product changes.
CHAR	Display all lines of character or graphic data in character format.
COMPARE	Perform bind compare of each DBRM, plan, or package in the current display according to the options set on the Bind Compare Options Housekeeping Panel.
COST	Display statement costs.
CPKG	Display package costs.
CPLN	Display plan costs.
DEBUG	Display only parser and DB2 errors to ensure minimal impact
DEBUGOFF	Turn the Automated Trace Facility off or turn DEBUG off.
DEBUGON	Turn the Automated Trace Facility on.
DELETE	Delete all lines (Column Distribution or Table Columns function).
DELETE	Delete historical EXPLAINs (EXPLAIN Function).
DELETE	Delete all saved host variable values and attributes (Host Variables Function).
DIFF	Reset EDIFF.
DISPLAY	Display statements from DBRM.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
DO	Access menu of available commands.
DOP	Access Print Options.
DOS	Access menu of available sorts.
DROP	Generate FREE statements for each item on the list.
DSORT	Sort in descending sequence.
DUPS	Display all DBRMs.
EALL	Display all sections of the EXPLAIN display.
EBIND	Display plan bind or package bind information on the EXPLAIN display.
ECOST	Display cost information on the EXPLAIN display.
EDIFF	Display all the differences in access path between the two EXPLAINS in plain English.
EKEYS	Include index key information with the EOBJ section of the EXPLAIN Format 0 display.
EOBJ	Display detailed object information on the EXPLAIN display.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
EPATH	Display access path summary information in textual form on the EXPLAIN display.
EPTBL	Display plan table information on the EXPLAIN display in a one-line format.
EPTB2	Display plan table information on the EXPLAIN display in a two-line format.
ERECM	Display recommendations information on the EXPLAIN display.
ESTIM	Access the Estimator function.
ESTMT	Display statement text and SQL error text (for any SQL errors encountered) on the EXPLAIN display.
EXODS	Write EXPLAIN output to a dataset. Can take the form EXODS member , where <i>member</i> specifies a member name in your user PDS. Can also take the MOD option (see p. “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>). This member name is used to override the name specified on the Housekeeping Output Options Defaults panel.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
EXPL	EXPLAIN all items that have not been EXPLAINED since they were last bound and display latest EXPLAIN for previously EXPLAINED entities.
EXPLA	EXPLAIN all items regardless of bind time.
EXPLAR	Remote EXPLAIN all items regardless of bind time.
EXPLO	EXPLAIN and display all items that have not been EXPLAINED since they were last bound. Do not gather catalog statistics.
EXPLOR	Remote EXPLAIN and display all items that have not been EXPLAINED since they were last bound. Do not gather catalog statistics.
EXPLR	Remote EXPLAIN all items that have not been EXPLAINED since they were last bound and display latest EXPLAIN for previously EXPLAINED entities.
FILTA	Filter display using AND logic.
FILTO	Turn off filtering for the current display.
FILTR	Filter display using OR logic.
FILT?	Display the Filter panel.
FIND	Find a specific character string on the display.
FORMATn	Display the current list using Format #n (where n = the format number).
FORMAT?	Access menu of available formats.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
FREE	Generate FREE statements for all items on the list. Can also take the MOD option (see p. “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>).
GEXPL	EXPLAIN all items on the list that have not been EXPLAINed since they were last bound, gather statistics, and display latest EXPLAIN for previously EXPLAINed entities.
GEXPLA	EXPLAIN all and gather statistics regardless of bind time.
GEXPLAR	Remote EXPLAIN all and gather statistics regardless of bind time.
GEXPLO	EXPLAIN and display all items that have not been EXPLAINed since they were last bound. Gather catalog statistics.
GEXPLOR	Remote EXPLAIN and display all items that have not been EXPLAINed since they were last bound. Gather catalog statistics.
GEXPLR	Remote EXPLAIN all items that have not been EXPLAINed since they were last bound and gather statistics.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
GLOBAL	Display the first page of the global command menu.
GLOMORE	Display the second page of the global command menu.
GSTATS	Gather statistics from the catalog and refresh the appropriate display.
HEADERn	<p>n may be a value from 1 through 6. When used with the PRNT command, HEADER prints the text you specify on each page of the printed output. For example,</p> <p style="text-align: center;">HEADER1=INVENTORY REPORT HEADER2=The Manufacturing Company</p> <p>places two lines of header output on your printout.</p>
HEX	Display all lines of character or graphic data in hexadecimal format.
HIST	Display PLAN/PACKAGE/DBRM History.
HOUSE	Display the Housekeeping Menu.
HOUSEmmm	Display the Housekeeping panel represented by the mnemonic mmm. A list of mnemonics is found in the online Help for the Housekeeping Menu and in “Housekeeping” on page 315.
HOUSEn	Access Housekeeping panel #n where n is the panel's number on the Housekeeping Menu.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
IMPACT	Compare each nonhistorical item with its most recent historical counterpart.
INFO	Display the Information panel for a selected DBRM, plan, or package.
JCL	Display the JCL panel associated with the function you want to perform. If !DB/EXPLAIN is unable to determine what function you want, it displays the JCL Generation panel.
JCL?	Display the JCL Generation panel to start the JCL generate function.
KTEMODEL	(Previously MODEL.) Used on the secondary panels used when creating batch JCL to copy sample SYSIN statements into your batch job.
KTESYSIS	Used on the secondary panels used when creating batch JCL to browse sample SYSIN statements.
LALL	Display all DBRM and package members in Library.
LDBR	Display all DBRM members in Library.
LEHIST	Display Latest EXPLAIN History.
LEXPL	Display Latest EXPLAIN.
LOCATE	Reposition the list starting with a specific object.
LPKG	Display all package members in Library.
MAINT	Display the maintenance level of the current !DB/EXPLAIN system

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
MAINT?	Display the maintenance level of all installed !DB/Tools.
MSGHELP	Display extended Help for the message whose Message Identifier is entered.
NDXS	Display all Indexes.
NEWSET	Establish a new statistics set.
NEWSETALL	Establish a new statistics set (including column distribution statistics).
NODUPS	Reset DUPS.
NOFILT	Reset all filters.
NOHIST	Reset History.
NONDXS	Reset NDXS.
NOSTAT	Set statistics to RUNSTATS, not run value.
NOSTATALL	Set statistics, including column distribution statistics, to RUNSTATS, not run value.
NOVERS	Reset VERS.
OUT	Generate REXX program to update catalog statistics. Can take the form OUT <i>member</i> , where <i>member</i> specifies a member name in your user PDS. Can also take the MOD option (see p. “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>). This member name is used to override the name specified on the Housekeeping Output Options Defaults panel.
OUT	(On Statements panel.) Output SQL statements.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
PDEBUGOFF	Turn parser debugging off.
PDEBUGON	Turn parser debugging on.
PRNT	Print the current active object list.
PROFOUT	Write current setting of user profile variables to user PDS in internal format.
PROFOUTE	Write current setting of user profile variables to user PDS in external format usable as input to KTECNTL to override current profile variable settings.
PROFVAR	Display profile variable description
REBIND	Generate REBIND statements. Can take the form REBIND <i>member</i> , where <i>member</i> specifies a member name in your user PDS. Can also take the MOD option (see p. “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>). This member name is used to override the name specified on the Housekeeping Output Options Defaults panel.
REBINDINDEX	REBIND EXPLAIN(YES). Can take the form REBINDINDEX <i>member</i> , where <i>member</i> specifies a member name in your user PDS. Can also take the MOD option (see p. “Controlling the Destination of !DB/EXPLAIN Output” in the <i>!DB/EXPLAIN User's Guide</i>). This member name is used to override the name specified on the Housekeeping Output Options Defaults panel.
REFRESH	Rebuild all data in memory that !DB/EXPLAIN uses. Use this command to pull more recent data from the extract.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
RESET	(On EXPLAIN display.) Reset the EXPLAIN display parameters to include no sections. This prepares your session so you can add back the sections of the display you want to include.
RESET	(On Host Variables display.) Reset host variable values and attributes.
RESET	(On Table Columns, Estimator, and Whatif display.) Reset statistics to the values established by the last statistics set.
RESETALL	(On Estimator, Table Columns, and Whatif display.) Reset statistics, including column distribution statistics, to the values established by the last statistics set.
RESETALL	(On Host Variables display.) Reset host variable values and attributes when in nonextracted mode.
RFIND	Reexecute the last FIND command.
RLOCATE	Reexecute the last LOCATE command.
SETC	Prefix unqualified tables with Creator ID. Specified in the "other" slot on set panel.
SETD	SET CURRENT DEGREE. Allows I/O parallelism to be disabled or enabled. Effective for DB2 Version 3 and later.
SETL	Set default remote location.
SETn	Set SET option to #n
SETO	Prefix unqualified tables with Plan Owner.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
SETP	Set Plan Table owner unless the creator option on the Set Defaults panel (KTEPHOSE) is set to #4 SQLID (SETS).
SETS	Set SQLID to a specified value.
SETU	Prefix unqualified tables with TSO Userid.
SET?	Display a panel of available Set commands.
SHOW	Expand all statements.
SHOWE	Expand all EXPLAINable statements.
SNAPALL	Write all problem program information plus SNAPEX plus SNAPDS to KTESNAP.
SNAPALLS	Write all system control information plus SNAPALL to KTESNAP.
SNAPDS	Write the content of EXPLAIN data spaces and EXPLAIN control blocks (if any data spaces) to KTESNAP.
SNAPEX	Write EXPLAIN control blocks to KTESNAP.
SORT	Reorder the current object list. Same as ASORT.
SORT?	Access menu of available sorts.

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
SQL	Display a panel so that you can enter and execute SQL statements.
STMTS	Display the SQL statements that triggered the exceptions.
TIPS	Display tips.
TRACEALL	Trace getmains and freemains, data space functions, and list functions.
TRACED	Trace data space functions.
TRACEG	Trace getmains and freemains.
TRACEL	Trace list functions.
TRACEOFF	Turn tracing off.
UBROWSE	Browse specified user PDS members.
UEDIT	Edit specified user PDS members.
UNIFORM	Set partitioned statistics to a uniform distribution.
UPDT	Update catalog with new statistics for specified server (local).
UPDTL	Update catalog with new statistics (local).
UPDTR	Update catalog with new statistics (remote).
VERS	Show version.
WIF	EXPLAIN with no statistics (local).

Dictionary of !DB/EXPLAIN commands (continued)

COMMAND	DESCRIPTION
WIFL	EXPLAIN with no statistics (local).
WIFR	EXPLAIN with new statistics and temporarily update the remote catalog with option to make statistics permanent.
WIFU	EXPLAIN with statistics and update local catalog.
WIFUL	EXPLAIN with statistics and update local catalog.
WIFUR	EXPLAIN with new statistics and permanently update the remote catalog with option to make statistics permanent.
XCPT	Display exceptions.
XERR	Display statements with SQL Error Exceptions.
XUPDT	Update Extract VSAM PLAN_TABLE dataset with all changes made online. This is <i>only</i> for PLAN_TABLE data.

Appendix C. Selects Available from Object List Panels

	Collections	Column Dist Stats	Costs	DBRMS	Estimator	Exceptions	EXPLAIN History	Extract History	Index Keys	Libraries	Packages	Plans	Statements	Table Columns	Tables	Whatif
?	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
@				√							√	√	√			
#				√							√	√	√			
A												√				
B				√							√	√				
C		√		√	√		√				√	√	√	√		√
D		√	√		√					√		√			√	√
E				√							√	√	√			
F											√	√				
G				√		√					√	√				
H				√							√	√	√			
I		√		√							√	√				
J				√				√			√	√				
K	√		√		√					√		√			√	√
L				√		√					√	√	√			
M	√											√				
N					√						√	√				√
O													√			
P	√		√	√							√	√			√	
Q											√	√				
R		√								√	√	√	√			
S				√		√	√		√		√	√	√	√	√	
T				√							√	√				
U				√							√	√	√			

Selects available from object list panels (continued)

	Collections	Column Dist Stats	Costs	DBRMS	Estimator	Exceptions	EXPLAIN History	Extract History	Index Keys	Libraries	Packages	Plans	Statements	Table Columns	Tables	Whatif
V				√						√	√	√	√			
W				√							√	√	√			
X		√		√							√	√	√	√	√	
Y							√			√			√			
Z				√								√	√			
2													√			
8				√							√	√				
9				√							√	√				

Appendix D. Dictionary of Selects

Select	Definition
---	-----
?	All object list panels: Display list of selects available on this panel.
---	-----
@	DBRMs: Remote EXPLAIN and gather statistics. Packages: Remote EXPLAIN and gather statistics. Plans: Remote EXPLAIN and gather statistics. Statements: Remote EXPLAIN and gather statistics.
---	-----
#	DBRMs: Remote EXPLAIN and do not gather statistics. Packages: Remote EXPLAIN and do not gather statistics. Plans: Remote EXPLAIN and do not gather statistics. Statements: Remote EXPLAIN and do not gather statistics.
---	-----
A	Plans: Display OMEGAMON II for DB2 Application Trace Facility.
---	-----

Dictionary of selects (continued)

Select	Definition
---	-----
B	<p>DBRMs: Generate a bind package statement for the selected DBRM.</p> <p>Packages: Generate a bind package statement for the selected package.</p> <p>Plans: Generate a bind plan statement for the selected plan.</p>
---	-----
C	<p>Column Distribution Statistics: Display VALUE in character format. This selection is only available for character or graphic data.</p> <p>DBRMs: Compare the results of the latest EXPLAIN with the results of a BIND EXPLAIN(YES).</p> <p>Estimator: Display and update table columns.</p> <p>EXPLAIN History: Compare two historical EXPLAINs.</p> <p>Packages: Compare the results of the latest EXPLAIN for the selected package with the results of a BIND EXPLAIN(YES) on that package.</p> <p>Plans: Compare the results of the latest EXPLAIN with the results of a BIND EXPLAIN(YES) on that plan.</p> <p>Statements: Reset SHOW and SHOWE.</p> <p>Table Columns: Display column distribution statistics in hexadecimal format. (Available only for the HIGH*KEY and LOW*KEY fields for columns that contain character or graphic data.)</p> <p>Whatif: Display and update table columns.</p>
---	-----

Dictionary of selects (continued)

Select	Definition
---	-----
D	<p>Column Distribution Statistics: Delete the current row unless this function was entered from Whatif. If entered from Whatif, you can delete only PART=0 rows.</p> <p>Costs: Display DBRMs panel.</p> <p>Estimator: Drop selected index.</p> <p>Libraries: Display all DBRMs in the selected library.</p> <p>Plans: Display all DBRMs for the selected plan.</p> <p>Tables: Display all DBRMs referencing the selected table.</p> <p>Whatif: Drop selected index.</p>
---	-----
E	<p>DBRMs: EXPLAIN statements and gather statistics.</p> <p>Packages: EXPLAIN package and gather statistics.</p> <p>Plans: EXPLAIN plan and gather statistics.</p> <p>Statements: EXPLAIN statement and gather statistics.</p>
---	-----
F	<p>Packages: Generate a FREE PACKAGE.</p> <p>Plans: Generate a FREE PLAN.</p>
---	-----

Dictionary of selects (continued)

Select	Definition
---	-----
G	<p>DBRMs: Display cost details for the selected DBRM.</p> <p>Exceptions: Display cost for the exceptions for all access path types.</p> <p>Packages: Display cost details for the selected package.</p> <p>Plans: Display cost details for the selected plan.</p>
---	-----
H	<p>DBRMs: Display EXPLAIN history for the selected DBRM.</p> <p>Packages: Display EXPLAIN history for the selected package.</p> <p>Plans: Display EXPLAIN history for the selected plan.</p> <p>Statements: Show host variables.</p>
---	-----
I	<p>Column Distribution Statistics: Insert a row following the current row unless this function was entered from Whatif. If entered from Whatif, you can insert only PART=0 rows.</p> <p>DBRMs: Display detailed DBRM information.</p> <p>Packages: Display detailed package information including BIND options.</p> <p>Plans: Display detailed plan information including BIND options.</p>
---	-----

Dictionary of selects (continued)

Select	Definition
---	-----
J	<p>DBRMs: Compare DBRM attributes for the two selected DBRMs.</p> <p>Extract History: Recreate the JCL used to generate the selected extract.</p> <p>Packages: Compare package attributes for the two selected packages.</p> <p>Plans: Compare plan attributes for the two selected plans.</p>
---	-----
K	<p>Collections: Display all packages associated with the selected collection.</p> <p>Costs: Display Packages panel.</p> <p>Estimator: Display index keys.</p> <p>Libraries: Display packages in the selected library.</p> <p>Plans: Display packages associated with the selected plan.</p> <p>Tables: Display all packages referencing the selected table.</p> <p>Whatif: Display index keys.</p>
---	-----

Dictionary of selects (continued)

Select	Definition
---	-----
L	<p>DBRMs: Display the output of the latest EXPLAIN for the selected DBRM.</p> <p>Exceptions Display the latest EXPLAIN for the exception.</p> <p>Packages: Display the output of the latest EXPLAIN for the selected package.</p> <p>Plans: Display the output of the latest EXPLAIN for the selected plan.</p> <p>Statements: Show latest EXPLAIN.</p>
---	-----
M	<p>Collections: Display all package lists associated with the selected collection.</p> <p>Plans: Display the selected plan's collection list.</p>
---	-----
N	<p>Estimator: Create new index.</p> <p>Packages: Display all connections for the selected package.</p> <p>Plans: Display all connections for the selected plan.</p> <p>Whatif: Create new index.</p>
---	-----
O	<p>Statements: Output to a dataset.</p>
---	-----

Dictionary of selects (continued)

Select	Definition
---	-----
P	<p>Collections: Display all plans associated with the selected collection.</p> <p>Costs: Display Plans panel.</p> <p>DBRMs: Display all plans associated with the selected DBRM.</p> <p>Packages: Display all plans associated with the selected package.</p> <p>Plans: Display OMEGAMON II for DB2 Accounting Reports.</p> <p>Tables: Display all plans referencing the selected table.</p>
---	-----
Q	<p>Packages: Display all collections associated with the selected package.</p> <p>Plans: Display all collections associated with the selected plan.</p>
---	-----
R	<p>Column Distribution Statistics: Repeat the current row.</p> <p>Libraries: Issue HRECALL for the requested selection.</p> <p>Packages: Generate a REBIND statement for the package.</p> <p>Plans: Generate a REBIND statement for the plan.</p> <p>Statements: Display recommendations.</p>
---	-----

Dictionary of selects (continued)

Select	Definition
---	-----
S	<p>DBRMs: Display the SQL statements for the selected DBRM.</p> <p>Exceptions: Display statements.</p> <p>EXPLAIN History: Display EXPLAIN.</p> <p>Index Keys: Display column information.</p> <p>Packages: Display the SQL statements for the selected package.</p> <p>Plans: Display the SQL statements for each DBRM and package in the plan.</p> <p>Statements: Show statements.</p> <p>Table Columns: Display column distribution statistics.</p> <p>Tables: Display all statements that access the selected table.</p>
---	-----
T	<p>DBRMs: Display tables for all DB2 tables, views, or aliases referenced by any SQL INSERT, SELECT, UPDATE, DELETE, LOCK, or DECLARE CURSOR statement in any DBRM or package.</p> <p>Packages: Display tables for all DB2 tables, views, or aliases referenced by any SQL INSERT, SELECT, UPDATE, DELETE, LOCK, or DECLARE CURSOR statement in any DBRM or package.</p> <p>Plans: Display tables for all DB2 tables, views, or aliases referenced by any SQL INSERT, SELECT, UPDATE, DELETE, LOCK, or DECLARE CURSOR statement in any DBRM or package.</p>
---	-----

Dictionary of selects (continued)

Select	Definition
---	-----
U	<p>DBRMs: EXPLAIN and do not gather statistics.</p> <p>Plans: EXPLAIN the plan and do not gather statistics.</p> <p>Packages: EXPLAIN the package and do not gather statistics.</p> <p>Statements: EXPLAIN the statement and do not gather statistics.</p>
---	-----
V	<p>DBRMs: Verify the DBRM.</p> <p>Libraries: Verify the selected library.</p> <p>Packages: Verify the package.</p> <p>Plans: Verify the Plan.</p> <p>Statements: Execute the statement.</p>
---	-----
W	<p>DBRMs: Perform what-if analysis on the selected DBRM.</p> <p>Packages: Perform what-if analysis on the selected package.</p> <p>Plans: Perform what-if analysis on the selected plan.</p> <p>Statements: Perform what-if analysis on the selected statement.</p>
---	-----

Dictionary of selects (continued)

Select	Definition
---	-----
X	<p>Column Distribution Statistics: Display VALUE in hexadecimal format. This selection is only available for character or graphic data.</p> <p>DBRMs: Display exceptions that exist for each SQL statement in the selected DBRM.</p> <p>Packages: Display exceptions that exist for each SQL statement in the selected package.</p> <p>Plans: Display exceptions that exist for each SQL statement in the selected plan.</p> <p>Statements: Display exceptions.</p> <p>Table Columns: Display column distribution statistics in hexadecimal format. (Available only for the HIGH*KEY and LOW*KEY fields for columns that contain character or graphic data.)</p> <p>Tables: Display exceptions for all statements that reference the selected table.</p>
---	-----
Y	<p>EXPLAIN History: Delete historical EXPLAINS.</p> <p>Libraries: Delete the selected library.</p> <p>Statements: Display SQL summary.</p>
---	-----
Z	<p>DBRMs: Generate BIND conversion statements to convert the DBRM to a package.</p> <p>Plans: Generate BIND conversion statements to convert the DBRM to a package and include the package in the plan.</p> <p>Statements: Execute the statement.</p>
---	-----

Dictionary of selects (continued)

Select	Definition
---	-----
2	Statements: Permit ISPF edit against statement.
---	-----
8	<p>DBRMs: EXPLAIN and display only DBRMs that have not been previously EXPLAINed. Gather catalog statistics.</p> <p>Packages: EXPLAIN and display only DBRMs that have not been previously EXPLAINed. Gather catalog statistics.</p> <p>Plans: EXPLAIN and display only DBRMs that have not been previously EXPLAINed. Gather catalog statistics.</p>
---	-----
9	<p>DBRMs: EXPLAIN and display only DBRMs that have not been previously EXPLAINed. Do not gather catalog statistics.</p> <p>Packages: EXPLAIN and display only DBRMs that have not been previously EXPLAINed. Do not gather catalog statistics.</p> <p>Plans: EXPLAIN and display only DBRMs that have not been previously EXPLAINed. Do not gather catalog statistics.</p>

Appendix E. !DB/EXPLAIN Sorts and Filters

Introduction

This appendix provides charts that identify the sorts and filters available from specific object list panels. In each chart:

- Column 1 contains the sort or filter keyword
- Column 2 contains the field name of the field that is acted on by the sort or filter. If column 2 is blank, it indicates that the sort or filter is acting on a composite value rather than on a specific field value.
- Column 3 contains the definition of the field whose name is contained in column 2.

Collections

Collections sorts

Sort	Field	Sort by ...
QCOL	COLLECTION	Collection name
QLOC	LOCATION	Location, collection name

Collections filters

Filter	Field	Filter on ...
QCOL	COLLECTION	Collection name
QLOC	LOCATION	Location

Costs

Costs sorts

Sort	Field	Sort by ...
C#ADG	ADG	Number of access degrees > 1
C#HBJ	HBJ	Number of hybrid joins
C#JDG	JDG	Number of join degrees > 1
C#IIS	II	Number of one-fetch index scans
C#LCK	LCK	Number of locks
C#LPF	LPF	Number of list prefetches
C#MIS	MIS	Number of matching index scans
C#MSJ	MSJ	Number of merge scan joins
C#MX		Number of multiple indexes
C#MXI	MI	Number of multiple index intersections
C#MXS	MX	Number of multiple index scans
C#MXU	MU	Number of multiple index unions
C#NLJ	NLJ	Number of nested loop joins
C#NMI	NMIS	Number of non-matching index scans
C#NS	N	Number of index scans for IN keyword
C#SPF	SPF	Number of sequential prefetches
C#SRG	SG	Number of sorts for group by
C#SRJ	SJ	Number of sorts for joins
C#SRO	SO	Number of sorts for order by
C#SRT	SRT	Number of sorts (no new table access)
C#SRU	SU	Number of sorts for unions

Costs sorts (continued)

Sort	Field	Sort by ...
C#TSS	TS	Number of table space scans
CACST	AVERAGE STMT COST	Average statement cost
CEXDT	EXPLAIN TIMESTAMP	EXPLAIN date/time, name
CMCST	MAXIMUM STMT COST	Maximum statement cost
CNAME	DBRM/PACKAGE/ PLAN	Name
CPCDT	PRECOMPILE TIMESTAMP	Precompile date/time, name
CTCST	TOTAL STMT COST	Total statement cost

Costs filters

Filter	Field	Filter on ...
C#ADG	ADG	Number of access degrees > 1
C#HBJ	HBJ	Number of hybrid joins
C#JDG	JDG	Number of join degrees > 1
C#IIS	I1	Number of one-fetch index scans
C#LCK	LCK	Number of locks
C#LPF	LPF	Number of list prefetches
C#MIS	MIS	Number of matching index scans
C#MSJ	MSJ	Number of merge scan joins
C#MXI	MI	Number of multiple index intersections
C#MXS	MX	Number of index scans on index
C#MXU	MU	Number of multiple index unions
C#NLJ	NLJ	Number of nested loop joins
C#NMI	NMIS	Number of non-matching index scans
C#NS	N	Number of index scans for IN keyword
C#SPF	SPF	Number of sequential prefetches

Costs filters (continued)

Sort	Field	Sort by ...
C#SRG	SG	Number of group by sorts
C#SRJ	SJ	Number of join sorts
C#SRO	SO	Number order by sorts
C#SRT	SRT	Total number sorts
C#SRU	SU	Number of unique sorts
C#TSS	TS	Number of table space scans
CACST	AVERAGE STMT COST	Average statement cost
CEXDT	EXPLAIN TIMESTAMP	EXPLAIN date/time
CMCST	MAXIMUM STMT COST	Maximum statement cost
CNAME	DBRM/PACKAGE/ PLAN	DBRM or Package name
CPCDT	PRECOMPILE TIMESTAMP	Precompile date/time
CTCST	TOTAL STMT COST	Total statement cost
CVER	VERSION	Version identifier

DBRMs

DBRMs sorts

Sort	Field	Sort by ...
D#DC	DECLARE CURSOR	Number of declare cursors
D#DL	DELETES	Number of deletes
D#IN	INSERTS	Number of inserts
D#LS	LCK SHR	Number of locks shared
D#LX	LCK XCL	Number of locks excluded
D#PL	PLAN HEADING	Number of plans using
D#SE	SELECTS	Number of selects
D#TL	STMTS	Number of total statements
D#TS		Total number of selects + declare cursors
D#UP	UPDATES	Number of updates
DACST	AVG STMT COST	Average statement cost
DBRM	DBRM	DBRM name
DMCST	MAX STMT COST	Maximum statement cost
DPCDT	PRECOMPILE DATE/TIME	Precompile date/time, name
DPLN	PLAN HEADING	Plan name, DBRM name
DTCST	TOTAL STMT COST	Total statement cost

DBRMs filters

Filter	Field	Filter on ...
D#AL	ALTER	Total number of alters
D#CA	CALL	Total number of CALL statements
D#CL	CLOSE	Total number of closes
D#CM	COMMIT	Total number of commits
D#CN	CONNECT	Total number of connects
D#CR	CREATE	Total number of creates
D#DC	DECLARE CURSOR	Total number of declare cursors
D#DL	DELETES	Total number of deletes
D#DM	DECLARE STATEMENT	Total number of declare statements
D#DS	DESCRIBE	Total number of describes
D#DT	DECLARE TABLE	Total number of declare tables

DBRMs filters (continued)

Filter	Field	Filter on ...
D#DR	DROP	Total number of drops
D#SR	SET RULES	Total number of SET CURRENT RULES statements
D#EC	EXECUTE	Total number of executes
D#EX	EXPLAIN	Total number of EXPLAINS
D#FT	FETCH	Total number of fetches
D#GR	GRANT	Total number of grants
D#IN	INSERTS	Total number of inserts
D#LS	LCK SHR	Total number of locks shared
D#LX	LCK XCL	Total number of locks excluded
D#OP	OPEN	Total number of opens
D#PL	PLAN HEADING	Number of plans with DBRM as a member
D#PR	PREPARE	Total number of prepares
D#RE	RELEASE	Total number of releases
D#RL	ROLLBACK	Total number of rollbacks
D#RV	REVOKE	Total number of revokes
D#SC	SET CONNECT	Total number of set connections
D#SD	SET DEGREE	Total number of set degrees
D#SE	SELECTS	Total number of selects
D#SH	SET HOST	Total number of set host variables
D#SP	SET PKGSET	Total number of set package sets
D#SS	SET SQLID	Total number of set SQL IDs
D#ST	SET	Total number of sets
D#TL	STMTS	Total number of statements in DBRM
D#TS		Total number of selects
D#UP	UPDATES	Total number of updates
D#WH	WHENEVER	Total number of whenevers
DACST	AVG STMT COST	Average statement cost

DBRMs filters (continued)

Sort	Field	Sort by ...
DBRM	DBRM	DBRM name
DCHRS	CH	Whether or not CCS ID for SBCS data = 290
DCOMM	CO	Decimal point representation
DDC31	DE	Whether or not DEC31 was in effect
DEXDT	EXPLAIN DATE/TIME	EXPLAIN date and time
DHLNG	HL	Host language used
DLIB	LIBRARY	DBRM library
DMCST	MAX STMT COST	Maximum statement cost
DMISS	STMTS	Whether or not the extract discarded any statements
DMIXD	MX	Whether or not mixed data is in effect
DPCDT	PRECOMPILE DATE/TIME	Precompile date/time
DPLN	PLAN HEADING	Plan name
DQUOT	QU	SQL string delimiter
DTCST	TOTAL STMT COST	Total statement cost
DVER	VERSION	DBRM version identifier
DVRF	VL	Whether or not DBRMs have been verified

Explain

Explain filters

Filter	Field	Filter on ...
EACCS	ACCS	Access type
EACCS	ACCESS INFO	Access type
EADG	ACC DEG	Access degree
EAID	ACC PID	Access parallel group ID
ECHA	(Changed statements identifier)	Has statement text been modified by the user?
ECOL	COLLECTION	Collection ID
ECOL	COLLECTION ID	Collection ID
ECOLF	FN	Column function evaluation
ECORR	CORR=	Plan table correlation name
EDBRM	DBRM/PACKAGE/ NAME	Program name
EERR	ME	Error occurred
EEXME	E M	EXPLAIN method
EGRP	GROUP MEMBER	Group member name
EICR	CREATEBY	Access creator
EIX	INDEX NAME	Access name
EJDG	JOI DEG	Join degree
EJID	JOI PID	Join parallel group ID
EJTYP	J T =	Join type
ELCKM	LCK	Table space lock mode
EMATC	MTCL	Match columns
EMETH	ME	Method
EMJCO	MJ CL	Plan table merge join
EMXOP	MXOP	MIX operation sequence
ENDXO	IX	Index only
EORNO	STMT NO.	Actual original statement number
EPLN	PLAN	Application plan name
EPLNO	PLN NO.	Plan number

Explain filters (continued)

Filter	Field	Filter on ...
EPMOD	P M	Plan table parallelism mode
EPRAN	P R =	Page range
EPREF	PF	Prefetch
EQBNO	QBNO	Query block number
EQYNO	STMT NO.	Query number
ESCID	SRC ID	Plan table sortc parallel group ID
ESNID	SRN ID	Plan table sortn parallel group ID
ESRCG	SRTC G	Sort C group
ESRCJ	SRTC J	Sort C join
ESRCO	SRTC O	Sort C order
ESRCU	SRTC U	Sort C unique
ESRNG	SRTN G	Sort N group
ESRNJ	SRTN J	Sort N join
ESRNO	SRTN O	Sort N order
ESRNU	SRTN U	Sort N unique
ETBL	TBL	Table name
ETBNO	(FROM clause table identifier)	Table number
ETCMI	(Statement cost discrepancy identifier)	Statement costs
ETCR	CREATEBY	Creator
ETCST	STATEMENT COST	Total statement cost

Explain History

Explain History filters

Filter	Field	Filter on ...
HDVER	VERSION	Version identifier of DBRM or package
HERR	ERROR	Type of error occurring during EXPLAIN
HETYP	TYPE	EXPLAIN type
HEXDT	EXPLAIN DATE/TIME	EXPLAIN timestamp
HNAME, HDBRM	NAME	DBRM or package name
HPCDT	PRECOMPILE DATE/TIME	Precompile timestamp
HTCST	STMT COST	Total statement cost
HVER	VERSION	Version of DBRM or package

EXPLAIN History sorts

Sort	Field	Sort on ...
HDBRM	NAME	DBRM or package name (in the same EXPLAIN timestamp order as NAME)
HEXDT	EXPLAIN DATE/TIME	EXPLAIN timestamp
HNAME	NAME	DBRM or package name (in the opposite EXPLAIN timestamp order to NAME)
HPCDT	PRECOMPILE TIMESTAMP	Precompile timestamp
HTCST	STMT COST	Total statement cost

Host Variables

Host Variable filters

Filter	Field	Filter on ...
HLENG	LENGTH	Length of host variable
HOST	HOST VARIABLE NAME	Name of host variable
HSCAL	SCALE	Scale of host variable
HTYPE	DATA TYPE	Data Type of host variable

Libraries

Libraries sorts

Sort	Field	Sort by ...
L#ALL	ALL	Number of DBRM and package members
L#DBR	DBRM	Number of DBRM members
L#PKG	PKG	Number of package members
LLIB	LIBRARY NAME	Library name
LSTAT	STATUS	Status, library name

Libraries filters

Filter	Field	Filter on ...
L#ALL	ALL	Number of DBRM and package members in library
L#DBR	DBRM	Number of DBRM members in library
L#PKG	PKG	Number of package members in library
LERR	LERR	Error status
LLIB	LIBRARY NAME	Library name
LSTAT	STATUS	Library status

Packages

Packages sorts

Sort	Field	Sort by ...
K#DC	DECLARE CURSOR	Number of declare cursors
K#DL	DELETES	Number of deletes
K#IN	INSERTS	Number of inserts
K#LS	LCK SHR	Number of locks shared
K#LX	LCK XCL	Number of locks excluded
K#SE	SELECTS	Number of selects
K#TL	STMTS	Number of total statements
K#TS		Number of selects + declare statements
K#UP	UPDATES	Number of updates
KACST	AVERAGE STMT COST	Average statement cost
KAVS	AVSIZE	Average size
KBDT	BIND DATE/TIME	Bind date/time, package
KCOL	COLLECTION	Collection ID, package
KCR	CREATOR	Package creator, package
KCRDT	CREATED	Created date/time, package
KGRP	GROUP MEMBER	The DB2 data sharing member name of the DB2 subsystem that performed the most recent BIND.
KKSZ	PKSIZE	Package size
KMCST	MAXIMUM STMT COST	Maximum statement cost
KOWN	OWNER	Owner, package
KPACK	PACKAGE	Package name
KPCDT	PRECOMPILE DATE/TIME	Precompile date/time, package
KQLF	QUALIFIER	Qualifier, package
KTCST	TOTAL STMT COST	Total statement cost

Packages filters

Filter	Field	Filter on ...
K#AL	ALTER	Total number of alters
K#CA	CALL	Total number of CALL statements
K#CL	CLOSE	Total number of closes
K#CM	COMMIT	Total number of commits
K#CN	CONNECT	Total number of connects
K#CR	CREATE	Total number of creates
K#DC	DECLARE CURSOR	Total number of declare cursors
K#DL	DELETES	Total number of deletes
K#DM	DECLARE STATEMENTS	Total number of declare statements
K#DR	DROP	Total number of drops
K#DS	DESCRIBE	Total number of describes
K#DT	DECLARE TABLE	Total number of declare tables
K#EC	EXECUTE	Total number of executes
K#EX	EX	Total number of EXPLAINS
K#FT	FETCH	Total number of fetches
K#GR	GRANT	Total number of grants
K#IN	INSERTS	Total number of inserts
K#LS	LCK SHR	Total number of locks shared
K#LX	LCK XCL	Total number of locks excluded
K#OP	OPEN	Total number of opens
K#PR	PREPARE	Total number of prepares
K#RE	RELEASE	Total number of releases
K#RL	ROLLBACK	Total number of rollbacks
K#RV	REVOKE	Total number of revokes
K#SC	SET CONNECT	Total number of set connections
K#SD	SET DEGREE	Total number of set degrees
K#SE	SELECTS	Total number of selects
K#SH	SET HOST	Total number of set host variables
K#SP	SET PKGSET	Total number of set package sets

Packages filters (continued)

Filter	Field	Filter on ...
K#SR	SET RULES	Total number of SET CURRENT RULES SQL statements
K#SS	SET SQLID	Total number of set SQL IDs
K#ST	SET	Total number of sets
K#TL	STMTS	Total number of statements
K#TS		Total number of selects
K#UP	UPDATES	Total number of updates
K#WH	WHENEVER	Total number of whenevers
KASCT	AVERAGE STMT COST	Average statement cost
KAVS	AVSIZE	Average size
KBDT	BIND DATE/TIME	Bind date/time
KCOL	COLLECTION	Collection
KCOMM	CO	Whether or not a comma is used for decimal in SQL
KCR	CREATOR	Creator
KCRDT	CREATED	Created by date/time
KDC31	DE	Whether or not DC31 was in effect at precompile
KDEGR	DG	Degree option
KDEGR	DEGREE	Degree option
KDFP	DP	Current data option
KDYNR	DYNAMICRULES	DYNAMICRULES option used when the package was bound
KEXDT	EXPLAIN DATE/TIME	EXPLAIN date/time
KFRE	FREED?	Whether or not package has been freed
KGRP	GROUP MEMBER	The DB2 data sharing member name of the DB2 subsystem that performed the most recent BIND.
KHLNG	HL	Host language
KISO	IS	Isolation level
KKSZ	PKSIZE	Package size
KLIB	LIBRARY	Library
KMCST	MAXIMUM STMT COST	Maximum statement cost
KMIXD	MX	Whether or not mixed data was present at precompile

Packages filters (continued)

Filter	Field	Filter on ...
KOPR	OP	Whether or not package can be allocated
KOWN	OWNER	Owner
KPACK	PACKAGE	Package name
KPCDT	PRECOMPILE DATE/TIME	Precompile date/time
KQLF	Qualifier	Implicit qualifier
KQUOT	QU	SQL string delimiter
KRLS	RE	Value used for release
KRMT	RM	Source of the package
KSERR	SE	SQL error option
KSYEN	SYSENTRY	System entries
KTCST	TOTAL STMT COST	Total statement cost
KTOK	CONTOKEN	Consistency token
KVER	VERSION	Version
KVLD	VD	Whether or not package is valid
KVRF	VL	Whether or not package has been verified
KVLT	VA	Whether or not validity checking can be deferred
KXPL	EX	Whether or not to EXPLAIN at bind

Package Connections

Package Connections sorts

Sort	Field	Sort by ...
KCNN	CONNECT	Connection, system name
KENA	ENABLE	Enabled indicator, system name
KSYS	SYSTEM	System name

Plans

Plans sorts

Sort	Field	Sort by ...
P#DB	COUNT	Number of DBRMs in plan
D#DB	DBRMs	Number of DBRMs in plan
P#DC	DCL CSR	Number of declare cursors
P#DC	DECLARE CURSOR	Number of declare cursors
P#DL	DELETES	Number of deletes
P#DP	COUNT	Number of DBRMs/packages in plan
P#IN	INSERTS	Number of inserts
P#KA	PACKAGES	Number of packages in plan
P#LS	LOCK SHR	Number of locks shared
P#LX	LOCK XCL	Number of locks excluded
P#SE	SELECTS	Number of selects
P#TL	STMTS	Number of total statements
P#TS		Number of selects + declare cursors
P#UP	UPDATES	Number of updates
PAVS	AVG SIZE	Average size
PBBY	BOUND BY	Bound by, plan number
PBDT	BIND DATE	Bind date/time, plan name
PCHSZ	CACHESZ	Cache size
PCR	CREATOR	Creator, plan name
PGRP	GROUP MEMBER	The DB2 data sharing member name of the DB2 subsystem that performed the most recent BIND.
PLAN	PLAN	Plan name
PPSZ	PLSIZE	Base size, plan name
PQLF	QUALIFIER	Qualifier, plan name

Plans filters

Filter	Field	Filter on ...
P#AL	ALTER	Total number of alters
P#CA	CALL	Total number of CALL statements
P#CL	CLOSE	Total number of closes
P#CM	COMMIT	Total number of commits
P#CN	CONNECT	Total number of connects
P#CR	CREATE	Total number of creates
P#DB	COUNT	Number of DBRMs
P#DB	DBRMs	Number of DBRMs
P#DC	DCL CSR	Total number of declare cursors
P#DC	DECLARE CURSOR	Total number of declare cursors
P#DL	DELETES	Total number of deletes
P#DM	DECLARE STATEMENT	Total number of declare statements
P#DP	COUNT	Number of DBRMs and packages
P#DR	DROP	Total number of drops
P#DS	DESCRIBE	Total number of describes
P#DT	DECLARE TABLE	Total number of declare tables
P#EC	EXECUTE	Total number of executes
P#EX	EXPLAIN	Total number of EXPLAINS
P#FT	FETCH	Total number of fetches
P#GR	GRANT	Total number of grants
P#IN	INSERTS	Total number of inserts
P#KA	PACKAGES	Number of packages
P#LS	LOCK SHR	Total number of locks shared
P#LX	LOCK XCL	Total number of locks excluded
P#OP	OPEN	Total number of opens
P#PR	PREPARE	Total number of prepares
P#RE	RELEASE	Total number of releases
P#RL	ROLLBACK	Total number of rollbacks
P#RV	REVOKE	Total number of revokes

Plans filters (continued)

Filter	Field	Filter on ...
P#SC	SET CONNECT	Total number of set connections
P#SD	SET DEGREE	Total number of set degrees
P#SE	SELECTS	Total number of selects
P#SH	SET HOST	Total number of set host variables
P#SP	SET PKGSET	Total number of set package sets
P#SR	SET RULES	Total number of SET CURRENT RULES SQL statements
P#SS	SET SQLID	Total number of set SQL IDs
P#ST	SET	Total number of sets
P#TL	STMTS	Total number of statements
P#TS		Total number of selects
P#UP	UPDATES	Total number of updates
P#WH	WHENEVER	Total number of whenevers
PACQ	AC	When resources are acquired
PAVS	AVGSIZE	Average size of plan selection processed at bind time
PBBY	BOUND BY	Bound by ID
PBDT	BIND DATE	Bind time
PBDT	BIND TIME	Bind time
PCHSZ	CACHESZ	Cache size in bytes
PCR	CREATOR	Creator ID
PD#AL	ALTER	Total number of alters
PD#CA	CALL	Total number of CALL statements in the DBRMs included in the plan
PD#CL	CLOSE	Total number of closes
PD#CM	COMMIT	Total number of commits
PD#CN	CONNECT	Total number of connects
PD#CR	CREATE	Creates
PD#DC	DECLARE CURSOR	Total number of declare cursors

Plans filters (continued)

Filter	Field	Filter on ...
PD#DL	DELETES	Total number of deletes
PD#DM	DECLARE STATEMENT	Total number of declare statements
PD#DR	DROP	Total number of drops
PD#DS	DESCRIBE	Total number of describes
PD#DT	DECLARE TABLE	Total number of declare tables
PD#EC	EXECUTE	Total number of executes
PD#EX	EXPLAIN	Total number of EXPLAINS
PD#FT	FETCH	Total number of fetches
PD#GR	GRANT	Total number of grants
PD#IN	INSERTS	Total number of inserts
PD#LS	LOCK SHR	Total number of locks shared
PD#LX	LOCK XCL	Total number of locks excluded
PD#OP	OPEN	Total number of opens
PD#PR	PREPARE	Total number of prepares
PD#RE	RELEASE	Total number of releases
PD#RL	ROLLBACK	Total number of rollbacks
PD#RV	REVOKE	Total number of revokes
PD#SC	SET CONNECT	Total number of set connections
PD#SD	SET DEGREE	Total number of set degrees
PD#SE	SELECTS	Total number of selects
PD#SH	SET HOST	Total number of set host variables
PD#SP	SET PKGSET	Total number of set package sets
PD#SR	SET RULES	Total number of SET CURRENT RULES SQL statements in the DBRMs included in the plan
PD#SS	SET SQLID	Total number of set SQL IDs
PD#ST	SET	Total number of sets

Plans filters (continued)

Filter	Field	Filter on ...
PD#TL	STMTS	Total number of statements from DBRMs
PD#TS		Total number of statements
PD#UP	UPDATES	Total number of updates
PD#WH	WHENEVER	Total number of whenevers
PDEGR	DG	Degree
PDEGR	DEGREE	Degree
PDFP	DP	Whether or not plan bound with preparation deferred
PDISC	DI	Whether or not disconnect option used when plan bound
PDISC	DISCONNECT	Whether or not disconnect option used when plan bound
PDYNR	DYNAMICRULES	DYNAMICRULES option used when the plan was bound
PEXPR	CD	Data currency requirement
PEXPR	EXPREDICATE	Data currency requirement
PFRE	PLAN FREED?	Whether or not plan was freed
PGRP	GROUP MEMBER	The DB2 data sharing member name of the DB2 subsystem that performed the most recent BIND.
PISO	IS	Isolation level
PK#AL	ALTER	Total number of alters
PK#CA	CALL	Total number of CALL statements in the packages included in the plan
PK#CL	CLOSE	Total number of closes
PK#CM	COMMIT	Total number of commits
PK#CN	CONNECT	Total number of connects
PK#CR	CREATE	Total number of creates

Plans filters (continued)

Filter	Field	Filter on ...
PK#DC	DECLARE CURSORS	Total number of declare cursors
PK#DL	DELETES	Total number of deletes
PK#DM	DECLARE STATEMENT	Total number of declare statements
PK#DR	DROP	Total number of drops
PK#DS	DESCRIBE	Total number of describes
PK#DT	DECLARE TABLE	Total number of declare tables
PK#EC	EXECUTE	Total number of executes
PK#EX	EXPLAIN	Total number of EXPLAINS
PK#FT	FETCH	Total number of fetches
PK#GR	GRANT	Total number of grants
PK#IN	INSERTS	Total number of inserts
PK#LS	LCK SHR	Total number of locks shared
PK#LX	LOCK XCL	Total number of lock excluded
PK#OP	OPEN	Total number of opens
PK#PR	PREPARE	Total number of prepares
PK#RE	RELEASE	Total number of releases
PK#RL	ROLLBACK	Total number of rollbacks
PK#RV	REVOKE	Total number of revokes
PK#SC	SET CONNECT	Total number of set connections
PK#SD	SET DEGREE	Total number of set degrees
PK#SE	SELECTS	Total number of selects
PK#SH	SET HOST	Total number of set host vars
PK#SP	SET PKG SET	Total number of set package sets
PK#SR	SET RULES	Total number of SET CURRENT RULES statements in the packages included in the plan
PK#SS	SET SQLID	Total number of set sqlids
PK#ST	SET	Total number of sets

Plan Connections

Plan Connections sorts

Sort	Field	Sort by ...
PK#TL	STMTS	Total statements from packages
PK#TS		Total number of selects
PK#UP	UPDATES	Total number of updates
PK#WH	WHENEVER	Total number of whenevers
PLAN	PLAN	Plan name
POPR	OP	Whether or not plan is operative
PPLEN	PLENTRIES	Number of package list entries
PPSZ	PL SIZE	Plan size in bytes
PQLF	QUALIFIER	Qualifier
PRLS	RE	When resources are released
PSQLR	SQ	Plan SQL rules option
PSRV	SERVER	Server
PSYEN	SYSENTRIES	Number of connections
PVLD	VD	Whether or not plan is valid
PVLT	VA	Whether or not validity is deferred until run time
PVRF	VL	Whether or not plan has been verified
PXPL	EX	Whether or not to EXPLAIN at bind
PENA	ENABLE	Enabled indicator
PCNN	CONNECT	Connection, system name
PSYS	SYSTEM	System name

Plan Package List

Plan Package List sorts

Sort	Field	Sort by ...
PCOL	COLLECTION ID	Location name
PLOC	LOCATION	Location name
PPKG	PACKAGE	Package ID, location name
PSEQ	SEQNO	Sequence number, package ID

Statements

Statements filters

Filter	Field	Filter on ...
SCHA	CH	Has the statement text been modified by the user?
SCURS	SQL TEXT	Statement cursor name
SDBRM	DBRM/PACKAGE/ PLAN/TABLE NAME	DBRM, package or PDS member name
SEXPL	SQL TEXT	Whether or not the statement is EXPLAINable
SISO	ISOLATION	Isolation level of the statement
SORNO	C H	Original statement number
STEXT	SQL TEXT	Text contained in statement
SSTNO	STMTNO	Statement number
SSTTY	SQL TEXT	Statement type

Tables

Tables sorts

Sort	Field	Sort by ...
T#DL	DELETES	Number of deletes
T#IN	INSERTS	Number of inserts
T#LS	LOCK SHRS	Number of shared locks
T#LX	LOCK XCLS	Number of excluded locks
T#SE	SELECTS	Number of selects
T#TL	TOTAL STMT	Number of total statements
T#UP	UPDATES	Number of updates
TCR	CREATOR	Table creator, table name
TLOC	LOCATION	Table location, table name
TTBL	NAME	Table name

Tables filters

Filter	Field	Filter on ...
T#DL	DELETES	Total number of deletes
T#IN	INSERTS	Total number of inserts
T#LS	LOCK SHRS	Total number of locks shared
T#LX	LOCK XCLS	Total number of locks excluded
T#SE	SELECTS	Total number of selects
T#TL	TOTAL STMT	Total number of statements
T#UP	UPDATES	Total number of updates
TCR	CREATOR	Table creator ID
TLOC	LOCATION	Table location
TTBL	NAME	Table name

Appendix F. Candle Customer Support

Introduction

Candle Corporation offers a comprehensive maintenance and support plan to ensure you realize the greatest value possible from your Candle software investments. We have more than 200 technicians worldwide, committed to providing you with prompt resolutions to your support requests.

Customer Support hours of operation are from 5:30 A.M. to 5:00 P.M., Pacific Time. In the event of an after-hours or weekend emergency, Candle's computerized call management system ensures that a technician will return your call within one hour. For customers located outside of North America, after-hours and weekend support is provided by Candle Customer Support locations in the United States.

Electronic Support

Candle provides information and support services using

- Candle's home page at www.candle.com. You can use the Candle Web site to
 - open problem records
 - access maintenance information
 - order products or maintenance
 - access IBM compatibility information
 - download fix packs for distributed products
 - read news and alerts
 - scan a list of scheduled Candle education classes
- Candle Electronic Customer Support (CECS), an electronic customer support facility. You can access this facility through the IBM Global Network. You can use CECS to
 - open problem records
 - search our database for solutions to known problems
 - look for answers to commonly asked questions
 - read news and alerts
 - scan a list of scheduled Candle education classes

Both CECS and the Candle Web site are available 24 hours a day, 7 days per week.

Telephone Support

Our support network consists of product specialists who work with you to solve your problem.

Candle uses an online problem management system to log and track all support requests. Your request is immediately routed to the appropriate technical resource.

When you call to report a problem, please have the following information:

- your Candle personal ID (PID) number
- the release level of the Candle product
- the release level of IBM or other vendor software
- identifying information and dates of recently applied maintenance to your Candle product or IBM product
- a detailed description of the problem (including the error message) and the events preceding the problem
- a description of any unusual events that occurred before the problem

Customer Support Phone Numbers

	Telephone	Fax
North America	(800) 328-1811	
	(310) 535-3636	(310) 727-4204
Europe		
Belgium/Luxembourg	+32 (0) 3 270 95 60	+32 (0) 3 270 95 41
France	+33 (0) 1 53 61 60 60	+33 (0) 1 53 61 06 16
Germany/Switzerland/ Austria	+49 (0) 89 54 554 333	+49 (0) 89 54 554 170
Italy - Freephone	800 780992	
Netherlands	+31 (0) 30 600 35 50	+31 (0) 30 600 35 10
Scandinavia	+46 (0)8 444 5940	+46 (0)8 623 1855
U.K.	+44 (0)161 437 5224	+44 (0)161 437 5225
(Southern Europe, Middle East and South Africa Agents call U.K.)		
Asia Pacific - English Hub		+61 2 9954 1818
Australia	+61 2 8912 9898	
Hong Kong	800 908 457	
India	+61 2 8912 9898	
Indonesia	0018 03061 2061	
Malaysia	1800 803 459	
New Zealand	0800 449 596	
Philippines	1800 1612 0096	
Singapore	800 616 2075	
Thailand	0018 00612 1045	
Asia Pacific - Japanese Hub	+81 3 3595 7150	+81 3 3595 7110
Asia Pacific - Korean Hub	+82 2 552 8744	+82 2 552 8746
Asia Pacific - Mandarin Hub	+88 62 2739 3223	+88 62 2378 5993
Asia Pacific e-mail address: ap_support@candle.com		

When your local support office is unavailable, you can contact Candle's North America support center. If USADirect® service is available in your country, use the 800 telephone number. If USADirect service is not available, ask your international operator for assistance in calling Candle's local (310) number.

Incident Documentation

You may be asked to send incident documentation to the Candle Customer Support Center. On the outside of all packages you send, please write the incident number given to you by the Customer Support representative.

Send tapes containing the incident information to the following address, unless directed otherwise by your Customer Support representative:

Candle Customer Support
Candle Support Center, *Incident number*
201 North Douglas Street
El Segundo, CA 90245

Send all other relevant documentation, such as diskettes or paper documentation, to the address provided by your Customer Support representative.

Ensuring Your Satisfaction with Customer Support

Candle Customer Support is committed to achieving high customer satisfaction ratings in all areas. These include

- connecting you to a support representative promptly
- providing you with the appropriate fixes
- answering support questions
- filling your shipping orders
- supplying documentation

If you have a concern that has not been resolved to your satisfaction, you can open a complaint ticket. All tickets are logged and tracked to ensure responsiveness and closure. Using the ticket information, a manager will contact you promptly to resolve your problem.

Index

Special Characters

!DB/EXPLAIN Configuration Information
 !DB/Tools DB2 Configuration Information panel
 !DB/Tools Global Configuration Information panel
 !DB/Tools Profile Dataset List panel
 []
 documentation conventions 12
 { }
 documentation conventions 12
 # GNRS field
 on the Extract History panel 150
 %
 documentation conventions 11

A

AC (Acquire) field
 on the Plans panel 193
 ACC DEG field
 on the EXPLAIN Compare panel 105
 on the EXPLAIN panel 138
 ACC PID field
 on the EXPLAIN Compare panel 105
 on the EXPLAIN panel 138
 ACCESS (Access) field
 on the EXPLAIN Compare panel 138
 ACCESS field
 on the EXPLAIN panel 105
 access path
 inaccurate 56, 290
 ACCESS PATH field
 on the EXPLAIN panel 105
 access path information 95
 access path summary data 95
 Accounting Reports (OMEGAMON II for DB2) 187
 ACCS (Access) field
 on the EXPLAIN Compare panel 138
 ACQUIRE field 34
 on the BIND/REBIND Plan panel 34
 on the EXPLAIN panel 105
 on the Plan BIND Overrides panel 342

ACQUIRE field (*continued*)
 on the Plans panel 193
 ACTION field
 on the Package Bind Overrides panel 330
 on the Plan Bind Overrides panel 342
 ACTION on Package field
 on the BIND/REBIND Package panel 26
 ACTION ON PLAN field 34
 on the BIND/REBIND Plan panel 34
 ADDITIONAL datasets? field
 on the Online Menu panel 161
 ADG (Number of Access Degrees) field
 on the Statement Costs panel 52
 Administration Menu 21
 Adobe portable document format 9
 ALL field
 on the Libraries panel 158
 ALL SQL field
 on the SQL Formats for KTEXPL panel 380
 ALTER field
 from DBRMs 193
 from packages 193
 on the DBRMs panel 60
 on the Packages panel 172
 on the Plans panel 193
 ALTER SQL TO AVOID -117 field
 on the EXPLAIN Defaults panel 304
 ALTER SQL TO AVOID -417/-418 field
 on the EXPLAIN Defaults panel 304
 ALTERED field
 on the EXPLAIN panel 105
 ALERTS field
 on the Estimator panel 71
 on the Whatif panel 250
 AMOUNT OF DATA TO GATHER field
 on the Estimator panel 71
 on the Whatif panel 250
 AMOUNT OF STATISTICS TO GATHER field
 on the EXPLAIN Defaults panel 304
 AND/OR
 on the Selection Masking panel 370
 appendixes 385
 application plans
 on the PLANS panel 200

Index

- Application Trace Facility (OMEGAMON II for DB2) 187
- AUDIT field
 - on the Estimator panel 71
 - on the EXPLAIN panel 106
 - on the Whatif panel 250
- AVERAGE SIZE field
 - on the EXPLAIN panel 106
 - on the Packages panel 172
- AVERAGE STMT COST field
 - on the Packages panel 172
 - on the Statement Costs panel 52
- AVG STMT COST field
 - on the DBRMs panel 60
- AVGSIZE field
 - on the Plans panel 193
- AVSIZE field
 - on the EXPLAIN panel 106
 - on the Packages panel 172
- B**
- batch processing
 - caution when using CEXPL 48
 - CEXPL, caution when using 48
 - comparing explains using CEXPL 48
 - use of the CEXPL command
 - print implied in batch 48
- BATCH RC field
 - on the Recommendations Panel 1 351
 - on the Recommendations Panel 2 353
 - on the Recommendations Panel 3 355
 - on the Recommendations Panel 4 357
 - on the Recommendations Panel 5 359
 - on the Recommendations Panel 6 361
 - on the Recommendations Panel 7 363
 - on the Recommendations Panel 8 365
 - on the Recommendations Panel 9 367
- BATCH WARNING RETURN CODE
 - on the Miscellaneous Defaults panel 323
- BIND COMPARE ALL PACKAGES INCLUDED IN PLAN? field
 - on the BIND Compare Options panel 278
- BIND Compare Options 277
- BIND COPY field
 - on the Package BIND Overrides panel 330
- BIND data 95
- BIND DATE field
 - on the EXPLAIN panel 106
 - on the Plans panel 193
- BIND DATE/TIME field
 - on the Packages panel 172
- BIND OPTIONS FOR COMPARE field
 - on the BIND Compare Options panel 278
- BIND or REBIND field 34
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
- BIND TIME field
 - on the EXPLAIN panel 106
 - on the Plans panel 193
- BIND/REBIND Package panel 23
- BIND/REBIND Plan panel 29
- BLANK LINE AFTER STATEMENTS field
 - on the Miscellaneous Defaults panel 323
- BookManager 14
- BOUND BY field
 - on the EXPLAIN panel 106
 - on the Plans panel 193
- BOUND field
 - on the EXPLAIN panel 106
- BPOOL field
 - on the Estimator panel 71
 - on the EXPLAIN panel 106
 - on the Whatif panel 250
- Build Tuning Parameters panel 281
- BYPASS STATEMENTS DISPLAY? field
 - on the SQL Defaults panel 378
- bytes, cache 193
- bytes, plan section
 - See* AVGSIZE field
- C**
- C H field
 - on the EXPLAIN panel 106
- Cache Size field 34
 - on the BIND/REBIND Plan panel 34
 - on the EXPLAIN panel 106
 - on the Plan BIND Overrides panel 342
 - on the Plans panel 193
- CACHESZ (CACHE SIZE) field 34, 342
 - on the Plans panel 193
- CALL field
 - on the DBRMs panel 60
 - on the Packages panel 172
 - on the Plans panel 193

- Candle Electronic Customer Support (CECS) 451
- CARD field
 - on the Estimator panel 71
 - on the EXPLAIN panel 106, 107
 - on the Whatif panel 250
- CARDP field
 - on the Estimator panel 71
 - on the Whatif panel 250
- CARDP field (TSTP)
 - on the EXPLAIN panel 107
- catalog
 - catalog prefix field 245
 - prefix of real catalog 325
 - procedure for update when using shadow 245
- CATALOG EXTRACT dataset BUFFERS field
 - on the VSAM Tuning Parameters panel 383
- CATALOG EXTRACT dataset INDEX BUFFERS field
 - on the VSAM Tuning Parameters panel 383
- CATALOG field
 - on the !DB/EXPLAIN Configuration Information panel 289
- CATALOG OWNER field
 - on the Extract History panel 150
- catalog prefix
 - of real catalog 325
- catalog prefix field
 - of real catalog 245
 - on the !DB/Tools DB2 Configuration Information panel 291
- catalog, real
 - prefix 292
- catalog, shadow
 - vs. real catalog 245, 325
 - vs. real catalog prefix 292
- CD field
 - on the Plans panel 194
- CEXPL
 - compared to IMPACT 47
- CEXPL command
 - print implied in batch 48
 - use in batch 48
- CH (Charset) field
 - on the DBRMs panel 60
 - on the Packages panel 172
- Changed statement identifier
 - on the EXPLAIN panel 107
 - on the Statements panel 217
- CHARACTER TO USE FOR BOX CORNERS field
 - on the Miscellaneous Defaults panel 323
- CHARACTER TO USE FOR BOX SIDES field
 - on the Miscellaneous Defaults panel 323
- CHARACTER TO USE FOR BOX TOPS field
 - on the Miscellaneous Defaults panel 323
- Charset field
 - on the DBRMs panel 60
 - on the EXPLAIN panel 107
 - on the Packages panel 172
- CHECKFLAG field
 - on the Estimator panel 72
 - on the EXPLAIN panel 107
 - on the Whatif panel 251
- CHECKS field
 - on the Estimator panel 72
 - on the EXPLAIN panel 107
 - on the Whatif panel 251
- CHILD field
 - on the Estimator panel 72
 - on the EXPLAIN panel 107
 - on the Whatif panel 251
- CKFLAG field
 - on the Estimator panel 72
 - on the Whatif panel 251
- CKRID field
 - on the Estimator panel 72
 - on the EXPLAIN panel 108
 - on the Whatif panel 251
- CLIST Library
 - on the !DB/Tools Global Configuration Information panel 294
- CLOSE field
 - from DBRMs 194
 - from packages 194
 - on the DBRMs panel 60
 - on the Packages panel 172
 - on the Plans panel 194
- CLOSERULE field
 - on the Estimator panel 72, 73
 - on the EXPLAIN panel 108
 - on the Whatif panel 251
- CLUSTERED field
 - on the Estimator panel 73
 - on the EXPLAIN panel 108
 - on the Whatif panel 252
- CLUSTERING field
 - on the Estimator panel 73
 - on the EXPLAIN panel 108

- CLUSTERING field (*continued*)
 - on the Whatif panel 252
- CLUSTERTYPE field
 - on the Estimator panel 73
 - on the EXPLAIN panel 109
 - on the Whatif panel 252
- CLUSTRATIO field
 - on the Estimator panel 73
 - on the EXPLAIN panel 109
 - on the Whatif panel 252
- CLUSTRATIO (IXP) field
 - on the EXPLAIN panel 109
- CNTL dataset field
 - on the !DB/Tools Global Configuration Information panel 294
- CO (Comma) field
 - on the DBRMs panel 60
 - on the Packages panel 172
- COLCARD
 - on the Table Columns panel 230
- COLCOUNT field
 - on the Estimator panel 73
 - on the EXPLAIN panel 109
 - on the Whatif panel 252
- COLLECTION field 34
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
 - on the Collections panel 40
 - on the EXPLAIN Compare panel 138
 - on the EXPLAIN panel 109
 - on the Package BIND Overrides panel 330
 - on the Packages panel 172
- COLLECTION ID field 186
 - on the BIND/REBIND Package panel 26
 - on the EXPLAIN panel 109
 - on the Plan Package List panel 186
- COLLECTION ID PREFIX field
 - on the !DB/Tools DB2 Configuration Information panel 291
- COLLECTION SPECIFICATION field
 - on the Package Bind Overrides panel 330
 - on the Plan Bind Overrides panel 342
- COLLECTION TO USE FOR PACKAGE BIND COMPARE field
 - on the BIND Compare Options panel 278
- Collections panel 39
- COLLID field
 - on the Verification panel 244
- COLNO field
 - on the Table Columns panel 230
- colons
 - in host variables 311
- COLTYPE
 - on the Table Columns panel 230
- Column Distribution Statistics 42
- Column Distribution Statistics panel 42
- Column Distribution Statistics panels
 - KTE3CDSE 41
 - KTEPCDIS 41
- COLUMN=
 - on the Column Distribution Statistics panel 43
- COLUMNNAME field
 - on the Keys panel 154
- COLUMNNO field
 - on the Keys panel 154
- COLUMNNO SEQ field
 - on the Keys panel 154
- Comma field
 - on the DBRMs panel 60
 - on the EXPLAIN panel 109
 - on the Packages panel 172
- commands
 - CEXPL vs. IMPACT 47
 - documentation conventions 11
 - matrix showing availability 387
- COMMENT BEG DEL field
 - on the SQL Formats for KTEXPL panel 380
- COMMENT COLUMN field
 - on the SQL Formats for KTEXPL panel 380
- COMMENT END DEL field
 - on the SQL Formats for KTEXPL panel 380
- COMMIT EXECUTED SQL STATEMENTS field
 - on the SQL Defaults panel 378
- COMMIT field
 - from DBRMs 194
 - from Packages 194
 - on the DBRMs panel 60
 - on the Packages panel 172
 - on the Plans panel 194
- COMPARE DBRM NAMES field
 - on the BIND Compare Options panel 278
 - on the Compare Options panel 285
- compare history
 - and use of CEXPL in batch 48
 - print implied in batch 48

- Compare History panel 45
- Compare Options 284
- COMPARE STATEMENT NUMBERS field
 - on the BIND Compare Options panel 278
 - on the Compare Options panel 285
- COMPRESS field
 - on the Estimator panel 74
 - on the Whatif panel 252
- COMPRESS field (TSTP)
 - on the EXPLAIN panel 109
- CONCATENATION CHARACTER field
 - on the EXPLAIN/SQL Defaults panel 311
- CONNECT field 165
 - from DBRMs 194
 - from Packages 194
 - on the DBRMs panel 60
 - on the Package Connections panel 165
 - on the Packages panel 172
 - on the Plan Connections panel 184
 - on the Plans panel 194
- CONNECTION field 34
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
- CONSIDER PACKAGES SAME WHEN field
 - on the Miscellaneous Defaults panel 323
- CONT. COLUMN field
 - on the SQL Formats for EXPL panel 380
- CONTOKEN field
 - on the DBRMs panel 60
 - on the EXPLAIN panel 109
 - on the Packages panel 173
- conventions, documentation 10
 - braces 11
 - brackets 11
 - data set names 11
 - identifiers 11
 - italics 11
 - qualifiers 11
 - related to figures 11
 - related to panels 11
- CONVERT QUOTES field
 - on the EXPLAIN/SQL Defaults panel 311
- converting a DBRM to a packages 56
- CORR= field
 - on the EXPLAIN Compare panel 138
 - on the EXPLAIN panel 109
- Cost field discrepancy identifier
 - on the EXPLAIN panel 110
- Costs panel 49
- COSTS1 field
 - on the Data Formats panel 287
- COSTS2 field
 - on the Data Formats panel 287
- COUNT field
 - on the Data Formats panel 287
 - on the Exceptions panel 94
 - on the Plans panel 195
- CREATE BATCH JCL? field
 - on the Online Menu panel 161
- CREATE field
 - from DBRMs 195
 - from Packages 195
 - on the DBRMs panel 60
 - on the Packages panel 173
 - on the Plans panel 195
- CREATEBY field
 - on the Estimator panel 74
 - on the EXPLAIN panel 110
 - on the Whatif panel 252, 253
- CREATED field
 - on the EXPLAIN panel 110
 - on the Packages panel 173
- CREATETS field
 - on the Estimator panel 74
 - on the Whatif panel 253
- CREATOR field 241
 - from packages 110
 - from plans 110
 - on the Estimator panel 74
 - on the EXPLAIN panel 110
 - on the Packages panel 173
 - on the Plans panel 195
 - on the Tables panel 241
 - on the Whatif panel 253
- CREATOR OPTION field
 - on the Set Defaults panel 375
- CURRENT DEGREE field
 - on the Statement Summary panel 217
- CURRENTDATA field 34
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
 - on the Package BIND Overrides panel 331
 - on the Plan BIND Overrides panel 342
- CURRENTSERVER
 - on the Plan BIND Overrides panel 343
- CURRENTSERVER field 34
 - on the BIND/REBIND Plan panel 34

Index

customer support 451
customization 275
customization and housekeeping panels 273

D

D#TS field
on the DBRMs panel 60
DASH IN HOST field
on the SQL Formats for KTEXPL panel 380
Data Formats panel 286
DATA TYPE field
on the Host Variables panel 217
DATAC field
on the Estimator panel 74
on the Whatif panel 253
DATACAPTURE (TBL) field
on the EXPLAIN panel 110
dataset CONTAINING DSN1COPY field
on the !DB/Tools DB2 Configuration Information panel 291
dataset CONTAINING DSNHDECP field
on the !DB/Tools DB2 Configuration Information panel 291
dataset CONTAINING DSNTIAD field
on the !DB/Tools DB2 Configuration Information panel 291
dataset CONTAINING DSNTIAUL field
on the !DB/Tools DB2 Configuration Information panel 291
dataset CONTAINING DSNZPARM field
on the !DB/Tools DB2 Configuration Information panel 292
Dataset Name field
on the !DB/Tools Profile Dataset List panel 298
DATE field
on the Data Formats panel 287
DB2 DSNEXIT dataset field
on the !DB/Tools DB2 Configuration Information panel 292
DB2 DSNLOAD dataset field
on the !DB/Tools DB2 Configuration Information panel 292
DB2 exits
using host variables in 311
using synonyms in 311
DB2 Extract ID
on the Online Menu panel 161
DB2 LOCATION NAME field
on the !DB/Tools DB2 Configuration Information panel 292
DB2 RUNLIB dataset field
on the !DB/Tools DB2 Configuration Information panel 292
DB2 SSID field 296
on the !DB/Tools Global Information—DB2 Subsystem Name Table panel 296
DB2 SUBSYSTEM ID field
on the !DB/Tools DB2 Configuration Information panel 292
DB2 VERSION field
on the !DB/Tools DB2 Configuration Information panel 292
DB2VRM field
on the EXPLAIN History panel 147
!DB/EXPLAIN Configuration Information panel 288
!DB/EXPLAIN Configuration Information 288
KTEPHOAD 288
DBID field
on the Estimator panel 74
on the EXPLAIN panel 110
on the Whatif panel 253
DBRM field
on the DBRMs panel 60
on the EXPLAIN Compare panel 138
on the Verification panel 244
DBRM Information panel 59
DBRM Library field
on the !DB/Tools Global Configuration Information panel 294
DBRM Member field 34
on the BIND/REBIND Package panel 26
on the BIND/REBIND Plan panel 34
DBRM Member Names panel 31
DBRM NAME field
on the Statements panel 217
DBRM/PACKAGE field
on the Statement Costs panel 52
DBRM/PACKAGE NAME field
on the EXPLAIN panel 110
DBRMs
number in plan 195
number of ALTERs in 193
number of CLOSE statements in 194

- DBRMs (*continued*)
 - number of COMMITs in 194
 - number of CONNECTs in 194
 - number of CREATEs in 195
 - number of DECLARE CURSORs in 195
 - number of DECLARE STATEMENTs in 195
 - number of DECLARE TABLEs in 196
 - number of DELETEs in 196
 - number of DESCRIBEs in 196
 - number of DROPs in 197
 - number of EXECUTEs in 198
 - number of EXPLAINs in 198
 - number of FETCHes in 198
 - number of GRANTs in 199
 - number of INSERTs in 199
 - number of LCK SHRs in 199
 - number of LCK XCLs in 200
 - number of OPENs in 200
 - number of PREPAREs in 201
 - number of RELEASEs in 201
 - number of REVOKEs in 201
 - number of ROLLBACKs in 202
 - number of SELECTs in 202
 - number of SETs in 202
 - number of STMTs in 204
 - number of UPDATEs in 204
 - number of WHENEVERs in 205
 - problems with pre-V130 (1.3)
 - precompiler 56, 290
- DBRMS field
 - on the Libraries panel 158
- DBRMs panel 56
- DBRMs, converting to package 56
- DB/Tools Database field
 - on the !DB/Tools DB2 Configuration Information panel 291, 292
- !DB/Tools DB2 Configuration Information panel 290
 - !DB/Tools DB2 Configuration Information 290
 - KTBP HODB 290
- !DB/Tools Global Configuration Information panel 293
 - !DB/Tools Global Configuration Information 293
 - KTBP H OGL 293
- !DB/Tools Global Information—DB2 Subsystem Name Table 295
 - !DB/Tools Global Information—DB2 Subsystem Name Table (*continued*)
 - KTCPDBDS 295
 - !DB/Tools Global Information—DB2 Subsystem Name Table panel 295
 - !DB/Tools Profile Dataset List panel 297
 - !DB/Tools Profile Dataset List 297
 - KTCP PRF0 297
 - !DB/Tools Profile Dataset List panel 297
- DCL CSR field
 - on the Plans panel 195
- DE (Dec31) field
 - on the DBRMs panel 61
 - on the Packages panel 173
- DEALLOCATE PLAN_TABLE EXTRACT DATASET AFTER EACH USE field
 - on the VSAM Tuning Parameters panel 383
- DEALLOCATE STATEMENTS EXTRACT DATASET AFTER EACH USE field
 - on the VSAM Tuning Parameters panel 383
- Dec31 field
 - on the DBRMs panel 61
 - on the EXPLAIN panel 111
 - on the Packages panel 173
- DECIMAL POINT OPTION FOR KTEXPL field
 - on the SQL Defaults panel 378
- DECLARE CURSOR field
 - from DBRMs 195
 - from Packages 195
 - on the DBRMs panel 61
 - on the Packages panel 173
 - on the Plans panel 195
- DECLARE STATEMENT field
 - from DBRMs 195
 - from Packages 195
 - on the DBRMs panel 61
 - on the Packages panel 173
 - on the Plans panel 195
- DECLARE TABLE field
 - from DBRMs 196
 - from Packages 196
 - on the DBRMs panel 61
 - on the Packages panel 173
 - on the Plans panel 196
- DEFAULT
 - on the Table Columns panel 230
- DEFAULT REMOTE LOCATION field
 - on the Set Defaults panel 375

- DEFERPREP field 35
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 35
 - on the EXPLAIN panel 111, 173
 - on the Package BIND Overrides panel 331
 - on the Plan Bind Overrides panel 343
- DEFERPREPARE field
 - on the EXPLAIN panel 111
- DEFER(PREPARE) field
 - on the Packages panel 174
 - on the Plans panel 197
- DEFERPREPARE(Plans) field
 - on the EXPLAIN panel 112
- DEGREE field 34
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
 - on the EXPLAIN header 111
 - on the EXPLAIN panel 111
 - on the Package BIND Overrides panel 331
 - on the Packages panel 173
 - on the Plan BIND Overrides panel 343
 - on the Plans panel 196
- DELETES field 241
 - from DBRMs 196
 - from Packages 196
 - on the DBRMs panel 61
 - on the Packages panel 174
 - on the Plans panel 196
 - on the Tables panel 241
- DESCRIBE field
 - from DBRMs 196
 - from Packages 196
 - on the DBRMs panel 61
 - on the Packages panel 174
 - on the Plans panel 196
- DESCRIPTION field 296
 - on the !DB/Tools Global Information—DB2 Subsystem Name Table panel 296
 - on the Extract History panel 150
- DG field
 - on the Packages panel 174
 - on the Plans panel 196
- DI field
 - on the Plans panel 197
- DISCONNECT field 35
 - on the BIND/REBIND Plan panel 35
 - on the EXPLAIN panel 111
 - on the Plan BIND Overrides Panel 343
 - on the Plans panel 197
- DISCONNECT FROM DB2 field
 - on the EXPLAIN/SQL Defaults panel 311
- display
 - terminology: vs. panel 12
- DISPLAY BIND COMPARE CONFIRMATAION PANEL?
 - on the BIND Compare Options panel 278
- DISPLAY BIND TYPE RECOMMENDATIONS field
 - on the Recommendations Panel 0 349
- DISPLAY BUILD STATUS PANELS field
 - on the Extract Processing Defaults panel 313
- DISPLAY EXCEPTION OPTIONS PANEL? field
 - on the Exception Options panel 300
- DISPLAY EXCEPTION TYPE RECOMMENDATIONS field 349
 - on the Recommendations Panel 0 349
- DISPLAY KTEXPL SOURCE IN HEADER field
 - on the SQL Defaults panel 378
- DISPLAY MASK PANEL? field
 - on the Selection Masking panel 370
- DISPLAY MASKS? field
 - on the Primary Menu panel 210
- DISPLAY OBJECT TYPE RECOMMENDATIONS field 349
 - on the Recommendations Panel 0 349
- DISPLAY OVERRIDE PANEL FOR COMMAND? field
 - on the Package Bind Overrides panel 331
 - on the Plan Bind Overrides panel 343
- DISPLAY OVERRIDE PANEL FOR COMPARE? field
 - on the Package Bind Overrides panel 331
 - on the Plan Bind Overrides panel 343
- DISPLAY OVERRIDE PANEL FOR CONVERT? field
 - on the Package Bind Overrides panel 331
 - on the Plan Bind Overrides panel 343
- DISPLAY OVERRIDE PANEL FOR SELECT? field
 - on the Package Bind Overrides panel 331
 - on the Plan Bind Overrides panel 343
- DISPLAY PANEL field
 - on the Output Options Defaults panel 327
- DISPLAY PARTIAL PLAN EXPLAIN field
 - on the EXPLAIN Defaults panel 304
- DISPLAY SQL STATEMENT TYPE RECOMMENDATIONS field
 - on the Recommendations Panel 0 349

- DISPLAY SQLCODE or SQLSTATE field
 - on the EXPLAIN/SQL Defaults panel 311
 - documentation conventions 10
 - % 11
 - braces 11
 - brackets 11
 - data set names 11
 - for commands 11
 - function keys 11
 - identifiers 11
 - italics 11
 - panel vs. display 12
 - qualifiers 11
 - related to figures 11
 - related to panels 11
 - revision bars 11
 - terminology 12
 - documentation set 13
 - documentation, online 14
 - DP (DeferPrep) field
 - on the Packages panel 174
 - on the Plans panel 197
 - DR field
 - on the Packages panel 174, 197
 - DROP field
 - from DBRMs 197
 - from Packages 197
 - on the DBRMs panel 61
 - on the Packages panel 174
 - on the Plans panel 197
 - DSETPASS field
 - on the Estimator panel 74
 - on the EXPLAIN panel 112
 - on the Whatif panel 253
 - DSNTIAD PLAN NAME field
 - on the !DB/Tools DB2 Configuration Information panel 292
 - DSNTIAUL PLAN NAME field
 - on the !DB/Tools DB2 Configuration Information panel 292
 - DSNZPARM MEMBER NAME field
 - on the !DB/Tools DB2 Configuration Information panel 292
 - DYNAMICRULES
 - on the BIND/REBIND Plan panel 35
 - on the Package Bind Overrides panel 331
 - on the Plan Bind Overrides panel 343
 - DYNAMICRULES field
 - on the BIND/REBIND Package panel 26
 - on the Packages panel 175
 - DYNAMICRULES field (*continued*)
 - on the Plans panel 197
 - DYNAMICRULES= field
 - on the EXPLAIN panel 112
- ## E
- E M field
 - on the EXPLAIN panel 112
 - EDPROC field
 - on the Estimator panel 74
 - on the EXPLAIN panel 112
 - on the Whatif panel 253
 - electronic customer support 451
 - EM (EXPLAIN METHOD) field
 - on the EXPLAIN Compare panel 138
 - ENABLE field 165
 - on the Package Connections panel 165
 - on the Plan Connections panel 184
 - ENABLED? field 35
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 35
 - ENABLE/DISABLE CONNECTIONS? field 35
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 35
 - ENQUEUE ON EXTRACT DATASETS field
 - on the VSAM Tuning Parameters panel 383
 - ERASERULE field
 - on the Estimator panel 74, 75
 - on the EXPLAIN panel 113
 - on the Whatif panel 253
 - ERROR field
 - on the EXPLAIN History panel 147
 - ESTAE FLAG field
 - on the Online Menu panel 161
 - ESTIMATE ADJUSTER field
 - on the Build Tuning Parameters panel 282
 - Estimator panel 67
 - EX (EXPLAIN) field
 - on the Packages panel 175
 - on the Plans panel 198
 - EXCEPTION DESCRIPTION field
 - on the Exceptions panel 94
 - Exception Options panel 299
 - Exceptions panel 93
 - EXECUTE BIND COMPARE GENERATE OPTION? field
 - on the BIND Compare Options panel 278

- EXECUTE BIND/REBIND FOR DIFFERENT PATHS? field
 - on the BIND Compare Options panel 278
 - EXECUTE BIND/REBIND FOR SAME PATHS? field
 - on the BIND Compare Options panel 279
 - EXECUTE field
 - from DBRMs 198
 - from Packages 198
 - on the DBRMs panel 61
 - on the Packages panel 175
 - on the Plans panel 197, 198
 - exit to DB2
 - using host variables in 311
 - using synonyms in 311
 - EXPLAIN
 - Format 0 definition 95
 - EXPLAIN Compare panel 134
 - EXPLAIN DATE/TIME field
 - on the DBRMs panel 61
 - on the EXPLAIN Compare panel 138
 - on the EXPLAIN History panel 147
 - on the Packages panel 175
 - EXPLAIN Defaults panel 303
 - EXPLAIN DIFFERENCES field
 - on the EXPLAIN Compare panel 138
 - EXPLAIN Display Tuning Parameters
 - KTEPHOVD 307
 - EXPLAIN field 35
 - from DBRMs 198
 - from packages 113, 198
 - from plans 113
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 35
 - on the DBRMs panel 61
 - on the EXPLAIN panel 113
 - on the Package Bind Overrides panel 331
 - on the Packages panel 175
 - on the Plan Bind Overrides panel 343
 - on the Plans panel 198
 - EXPLAIN History Delete Confirmation panel 146
 - EXPLAIN History panel 144
 - EXPLAIN METHOD field
 - on the EXPLAIN Compare panel 138
 - EXPLAIN panel 95
 - EXPLAIN plan table data 95
 - EXPLAIN TIMESTAMP field
 - on the EXPLAIN panel 113
 - on the Statement Costs panel 52
 - EXPLAIN/SQL Defaults panel 310
 - EXPREDICATE field
 - on the EXPLAIN panel 113
 - on the Plans panel 198
 - EXTRACT DATE/TIME field
 - on the Extract History panel 150
 - EXTRACT DESCRIPTION field
 - on the !DB/Tools DB2 Configuration Information panel 292
 - EXTRACT field
 - on the !DB/EXPLAIN Configuration Information panel 289
 - Extract History panel 149
 - Extract ID
 - on the Primary Menu panel 210
 - EXTRACT ID field 296
 - on the !DB/Tools DB2 Configuration Information panel 292
 - on the !DB/Tools Global Information—DB2 Subsystem Name Table panel 296
 - Extract Processing Defaults panel 312
 - EXTRACT SORT PARAMETERS field
 - on the !DB/EXPLAIN Configuration Information panel 289
 - Extract Update panel 151
- ## F
- FARINDREF field
 - on the Estimator panel 75
 - on the EXPLAIN panel 113
 - on the Whatif panel 253
 - FAROFFPOS field
 - on the Estimator panel 75
 - on the EXPLAIN panel 113
 - on the Whatif panel 254
 - features
 - changes 15
 - new 15
 - FETCH field
 - from DBRMs 198
 - from Packages 198
 - on the DBRMs panel 61
 - on the Packages panel 175
 - on the Plans panel 198
 - fields
 - # GNRS
 - on the Extract History panel 150
 - AC (Acquire)
 - on the Plans panel 193

fields (*continued*)

- ACC DEG 138
 - on the EXPLAIN Compare panel 105
 - on the EXPLAIN panel 138
- ACC PID 138
 - on the EXPLAIN Compare panel 105
 - on the EXPLAIN panel 138
- ACCESS
 - on the EXPLAIN panel 105
- ACCESS (Access) 138
 - on the EXPLAIN Compare panel 138
- ACCESS PATH
 - on the EXPLAIN panel 105
- ACCS (Access) 138
 - on the EXPLAIN Compare panel 138
- ACQUIRE 34
 - on the BIND/REBIND Plan panel 34
 - on the EXPLAIN panel 105
 - on the Plan BIND Overrides panel 342
 - on the Plans panel 193
- ACTION
 - on the Package Bind Overrides panel 330
 - on the Plan Bind Overrides panel 342
- ACTION on Package
 - on the BIND/REBIND Package panel 26
- ACTION ON PLAN 34
 - on the BIND/REBIND Plan panel 34
- ADDITIONAL datasets?
 - on the Online Menu panel 161
- ADG (Number of Access Degrees)
 - on the Statement Costs panel 52
- ALL
 - on the Libraries panel 158
- ALL SQL
 - on the SQL Formats for KTEXPL panel 380
- ALTER 193
 - from DBRMs 193
 - from packages 193
 - on the DBRMs panel 60
 - on the Packages panel 172
 - on the Plans panel 193
- ALTER SQL TO AVOID -117
 - on the EXPLAIN Defaults panel 304
- ALTER SQL TO AVOID -417/-418
 - on the EXPLAIN Defaults panel 304
- ALTERED
 - on the EXPLAIN panel 105
- ALERTS
 - on the Estimator panel 71
 - on the Whatif panel 250

fields (*continued*)

- AMOUNT OF DATA TO GATHER
 - on the Estimator panel 71
 - on the Whatif panel 250
- AMOUNT OF STATISTICS TO GATHER
 - on the EXPLAIN Defaults panel 304
- AND/OR
 - on the Selection Masking panel 370
- AUDIT
 - on the Estimator panel 71
 - on the EXPLAIN panel 106
 - on the Whatif panel 250
- AVERAGE SIZE
 - on the EXPLAIN panel 106
 - on the Packages panel 172
- AVERAGE STATEMENT COST
 - on the Packages panel 172
- AVERAGE STMT COST
 - on the Packages panel 172
 - on the Statement Costs panel 52
- AVG STMT COST
 - on the DBRMs panel 60
- AVGSIZE
 - on the Plans panel 193
- AVSIZE
 - on the EXPLAIN panel 106
 - on the Packages panel 172
- BATCH RC
 - on the Recommendations Panel 1 351
 - on the Recommendations Panel 2 353
 - on the Recommendations Panel 3 355
 - on the Recommendations Panel 4 357
 - on the Recommendations Panel 5 359
 - on the Recommendations Panel 6 361
 - on the Recommendations Panel 7 363
 - on the Recommendations Panel 8 365
 - on the Recommendations Panel 9 367
- BATCH WARNING RETURN CODE
 - on the Miscellaneous Defaults panel 323
- BIND COMPARE ALL PACKAGES INCLUDED IN PLAN?
 - on the BIND Compare Options panel 278
- BIND COPY
 - on the Package BIND Overrides panel 330
- BIND DATE
 - on the EXPLAIN panel 106
 - on the Plans panel 193
- BIND DATE/TIME 172
- BIND OPTIONS FOR COMPARE
 - on the BIND Compare Options panel 278

fields (*continued*)

- BIND or REBIND 34
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
- BIND TIME
 - on the EXPLAIN panel 106
 - on the Plans panel 193
- BLANK LINE AFTER STATEMENTS
 - on the Miscellaneous Defaults panel 323
- BOUND
 - on the EXPLAIN panel 106
 - on the Packages panel 172
- BOUND BY
 - on the EXPLAIN panel 106
 - on the Plans panel 193
- BPOOL
 - on the Estimator panel 71
 - on the EXPLAIN panel 106
 - on the Whatif panel 250
- BYPASS STATEMENTS DISPLAY?
 - on the SQL Defaults panel 378
- C H
 - on the EXPLAIN panel 106
- Cache Size 34
 - on the BIND/REBIND Plan panel 34
 - on the EXPLAIN panel 106
 - on the Plan BIND Overrides panel 342
 - on the Plans panel 193
- CACHESZ (Cache Size) 34
 - on the BIND/REBIND Plan panel 34
 - on the Plans panel 193
- CALL
 - on the DBRMs panel 60
 - on the Packages panel 172
 - on the Plans panel 193
- CARD
 - on the Estimator panel 71
 - on the EXPLAIN panel 106, 107
 - on the Whatif panel 250
- CARDP
 - on the Estimator panel 71
 - on the Whatif panel 250
- CARDP (TSTP)
 - on the EXPLAIN panel 107
- CATALOG
 - on the !DB/EXPLAIN Configuration Information panel 289
- CATALOG EXTRACT dataset BUFFERS
 - on the VSAM Tuning Parameters panel 383

fields (*continued*)

- CATALOG EXTRACT dataset INDEX
- BUFFERS
 - on the VSAM Tuning Parameters panel 383
- CATALOG OWNER
 - on the Extract History panel 150
- CATALOG PREFIX
 - on the !DB/Tools DB2 Configuration Information panel 291
- CD
 - on the Plans panel 194
- CH (Charset)
 - on the DBRMs panel 60
 - on the Packages panel 172
- Changed statement identifier
 - on the EXPLAIN panel 107
 - on the Statements panel 217
- CHARACTER TO USE FOR BOX CORNERS
 - on the Miscellaneous Defaults panel 323
- CHARACTER TO USE FOR BOX SIDES
 - on the Miscellaneous Defaults panel 323
- CHARACTER TO USE FOR BOX TOPS
 - on the Miscellaneous Defaults panel 323
- Charset
 - on the DBRMs panel 60
 - on the EXPLAIN panel 107
 - on the Packages panel 172
- CHECKFLAG
 - on the Estimator panel 72
 - on the EXPLAIN panel 107
 - on the Whatif panel 251
- CHECKS
 - on the Estimator panel 72
 - on the EXPLAIN panel 107
 - on the Whatif panel 251
- CHILD
 - on the Estimator panel 72
 - on the EXPLAIN panel 107
 - on the Whatif panel 251
- CKFLAG
 - on the Estimator panel 72
 - on the Whatif panel 251
- CKRID
 - on the Estimator panel 72
 - on the EXPLAIN panel 108
 - on the Whatif panel 251
- CLIST Library 294
 - on the !DB/Tools Global Configuration Information panel 294

fields (*continued*)

- CLOSE
 - from DBRMs 194
 - from packages 194
 - on the DBRMs panel 60
 - on the Packages panel 172
 - on the Plans panel 194
- CLOSERULE
 - on the Estimator panel 72, 73
 - on the EXPLAIN panel 108
 - on the Whatif panel 251
- CLUSTERED
 - on the Estimator panel 73
 - on the EXPLAIN panel 108
 - on the Whatif panel 252
- CLUSTERING
 - on the Estimator panel 73
 - on the EXPLAIN panel 108
 - on the Whatif panel 252
- CLUSTERTYPE
 - on the Estimator panel 73
 - on the EXPLAIN panel 109
 - on the Whatif panel 252
- CLUSTRATIO
 - on the Estimator panel 73
 - on the EXPLAIN panel 109
 - on the Whatif panel 252
- CLUSTRATIO (IPX)
 - on the EXPLAIN panel 109
- CNTL dataset 294
 - on the !DB/Tools Global Configuration Information panel 294
- CO (Comma)
 - on the DBRMs panel 60
 - on the Packages panel 172
- COLCARD
 - on the Table Columns panel 230
- COLCOUNT
 - on the Estimator panel 73
 - on the EXPLAIN panel 109
 - on the Whatif panel 252
- COLLECTION 34, 40, 138
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
 - on the Collections panel 40
 - on the EXPLAIN Compare panel 138
 - on the EXPLAIN panel 109
 - on the Package BIND Overrides panel 330
 - on the Packages panel 172
- COLLECTION ID 26
 - on the BIND/REBIND Package panel 26

fields (*continued*)

- COLLECTION ID (*continued*)
 - on the EXPLAIN panel 109
 - on the Plan Package List panel 186
- COLLECTION ID PREFIX
 - on the !DB/Tools DB2 Configuration Information panel 291
- COLLECTION SPECIFICATION
 - on the Package Bind Overrides panel 330
 - on the Plan Bind Overrides panel 342
- COLLECTION TO USE FOR PACKAGE BIND COMPARE
 - on the BIND Compare Options panel 278
- COLLID 244
 - on the Verification panel 244
- COLNO
 - on the Table Columns panel 230
- COLTYPE
 - on the Table Columns panel 230
- COLUMN NAME 154
 - on the Keys panel 154
- COLUMN NO 154
 - on the Keys panel 154
- COLUMN SEQ 154
 - on the Keys panel 154
- COLUMN=
 - on the Column Distribution Statistics panel 43
- Comma
 - on the DBRMs panel 60
 - on the EXPLAIN panel 109
 - on the Packages panel 172
- COMMENT BEG DEL
 - on the SQL Formats for KTEXPL panel 380
- COMMENT COLUMN
 - on the SQL Formats for KTEXPL panel 380
- COMMENT END DEL
 - on the SQL Formats for KTEXPL panel 380
- COMMIT
 - from DBRMs 194
 - from Packages 194
 - on the DBRMs panel 60
 - on the Packages panel 172
 - on the Plans panel 194
- COMMIT EXECUTED SQL STATEMENTS
 - on the SQL Defaults panel 378
- COMPARE DBRM NAMES
 - on the BIND Compare Options panel 278

fields (*continued*)

- COMPARE DBRM NAMES (*continued*)
 - on the Compare Options panel 285
- COMPARE STATEMENT NUMBERS
 - on the BIND Compare Options panel 278
 - on the Compare Options panel 285
- COMPRESS
 - on the Estimator panel 74
 - on the Whatif panel 252
- COMPRESS (TSTP)
 - on the EXPLAIN panel 109
- CONCATENATION CHARACTER
 - on the EXPLAIN/SQL Defaults panel 311
- CONNECT
 - from DBRMs 194
 - from Packages 194
 - on the DBRMs panel 60
 - on the Package Connections panel 165
 - on the Packages panel 172
 - on the Plan Connections panel 184
 - on the Plans panel 194
- CONNECTION 34
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
- CONSIDER PACKAGES SAME WHEN
 - on the Miscellaneous Defaults panel 323
- CONT. COLUMN
 - on the SQL Formats for EXPL panel 380
- CONTOKEN
 - on the DBRMs panel 60
 - on the EXPLAIN panel 109
 - on the Packages panel 173
- CONVERT QUOTES
 - on the EXPLAIN/SQL Defaults panel 311
- CORR=
 - on the EXPLAIN Compare panel 138
 - on the EXPLAIN panel 109
- Cost field discrepancy identifier
 - on the EXPLAIN panel 110
- COSTS1
 - on the Data Formats panel 287
- COSTS2
 - on the Data Formats panel 287
- COUNT
 - on the Data Formats panel 287
 - on the Exceptions panel 94
 - on the Plans panel 195
- CREATE
 - from DBRMs 195
 - from Packages 195
 - on the DBRMs panel 60

fields (*continued*)

- CREATE (*continued*)
 - on the Packages panel 173
 - on the Plans panel 195
- CREATE BATCH JCL?
 - on the Online Menu panel 161
- CREATEBY
 - on the Estimator panel 74
 - on the EXPLAIN panel 110
 - on the Whatif panel 252, 253
- CREATED
 - on the EXPLAIN panel 110
 - on the Packages panel 173
- CREATETS
 - on the Estimator panel 74
 - on the Whatif panel 253
- CREATOR
 - from packages 110
 - from plans 110
 - on the Estimator panel 74
 - on the EXPLAIN panel 110
 - on the Packages panel 173
 - on the Plans panel 195
 - on the Tables panel 241
 - on the Whatif panel 253
- CREATOR OPTION
 - on the Set Defaults panel 375
- CURRENT DEGREE 217
 - on the Statement Summary panel 217
- CURRENTDATA 34
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
 - on the Package BIND Overrides panel 331
 - on the Plan BIND Overrides panel 342
- CURRENTSERVER 34
 - on the BIND/REBIND Plan panel 34
 - on the Plan BIND Overrides panel 343
- D#TS
 - on the DBRMs panel 60
- DASH IN HOST
 - on the SQL Formats for KTEXPL panel 380
- DATA TYPE 217
 - on the Host Variables panel 217
- DATAC
 - on the Estimator panel 74
- DATACAPTURE
 - on the Whatif panel 253
- dataset CONTAINING DSN1COPY
 - on the !DB/Tools DB2 Configuration Information panel 291

fields (*continued*)

- dataset CONTAINING DSNHDECP
 - on the !DB/Tools DB2 Configuration Information panel 291
- dataset CONTAINING DSNTIAD
 - on the !DB/Tools DB2 Configuration Information panel 291
- dataset CONTAINING DSNTIAUL
 - on the !DB/Tools DB2 Configuration Information panel 291
- dataset CONTAINING DSNZPARM
 - on the !DB/Tools DB2 Configuration Information panel 292
- Dataset Name 298
 - on the !DB/Tools Profile Dataset List panel 298
- DATE
 - on the Data Formats panel 287
- DB@ DSNEXIT dataset
 - on the !DB/Tools DB2 Configuration Information panel 292
- DB2 DSNLOAD dataset
 - on the !DB/Tools DB2 Configuration Information panel 292
- DB2 Extract ID
 - on the Online Menu panel 161
- DB2 LOCATION NAME
 - on the !DB/Tools DB2 Configuration Information panel 292
- DB2 RUNLIB dataset
 - on the !DB/Tools DB2 Configuration Information panel 292
- DB2 SSID 296
 - on the !DB/Tools Global Information—DB2 Subsystem Name Table panel 296
- DB2 SUBSYSTEM ID
 - on the !DB/Tools DB2 Configuration Information panel 292
- DB2 VERSION
 - on the !DB/Tools DB2 Configuration Information panel 292
- DB2VRM
 - on the EXPLAIN History panel 147
- DBID
 - on the Estimator panel 74
 - on the EXPLAIN panel 110
 - on the Whatif panel 253
- DBRM 138, 244
 - on the DBRMs panel 60
 - on the EXPLAIN Compare panel 138
 - on the Verification panel 244

fields (*continued*)

- DBRM Library 294
 - on the !DB/Tools Global Configuration Information panel 294
- DBRM Member 26, 34
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
- DBRM NAME 217
 - on the Statements panel 217
- DBRM/PACKAGE
 - on the Statement Costs panel 52
- DBRM/PACKAGE NAME
 - on the EXPLAIN panel 110
- DBRMS
 - on the Libraries panel 158
- DB/Tools Database
 - on the !DB/Tools DB2 Configuration Information panel 291, 292
- DCL CSR
 - on the Plans panel 195
- DE (Dec31)
 - on the DBRMs panel 61
 - on the Packages panel 173
- DEALLOCATE PLAN_TABLE EXTRACT DATASET AFTER EACH USE
 - on the VSAM Tuning Parameters panel 383
- DEALLOCATE STATEMENTS EXTRACT DATASET AFTER EACH USE?
 - on the VSAM Tuning Parameters panel 383
- Dec31
 - on the DBRMs panel 61
 - on the EXPLAIN panel 111
 - on the Packages panel 173
- DECIMAL POINT OPTION FOR KTEXPL
 - on the SQL Defaults panel 378
- DECLARE CURSOR
 - from DBRMs 195
 - from Packages 195
 - on the DBRMs panel 61
 - on the Packages panel 173
 - on the Plans panel 195
- DECLARE STATEMENT
 - from DBRMs 195
 - from Packages 195
 - on the DBRMs panel 61
 - on the Packages panel 173
 - on the Plans panel 195
- DECLARE TABLE
 - from DBRMs 196

fields (*continued*)

- DECLARE TABLE (*continued*)
 - from Packages 196
 - on the DBRMs panel 61
 - on the Packages panel 173
 - on the Plans panel 196
- DEFAULT
 - on the Table Columns panel 230
- DEFAULT REMOTE LOCATION
 - on the Set Defaults panel 375
- DEFERPREP 35
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 35
 - on the EXPLAIN panel 111, 173
 - on the Package BIND Overrides panel 331
 - on the Plan Bind Overrides panel 343
- DEFERPREPARE
 - on the EXPLAIN panel 111
- DEFER(PREPARE)
 - on the Packages panel 174
 - on the Plans panel 197
- DEFERPREPARE(Plans)
 - on the EXPLAIN panel 112
- DEGREE 34
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 34
 - on the EXPLAIN header 111
 - on the EXPLAIN panel 111
 - on the Package BIND Overrides panel 331
 - on the Packages panel 173
 - on the Plan BIND Overrides panel 343
 - on the Plans panel 196
- DELETES
 - from DBRMs 196
 - from Packages 196
 - on the DBRMs panel 61
 - on the Packages panel 174
 - on the Plans panel 196
 - on the Tables panel 241
- DESCRIBE
 - from DBRMs 196
 - from Packages 196
 - on the DBRMs panel 61
 - on the Packages panel 174
 - on the Plans panel 196
- DESCRIPTION 296
 - on the !DB/Tools Global Information—DB2 Subsystem Name Table panel 296
 - on the Extract History panel 150
- DG
 - on the Packages panel 174

fields (*continued*)

- DG (*continued*)
 - on the Plans panel 196
- DI
 - on the Plans panel 197
- DISCONNECT 35
 - on the BIND/REBIND Plan panel 35
 - on the EXPLAIN panel 111
 - on the Plan BIND Overrides Panel 343
 - on the Plans panel 197
- DISCONNECT FROM DB2?
 - on the EXPLAIN/SQL Defaults panel 311
- DISPLAY BIND COMPARE CONFIRMATION PANEL?
 - on the BIND Compare Options panel 278
- DISPLAY BIND TYPE RECOMMENDATIONS
 - on the Recommendations Panel 0 349
- DISPLAY BUILD STATUS PANELS
 - on the Extract Processing Defaults panel 313
- DISPLAY EXCEPTION OPTIONS PANEL?
 - on the Exception Options panel 300
- DISPLAY EXCEPTION TYPE RECOMMENDATIONS
 - on the Recommendations Panel 0 349
- DISPLAY KTEXPL SOURCE IN HEADER
 - on the SQL Defaults panel 378
- DISPLAY MASK PANEL?
 - on the Selection Masking panel 370
- DISPLAY MASKS?
 - on the Primary Menu panel 210
- DISPLAY OBJECT TYPE RECOMMENDATIONS
 - on the Recommendations Panel 0 349
- DISPLAY OVERRIDE PANEL FOR COMMAND?
 - on the Package Bind Overrides panel 331
 - on the Plan Bind Overrides panel 343
- DISPLAY OVERRIDE PANEL FOR COMPARE?
 - on the Package Bind Overrides panel 331
 - on the Plan Bind Overrides panel 343
- DISPLAY OVERRIDE PANEL FOR CONVERT?
 - on the Package Bind Overrides panel 331
 - on the Plan Bind Overrides panel 343
- DISPLAY OVERRIDE PANEL FOR SELECT?
 - on the Package Bind Overrides panel 331
 - on the Plan Bind Overrides panel 343

fields (*continued*)

- DISPLAY PANEL
 - on the Output Options Defaults panel 327
- DISPLAY PARTIAL PLAN EXPLAIN
 - on the EXPLAIN Defaults panel 304
- DISPLAY SQL STATEMENT TYPE RECOMMENDATIONS
 - on the Recommendations Panel 0 349
- DISPLAY SQLCODE or SQLSTATE
 - on the EXPLAIN/SQL Defaults panel 311
- DP (DeferPrep) 197
 - on the Packages panel 174
 - on the Plans panel
- DR
 - on the Packages panel 174, 197
- DROP
 - from DBRMs 197
 - from Packages 197
 - on the DBRMs panel 61
 - on the Packages panel 174
 - on the Plans panel 197
- DSETPASS
 - on the Estimator panel 74
 - on the EXPLAIN panel 112
 - on the Whatif panel 253
- DSNTIAD PLAN NAME
 - on the !DB/Tools DB2 Configuration Information panel 292
- DSNTIAUL PLAN NAME
 - on the !DB/Tools DB2 Configuration Information panel 292
- DSNZPARM MEMBER NAME
 - on the !DB/Tools DB2 Configuration Information panel 292
- DYNAMICRULES
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 35
 - on the Package Bind Overrides panel 331
 - on the Packages panel 175
 - on the Plan Bind Overrides panel 343
 - on the Plans panel 197
- DYNAMICRULES=
 - on the EXPLAIN panel 112
- E M
 - on the EXPLAIN panel 112
- EDPROC
 - on the Estimator panel 74
 - on the EXPLAIN panel 112
 - on the Whatif panel 253
- EM (EXPLAIN METHOD) 138
 - on the EXPLAIN Compare panel 138

fields (*continued*)

- ENABLE
 - on the Package Connections panel 165
 - on the Plan Connections panel 184
- ENABLED? 35
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 35
- ENABLE/DISABLE CONNECTIONS? 35
 - on the BIND/REBIND Package panel 26
 - on the BIND/REBIND Plan panel 35
- ENQUEUE ON EXTRACT DATASETS
 - on the VSAM Tuning Parameters panel 383
- ERASERULE
 - on the Estimator panel 74, 75
 - on the EXPLAIN panel 113
 - on the Whatif panel 253
- ERROR
 - on the EXPLAIN History panel 147
- ESTAE FLAG
 - on the Online Menu panel 161
- ESTIMATE ADJUSTER
 - on the Build Tuning Parameters panel 282
- EX (EXPLAIN)
 - on the Packages panel 175
 - on the Plans panel 198
- EXCEPTION DESCRIPTION
 - on the Exceptions panel 94
- EXECUTE
 - from DBRMs 198
 - from Packages 198
 - on the DBRMs panel 61
 - on the Packages panel 175
 - on the Plans panel 197, 198
- EXECUTE BIND COMPARE GENERATE OPTION?
 - on the BIND Compare Options panel 278
- EXECUTE BIND/REBIND FOR DIFFERENT PATHS?
 - on the BIND Compare Options panel 278
- EXECUTE BIND/REBIND FOR SAME PATHS?
 - on the BIND Compare Options panel 279
- EXPLAIN 35
 - from DBRMs 198
 - from packages 113, 198
 - from plans 113
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 35
 - on the DBRMs panel 61
 - on the EXPLAIN panel 113

fields (*continued*)

- EXPLAIN (*continued*)
 - on the Package Bind Overrides panel 331
 - on the Packages panel 175
 - on the Plan Bind Overrides panel 343
 - on the Plans panel 198
- EXPLAIN DATE/TIME 138, 147
 - on the DBRMs panel 61
 - on the EXPLAIN Compare panel 138
 - on the EXPLAIN History panel 147
 - on the Packages panel 175
- EXPLAIN DIFFERENCES 138
 - on the EXPLAIN Compare panel 138
- EXPLAIN METHOD 138
 - on the EXPLAIN Compare panel 138
- EXPLAIN TIMESTAMP
 - on the EXPLAIN panel 113
 - on the Statement Costs panel 52
- EXPREDICATE
 - on the EXPLAIN panel 113
 - on the Plans panel 198
- EXTRACT
 - on the !DB/EXPLAIN Configuration Information panel 289
- EXTRACT DATE/TIME
 - on the Extract History panel 150
- EXTRACT DESCRIPTION
 - on the !DB/Tools DB2 Configuration Information panel 292
- Extract ID 296
 - on the !DB/Tools DB2 Configuration Information panel 292
 - on the !DB/Tools Global Information—DB2 Subsystem Name Table panel 296
 - on the Primary Menu panel 210
- EXTRACT SORT PARAMETERS
 - on the !DB/EXPLAIN Configuration Information panel 289
- FARINDREF
 - on the Estimator panel 75
 - on the EXPLAIN panel 113
 - on the Whatif panel 253
- FAROFFPOS
 - on the Estimator panel 75
 - on the EXPLAIN panel 113
 - on the Whatif panel 254
- FETCH
 - from DBRMs 198
 - from Packages 198
 - on the DBRMs panel 61
 - on the Packages panel 175

fields (*continued*)

- FETCH (*continued*)
 - on the Plans panel 198
- FILTER TYPE
 - on the Panel Filters panel 336
- FIRSTKEY
 - on the Estimator panel 75
 - on the EXPLAIN panel 114
 - on the Whatif panel 254
- FIRSTKEY (IXP)
 - on the EXPLAIN panel 114
- FLAG 36, 332
 - on the BIND Plan Overrides panel 344
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 36
 - on the Package BIND Overrides panel 332
- FLDPROC
 - on the Table Columns panel 230
- FN (Function) 138
 - on the EXPLAIN Compare panel 138
 - on the EXPLAIN panel 114
- FOR SQL EXECUTION
 - on the !DB/EXPLAIN Configuration Information panel 289
- FORCE XUPDT WHEN EXPLAINING?
 - on the EXPLAIN Defaults panel 305
- FOREIGNKEY
 - on the Table Columns panel 230
- FORMAT
 - on the SQL Formats for KTEXPL panel 380
- FORMAT #
 - on the Panel Formats panel 338
- FORMAT OF THE INPUT FILE
 - on the SQL Formats for KTEXPL panel 380
- FORMAT0 DISPLAY?
 - on the EXPLAIN Display Tuning Parameters panel 309
- FREED?
 - on the Packages panel 175
 - on the Plans panel 198
- FREEPAGE
 - on the Estimator panel 75
 - on the EXPLAIN panel 114
 - on the Whatif panel 254
- FREQ%
 - on the Column Distribution Statistics panel 43
- FROM TABLE identifier
 - on the EXPLAIN panel 114

fields (*continued*)

- FULLKEY
 - on the Estimator panel 75
 - on the EXPLAIN panel 114
 - on the Whatif panel 254
- FULLKEY (IXP)
 - on the EXPLAIN panel 114
- FUNCTION
 - on the Administration Menu panel 22
 - on the EXPLAIN panel 114
 - on the Online Menu panel 161
 - on the Primary Menu panel 210
- Function) 138
 - on the EXPLAIN Compare panel 138
- GBPCACHE (IXP)
 - on the Estimator panel 75
 - on the EXPLAIN panel 114
 - on the Whatif panel 254
- GBPCACHE (TSTP)
 - on the Estimator panel 76
 - on the EXPLAIN panel 115
 - on the Whatif panel 254
- GEN PKLIST
 - on the Plan Bind Overrides panel 344
- GENERATE BIND/REBIND FOR DIFFERENT PATHS?
 - on the BIND Compare Options panel 279
- GENERATE BIND/REBIND FOR SAME PATHS?
 - on the BIND Compare Options panel 279
- GENERATE PLAN OR PACKAGE BINDS FOR DBRMS?
 - on the BIND Compare Options panel 279
- GENERATE UPDATE IF NO STATISTICS?
 - on the Miscellaneous Defaults panel 324
- GENERATE?
 - on the EXPLAIN Display Tuning Parameters panel 309
- GENERATIONS OF CATALOG HISTORY
 - on the Extract Processing Defaults panel 313
- GENERATIONS OF EXPLAIN HISTORY
 - on the Extract Processing Defaults panel 313
- GNRS, Number of
 - on the Extract History panel 150
- GRANT
 - from DBRMs 199
 - from Packages 199
 - on the DBRMs panel 61
 - on the Packages panel 175

fields (*continued*)

- GRANT (*continued*)
 - on the Plans panel 199
- GROUP MEMBER
 - on the Packages panel 175
 - on the Plans panel 199
- GROUP MEMBER=
 - on the EXPLAIN panel 115
- HBJ (Hybrid Join)
 - on the Statement Costs panel 52
- HIGH LEVEL QUALIFIER#1
 - on the Library Search Order panel 321
- HIGH LEVEL QUALIFIER#2 294
 - on the !DB/Tools Global Configuration Information panel 294
 - on the Library Search Order panel 321
- HIGH LEVEL QUALIFIER#3
 - on the Library Search Order panel 321
- HIGH LEVEL QUALIFIER#4
 - on the Library Search Order panel 321
- HIGH2KEY NULL
 - on the Table Columns panel 231
- HIGH2KEY VALUE
 - on the Table Columns panel 231
- HIGHKEY NULL
 - on the Table Columns panel 230
- HIGHKEY VALUE
 - on the Table Columns panel 230
- HL (Hostlang)
 - on the DBRMs panel 61
 - on the Packages panel 176
- HOST VARIABLE FLAG
 - on the SQL Formats for KTEXPL panel 380
- HOST VARIABLE NAME 217
 - on the Host Variables panel 217
- Hostlang
 - on the DBRMs panel 61
 - on the EXPLAIN panel 115
 - on the Packages panel 176
- Hybrid Join
 - on the Statement Costs panel 52
- I1 (One-Fetch Index Scan)
 - on the Statement Costs panel 52
- IMPLICIT
 - on the Estimator panel 76
 - on the EXPLAIN panel 115
 - on the Whatif panel 254
- INCLUDE DBRM? 36
 - on the BIND/REBIND Plan panel 36

fields (*continued*)

- INCLUDE PACKAGE LIST? 36
 - on the BIND/REBIND Plan panel 36
- Index Only 139
 - on the EXPLAIN Compare panel 139
- Index Scan for IN
 - on the Statement Costs panel 53
- Index Scans on Index
 - on the Statement Costs panel 53
- INDEXNAME 139
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 115
- INDEXSPACE
 - on the Estimator panel 76
 - on the EXPLAIN panel 115
 - on the Whatif panel 255
- INDEXTYPE
 - on the Estimator panel 76
 - on the EXPLAIN panel 115
 - on the Whatif panel 255
- INITIAL CMD
 - on the Panel Formats panel 338
- INSERTS
 - from DBRMs 199
 - from Packages 199
 - on the DBRMs panel 61
 - on the Packages panel 176
 - on the Plans panel 199
 - on the Tables panel 241
- INTERLEAVE PACKAGES IN REPORT?
 - on the EXPLAIN Defaults panel 305
- IS 218
 - on the Statements panel 218
- IS (Isolation)
 - on the Packages panel 176
 - on the Plans panel 199
- ISOBID
 - on the Estimator panel 76
 - on the EXPLAIN panel 115
 - on the Whatif panel 255
- ISOLATION 36
 - from packages 116
 - from plans 116
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 36
 - on the EXPLAIN panel 116
 - on the Package BIND Overrides panel 332
 - on the Packages panel 176
 - on the Plan BIND Overrides panel 344
 - on the Plans panel 199

fields (*continued*)

- ISSUE SQL CALLS IN PARSER EXIT
 - on the EXPLAIN/SQL Defaults panel 311
- ISSUE WTOR
 - on the VSAM Tuning Parameters panel 383
- ISSUE XUPDT AFTER FREEING INTERMEDIATE STORAGE
 - on the VSAM Tuning Parameters panel 383
- IX
 - on the Estimator panel 76
 - on the EXPLAIN panel 116
 - on the Whatif panel 255
- IX (Index Only) 139
 - on the EXPLAIN Compare panel 139
- IXCREATOR 154
 - on the Estimator panel 76
 - on the EXPLAIN panel 116
 - on the Keys panel 154
 - on the Whatif panel 255
- IXNAME 154
 - on the EXPLAIN panel 116
 - on the Keys panel 154
 - on the Whatif panel 255
- IXP
 - on the Estimator panel 76
 - on the EXPLAIN panel 116
 - on the Whatif panel 255
- J T=
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 116
- JDG (Number of Join Degrees)
 - on the Statement Costs panel 52
- JOI DEG 139
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 116
- JOI PID 139
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 116
- JOIN OF CATALOG TABLES FOR STATS
 - on the EXPLAIN Defaults panel 305
- K#TS
 - on the Packages panel 176
- KD(KEEPDYNAMICS)
 - from Packages 199
 - on the Plans panel 199
- KEEP PLAN_TABLE EXTRACT DATASET
- OPEN FOR UPDATE
 - on the VSAM Tuning Parameters panel 383

fields (*continued*)

- KEEPDYNAMIC 36
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 36
 - on the Package BIND Overrides panel 332
 - on the Plan BIND Overrides panel 344
- KEEPDYNAMIC (Packages)
 - on the EXPLAIN panel 117
- KEEPDYNAMIC (Plans)
 - on the EXPLAIN panel 117
- KEYCNT
 - on the Estimator panel 76
 - on the Whatif panel 255
- KEYCNT (IXP)
 - on the EXPLAIN panel 117
- KEYCOLUMNS
 - on the Estimator panel 76
 - on the EXPLAIN panel 117
 - on the Whatif panel 255
- KEYOBID
 - on the Estimator panel 77
 - on the EXPLAIN panel 117
 - on the Whatif panel 255
- KEYSEQ
 - on the Table Columns panel 231
- KEYSIZE
 - on the Estimator panel 77
- KKEEP
 - on the Packages panel 176
- KTEXPL OWNER FOR SYNONYMS
 - on the Set Defaults panel 375
- LANG TYPE
 - on the SQL Formats for KTEXPL panel 381
- LCK 139
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 117
- LCK SHR
 - from DBRMs 199
 - from Packages 199
 - on the DBRMs panel 62
 - on the Packages panel 176
 - on the Plans panel 199
- LCK (TSLOCKMODE)
 - on the Statement Costs panel 52
- LCK XCL
 - from DBRMs 200
 - from Packages 200
 - on the DBRMs panel 62
 - on the Packages panel 176
 - on the Plans panel 199, 200

fields (*continued*)

- LEAFDIST
 - on the Estimator panel 77
 - on the EXPLAIN panel 117
 - on the Whatif panel 255
- LENGTH 218
 - on the Host Variables panel 218
 - on the Table Columns panel 231
- LERR (Library Error)
 - on the Libraries panel 158
- LEVEL
 - on the Recommendations Panel 1 351
 - on the Recommendations Panel 2 353
 - on the Recommendations Panel 3 355
 - on the Recommendations Panel 4 357
 - on the Recommendations Panel 5 359
 - on the Recommendations Panel 6 361
 - on the Recommendations Panel 7 363
 - on the Recommendations Panel 8 365
 - on the Recommendations Panel 9 367
- LHS
 - on the SQL Formats for KTEXPL panel 381
- LIBRARY
 - on the BIND/REBIND Package panel 27
 - on the DBRMs panel 62
 - on the EXPLAIN panel 117
 - on the Packages panel 176
- Library Error
 - on the Libraries panel 158
- LIBRARY NAME 36, 163, 244
 - on the BIND/REBIND Plan panel 36
 - on the Output Options panel 163
 - on the Verification panel 244
- List Prefetch
 - on the Statement Costs panel 52
- LOAD Library 294
 - on the !DB/Tools Global Configuration Information panel 294
- LOCATION 36, 40, 244
 - from packages 117
 - on the BIND/REBIND Plan panel 36
 - on the Collections panel 40
 - on the Estimator panel 77
 - on the EXPLAIN panel 117, 118
 - on the Package BIND Overrides panel 332
 - on the Plan Package List panel 186
 - on the Tables panel 241
 - on the Verification panel 244
 - on the Whatif panel 255

fields (*continued*)

- LOCATION NAME
 - on the BIND/REBIND Package panel 27
- LOCK SHRS
 - on the Tables panel 241
- LOCK XCLS
 - on the Tables panel 241
- LOCKMAX
 - on the Estimator panel 77
 - on the EXPLAIN panel 118
 - on the Whatif panel 255
- LOCKRULE
 - on the Estimator panel 77
 - on the EXPLAIN panel 118
 - on the Whatif panel 256
- LOCKS (SHR)
 - from DBRMs 199
 - from Packages 199
 - on the DBRMs panel 62
 - on the Packages panel 176
 - on the Plans panel 199
 - on the Tables panel 241
- LOCKS (XCL)
 - from DBRMs 200
 - from Packages 200
 - on the DBRMs panel 62
 - on the Packages panel 176
 - on the Plans panel 199, 200
 - on the Tables panel 241
- LOG BATCH BIND, REBIND AND FREE?
 - on the Miscellaneous Defaults panel 324
- LOG PDS
 - on the !DB/EXPLAIN Configuration Information panel 289
- LOW LEVEL QUALIFIER#1
 - on the Library Search Order panel 321
- LOW LEVEL QUALIFIER#2
 - on the Library Search Order panel 321
- LOW LEVEL QUALIFIER#3
 - on the Library Search Order panel 321
- LOW LEVEL QUALIFIER#4
 - on the Library Search Order panel 321
- LOW2KEY NULL
 - on the Table Columns panel 232
- LOW2KEY VALUE
 - on the Table Columns panel 232
- LOWKEY NULL
 - on the Table Columns panel 232
- LOWKEY VALUE
 - on the Table Columns panel 232

fields (*continued*)

- LPF (List Prefetch)
 - on the Statement Costs panel 52
- MAINTAIN KEY RATIO IN ESTIMATOR?
 - on the Miscellaneous Defaults panel 324
- MAKE STATISTICS PERMANENT?
 - on the Whatif panel 256
- MASK OUT ANY PACKAGES NOT IN THE SPECIFIED SET OF PLANS?
 - on the Selection Masking panel 370
- MASKING IN EFFECT?
 - on the Primary Menu panel 210
- Matching Index Scan
 - on the Statement Costs panel 52
- MAX BLKSIZE for VIO 294
 - on the !DB/Tools Global Configuration Information panel 294
- MAX LENGTH FOR HOST VAR INPUT
 - on the SQL Defaults panel 378
- MAX NUMBER OF XUPDT VSAM ERRORS
 - on the Extract Processing Defaults panel 313
- MAX STMT COST
 - on the DBRMs panel 62
- MAXIMUM STATEMENT COST
 - on the DBRMs panel 62
 - on the Packages panel 176
 - on the Statement Costs panel 52
- MAXIMUM STMT COST
 - on the Packages panel 176
 - on the Statement Costs panel 52
- ME (Method) 139
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 118
- MEMBER 163
 - on the Output Options panel 163
- MEMBER NAME
 - on the Output Options Defaults panel 327
- MEMBERS HEADING Number
 - on the Libraries panel 158
- Merge Scan Join
 - on the Statement Costs panel 53
- MERGE SINGLE STATEMENT EXPLAINS?
 - on the EXPLAIN Defaults panel 305
- Method 139
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 118
- MI (Multiple Index Intersection)
 - on the Statement Costs panel 52

fields (*continued*)

- MID LEVEL QUALIFIER#1
 - on the Library Search Order panel 321
- MID LEVEL QUALIFIER#2
 - on the Library Search Order panel 321
- MID LEVEL QUALIFIER#3
 - on the Library Search Order panel 321
- MID LEVEL QUALIFIER#4
 - on the Library Search Order panel 321
- MIS (Matching Index Scan)
 - on the Statement Costs panel 52
- Mixed
 - on the DBRMs panel 62
 - on the EXPLAIN panel 118
 - on the Packages panel 177
- MJCL
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 118
- MOD ONTO MEMBERS?
 - on the Output Options Defaults panel 327
- MODIFY ONTO MEMBER 163
 - on the Output Options panel 163
- MODIFY ONTO USER PDS MEMBERS?
 - on the BIND Compare Options panel 279
- MORE CONNECTIONS? 36
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 36
- MORE DBRMs? 36
 - on the BIND/REBIND Plan panel 36
- MORE LIBRARIES 36
 - on the BIND/REBIND Plan panel 36
- MORE PACKAGE LISTS? 37
 - on the BIND/REBIND Plan panel 37
- MSGs dataset 294
 - on the !DB/Tools Global Configuration Information panel 294
- MSJ (Merge Scan Join)
 - on the Statement Costs panel 53
- MTCL 139
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 118
- MU (Multiple Index Union)
 - on the Statement Costs panel 53
- Multiple Index Intersection
 - on the Statement Costs panel 52
- Multiple Index Union
 - on the Statement Costs panel 53
- MVS ID 296
 - on the !DB/Tools DB2 Configuration Information panel 292
 - on the !DB/Tools Global Information—DB2 Subsystem Name Table panel 296

fields (*continued*)

- MX (Index Scans on Index)
 - on the Statement Costs panel 53
- MX (Mixed)
 - on the DBRMs panel 62
 - on the Packages panel 177
- MXOP 139
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 118
- N (Index Scan for IN)
 - on the Statement Costs panel 53
- NACTIVE 256
 - on the Estimator panel 77
 - on the EXPLAIN panel 118
 - on the Whatif panel 256
- NACTIVE (TSTP)
 - on the EXPLAIN panel 119
- NAME
 - on the Tables panel 241
- NAME heading 140, 218
 - on the EXPLAIN Compare panel 140
 - on the EXPLAIN History panel 147
 - on the Libraries panel 158
 - on the Statement Costs panel 53
 - on the Statements panel 218
- NDX=
 - on the EXPLAIN panel 119
- NEARINDREF 256
 - on the Estimator panel 77
 - on the EXPLAIN panel 119
 - on the Whatif panel 256
- NEAROFFPOS
 - on the Estimator panel 77
 - on the EXPLAIN panel 119
 - on the Whatif panel 256
- Nested Loop Join
 - on the Statement Costs panel 53
- NLEAF 256
 - on the Estimator panel 77
 - on the EXPLAIN panel 119
 - on the Whatif panel 256
- NLEAF (IXP)
 - on the EXPLAIN panel 119
- NLEVELS
 - on the Estimator panel 77, 78
 - on the Whatif panel 256
- NLEVELS (IXP)
 - on the EXPLAIN panel 119
- NLJ (Nested Loop Join)
 - on the Statement Costs panel 53

fields (*continued*)

- NMIS (Non-Matching Index Scan)
 - on the Statement Costs panel 53
- No. of MEMBERS HEADING
 - on the Libraries panel 158
- Non-Matching Index Scan
 - on the Statement Costs panel 53
- NOT SIGN CHARACTER
 - on the EXPLAIN/SQL Defaults panel 311
- NPAGES
 - on the Estimator panel 78
 - on the EXPLAIN panel 119
 - on the Whatif panel 256
- NPAGES (TSTP)
 - on the EXPLAIN panel 119
- NTABLES
 - on the Estimator panel 78
 - on the EXPLAIN panel 119
 - on the Whatif panel 256
- NULL
 - on the Column Distribution Statistics panel 43
- NULLS
 - on the Table Columns panel 233
- Number of Access Degrees
 - on the Statement Costs panel 52
- NUMBER OF COLLECTIONS
 - on the Build Tuning Parameters panel 282
- NUMBER OF CONNECTIONS PER PACKAGE
 - on the Build Tuning Parameters panel 282
- NUMBER OF CONNECTIONS PER PLAN
 - on the Build Tuning Parameters panel 282
- NUMBER OF DBRMS PER PLAN
 - on the Build Tuning Parameters panel 282
- NUMBER OF DBRMS TO PROCESS
 - on the VSAM Tuning Parameters panel 383
- NUMBER OF DBRMS TO PROCESS (XCPT)
 - on the VSAM Tuning Parameters panel 384
- NUMBER OF EXPLAINABLE STATEMENTS PER DBRM/PACKAGE
 - on the Build Tuning Parameters panel 282
- Number of Join Degrees
 - on the Statement Costs panel 52
- NUMBER OF PACKAGES
 - on the Build Tuning Parameters panel 282
- NUMBER OF PACKAGES PER PLAN
 - on the Build Tuning Parameters panel 282

fields (*continued*)

- NUMBER OF PLANS
 - on the Build Tuning Parameters panel 282
- NUMBER OF STATEMENTS TO PROCESS
 - on the VSAM Tuning Parameters panel 384
- NUMBER OF TABLES
 - on the Build Tuning Parameters panel 282
- NUMBER OF TABLES REFERENCED BY AN EXPLAINABLE STATEMENT
 - on the Build Tuning Parameters panel 282
- NUMBER OF UNIQUE DBRMS
 - on the Build Tuning Parameters panel 282
- OBID 257
 - on the Estimator panel 78
 - on the EXPLAIN panel 119
 - on the Whatif panel 257
- OK
 - on the Extract History panel 150
- One-Fetch Index Scan
 - on the Statement Costs panel 52
- OP (Operative)
 - on the Packages panel 177
 - on the Plans panel 200
- OPEN
 - from DBRMs 200
 - from Packages 200
 - on the DBRMs panel 62
 - on the Packages panel 177
 - on the Plans panel 200
- OPERATIVE
 - from packages 119
 - from plans 120
 - on the EXPLAIN panel 119, 120
 - on the Packages panel 177
 - on the Plans panel 200
- OPERATOR
 - on the Selection Masking panel 370
- OPTION
 - on the Housekeeping panel 318
 - on the Recommendations Menu 347
- ORDER
 - on the EXPLAIN Display Tuning Parameters panel 309
- ORDERING 154
 - on the Keys panel 154
- OUT STATISTICS FORMAT
 - on the Miscellaneous Defaults panel 324
- OWNER
 - on the EXPLAIN panel 120
 - on the Package BIND Overrides panel 332

fields (*continued*)

OWNER (*continued*)
 on the Packages panel 177
 on the Plan BIND Overrides panel 344
 OWNER of PACKAGE(AUTHID)
 on the BIND/REBIND Package panel 27
 OWNER of PLAN(AUTHID) 37
 on the BIND/REBIND Plan panel 37
 P M
 on the EXPLAIN Compare panel 140
 on the EXPLAIN panel 120
 P R=
 on the EXPLAIN Compare panel 140
 on the EXPLAIN panel 120
 P#TS
 on the PLANS panel 200
 PACKAGE 37, 244
 on the BIND/REBIND Package panel 27
 on the BIND/REBIND Plan panel 37
 on the EXPLAIN panel 120
 on the Packages panel 177
 on the Plan Package List panel 186
 on the Verification panel 244
 PACKAGE BINDSTAMP MASK 1
 on the Selection Masking panel 370
 PACKAGE BINDSTAMP MASK 2
 on the Selection Masking panel 370
 PACKAGE COLLECTION MASK 1
 on the Selection Masking panel 370
 PACKAGE COLLECTION MASK 2
 on the Selection Masking panel 370
 PACKAGE COLLECTION SELECTION
 on the Miscellaneous Defaults panel 324
 PACKAGE CREATOR MASK 1
 on the Selection Masking panel 370
 PACKAGE CREATOR MASK 2
 on the Selection Masking panel 371
 PACKAGE ID
 on the BIND/REBIND Package panel 27
 PACKAGE MASK1
 on the Selection Masking panel 371
 PACKAGE MASK2
 on the Selection Masking panel 371
 PACKAGE NAME 138, 217
 on the EXPLAIN Compare panel 138
 on the Statements panel 217
 PACKAGE OWNER MASK 1
 on the Selection Masking panel 371
 PACKAGE OWNER MASK 2
 on the Selection Masking panel 371

fields (*continued*)

PACKAGE QUALIFIER MASK 1
 on the Selection Masking panel 371
 PACKAGE QUALIFIER MASK 2
 on the Selection Masking panel 371
 PACKAGE VERSION MASK 1
 on the Selection Masking panel 371
 PACKAGE VERSION MASK 2
 on the Selection Masking panel 371
 PACKAGE/DBRM
 on the Statement Costs panel 52
 PACKAGE/DBRM NAME
 on the EXPLAIN panel 110
 PACKLIST COLLECTION MASK 1
 on the Selection Masking panel 371
 PACKLIST COLLECTION MASK 2
 on the Selection Masking panel 371
 PACKLIST LOCATION MASK 1
 on the Selection Masking panel 371
 PACKLIST LOCATION MASK 2
 on the Selection Masking panel 371
 PACKLIST PACKAGE MASK 1
 on the Selection Masking panel 371
 PACKLIST PACKAGE MASK 2
 on the Selection Masking panel 371
 PAGESAVE
 on the Estimator panel 78
 on the Whatif panel 257
 PAGESAVE (TSTP)
 on the EXPLAIN panel 120
 PARENS
 on the Selection Masking panel 371
 PARNT
 on the Estimator panel 78
 on the EXPLAIN panel 120
 on the Whatif panel 257
 PART 43
 on the Column Distribution Statistics
 panel 43
 on the Table Columns panel 233
 PARTITION
 on the Estimator panel 78
 on the EXPLAIN panel 120
 on the Whatif panel 257
 PARTITIONS 257
 on the Estimator panel 78
 on the EXPLAIN panel 120
 on the Whatif panel 257
 PCTFREE
 on the Estimator panel 78
 on the EXPLAIN panel 120

fields (*continued*)

PCTFREE (*continued*)
 on the Whatif panel 257

PCTPAGES
 on the Estimator panel 78, 79
 on the Whatif panel 257

PCTPAGES (TSTP)
 on the EXPLAIN panel 121

PCTROWCOMP 257
 on the Estimator panel 79
 on the Whatif panel 257

PCTROWCOMP (TBL)
 on the EXPLAIN panel 121

PCTROWCOMP (TSTP)
 on the EXPLAIN panel 121

PD#TS
 on the PLANS panel 200

PERCACT
 on the Estimator panel 79
 on the EXPLAIN panel 121
 on the Whatif panel 257

PERCDROP
 on the Estimator panel 79
 on the EXPLAIN panel 121
 on the Whatif panel 258

PERMANENT
 on the BIND Compare Options panel 280
 on the Data Formats panel 287
 on the Exception Options panel 300
 on the EXPLAIN Defaults panel 305
 on the EXPLAIN/SQL Defaults panel 311
 on the Extract Processing Defaults
 panel 313
 on the Library Search Order panel 321
 on the Miscellaneous Defaults panel 324
 on the Output Options Defaults panel 327
 on the Panel Filters panel 336
 on the Panel Sorts panel 340
 on the Recommendations Panel 0 349
 on the Recommendations Panel 1 351
 on the Recommendations Panel 2 353
 on the Recommendations Panel 3 355
 on the Recommendations Panel 4 357
 on the Recommendations Panel 5 359
 on the Recommendations Panel 6 361
 on the Recommendations Panel 7 363
 on the Recommendations Panel 8 365
 on the Recommendations Panel 9 367
 on the Selection Masking panel 371
 on the SQL Defaults panel 378
 on the VSAM Tuning Parameters
 panel 384

fields (*continued*)

PERMANENT INDICATOR
 on the Panel Formats panel 338
 on the Set Defaults panel 375

PF (Prefetch) 140
 on the EXPLAIN Compare panel 140
 on the EXPLAIN panel 121

PG
 on the Extract History panel 150

PGSIZE
 on the Estimator panel 79
 on the EXPLAIN panel 121
 on the Whatif panel 258

PK#TS
 on the PLANS panel 200

PKG MASK#1
 on the Extract History panel 150

PKG MASK#2
 on the Extract History panel 150

PKG OPER
 on the Extract History panel 150

PKG POST
 on the Extract Processing Defaults
 panel 313

PKG PRE
 on the Extract Processing Defaults
 panel 313

PKGS
 on the Libraries panel 158

PKSIZE
 on the EXPLAIN panel 121
 on the Packages panel 177

PLAN 37, 244
 on the BIND/REBIND Plan panel 37
 on the EXPLAIN panel 121
 on the PLANS panel 200
 on the Verification panel 244

PLAN BINDSTAMP MASK 1
 on the Selection Masking panel 372

PLAN BINDSTAMP MASK 2
 on the Selection Masking panel 372

PLAN CREATOR
 on the DBRMs panel 62

PLAN Creator MASK 1
 on the Selection Masking panel 372

PLAN CREATOR MASK 2
 on the Selection Masking panel 372

PLAN FREED?
 on the EXPLAIN panel 121
 on the Plans panel 200

fields (*continued*)

PLAN HEADING
 on the DBRMs panel 62
 PLAN INFORMATION 218
 on the Statements panel 218
 PLAN MASK#1
 on the Extract History panel 150
 PLAN MASK#2
 on the Extract History panel 150
 PLAN MASK1
 on the Selection Masking panel 372
 PLAN MASK2
 on the Selection Masking panel 372
 PLAN NAME 140, 217
 on the EXPLAIN Compare panel 140
 on the Statements panel 217
 PLAN OPER
 on the Extract History panel 150
 PLAN OWNER MASK 1
 on the Selection Masking panel 372
 PLAN OWNER MASK 2
 on the Selection Masking panel 372
 PLAN POST
 on the Extract Processing Defaults
 panel 313
 PLAN PRE
 on the Extract Processing Defaults
 panel 313
 PLAN QUALIFIER MASK 1
 on the Selection Masking panel 372
 PLAN QUALIFIER MASK 2
 on the Selection Masking panel 372
 PLAN SIZE
 on the EXPLAIN panel 121
 PLAN TABLE ASSOCIATE NEW ONES?
 on the Extract Processing Defaults
 panel 314
 PLAN TABLE OWNER
 on the Set Defaults panel 375
 PLAN TABLE VARIANCE
 on the Extract Processing Defaults
 panel 314
 PLAN_TABLE EXTRACT DATASET DATA
 BUFFERS
 on the VSAM Tuning Parameters
 panel 384
 PLAN_TABLE EXTRACT DATASET DATA
 BUFFERS (FOR OUTPUT)
 on the VSAM Tuning Parameters
 panel 384

fields (*continued*)

PLAN_TABLE EXTRACT DATASET INDEX
 BUFFERS
 on the VSAM Tuning Parameters
 panel 384
 PLAN_TABLE EXTRACT DATASET INDEX
 BUFFERS (FOR OUTPUT)
 on the VSAM Tuning Parameters
 panel 384
 PLANS
 on the !DB/EXPLAIN Configuration
 Information panel 289
 PLANTABL OWNER
 on the Extract History panel 150
 PLENTRIES
 on the EXPLAIN panel 122
 on the Plans panel 200
 PLN NO.
 on the EXPLAIN panel 122
 PLSIZE
 on the Plans panel 201
 PQTY
 on the Estimator panel 79
 on the EXPLAIN panel 122
 on the Whatif panel 258
 PRECOMPILE DATE 219
 on the Statements panel 219
 PRECOMPILE DATE/TIME 147, 244
 on the DBRMs panel 62
 on the EXPLAIN History panel 147
 on the Verification panel 244
 PRECOMPILE DATE/TME
 on the Packages panel 177
 PRECOMPILE TIME
 on the EXPLAIN panel 122
 PRECOMPILE TIMESTAMP
 on the Statement Costs panel 53
 Prefetch 140
 on the EXPLAIN Compare panel 140
 on the EXPLAIN panel 121
 PREPARE
 from DBRMs 201
 from Packages 201
 on the DBRMs panel 62
 on the Packages panel 177
 on the Plans panel 201
 PREPARE STMTS TO OBTAIN COST
 on the EXPLAIN/SQL Defaults panel 311
 PRIMARY
 on the !DB/EXPLAIN Configuration
 Information panel 289

fields (*continued*)

- PROCESS BIND TYPE OPTIONS?
 - on the Exception Options panel 300
- PROCESS OBJECT TYPE OPTIONS?
 - on the Exception Options panel 301
- PROCESS SQL ERROR TYPE OPTIONS?
 - on the Exception Options panel 301
- PROCESS SQL TYPE OPTIONS?
 - on the Exception Options panel 301
- PROCESS XCPT TYPE OPTIONS?
 - on the Exception Options panel 302
- PROFILE dataset LIST
 - on the Housekeeping panel 318
- Profile Dataset Type 298
 - on the !DB/Tools Profile Dataset List panel 298
- PSID 258
 - on the Estimator panel 79
 - on the EXPLAIN panel 122
 - on the Whatif panel 258
- QBNO
 - on the EXPLAIN panel 122
- QBNO (Query Block Number) 140
 - on the EXPLAIN Compare panel 140
- QU (Quote)
 - on the DBRMs panel 62
 - on the Packages panel 177
- QUALIFIER 37
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 37
 - on the EXPLAIN panel 122
 - on the Package BIND Overrides panel 332
 - on the Packages panel 177
 - on the Plan BIND Overrides panel 344
 - on the Plans panel 201
- QUALIFY SYNONYMS WITH PLAN/PACKAGE QUALIFIER 375
 - on the Set Defaults panel 375
- Query Block Number 140
 - on the EXPLAIN Compare panel 140
- QUERY TEXT
 - on the EXPLAIN panel 123
- QUERY TYPE
 - on the EXPLAIN panel 141
- QUERYNO 140
 - on the EXPLAIN Compare panel 140
- Quote
 - on the DBRMs panel 62
 - on the EXPLAIN panel 123
 - on the Packages panel 177

fields (*continued*)

- RBA1
 - on the Estimator panel 79
 - on the Whatif panel 258
- RBA1 (TBL)
 - on the EXPLAIN panel 123
- RBA2
 - on the Estimator panel 79
 - on the Whatif panel 258
- RBA2 (TBL)
 - on the EXPLAIN panel 123
- RDATA CAPTURE (TBL)
 - on the EXPLAIN panel 110
- RE (Release)
 - on the Packages panel 177
 - on the Plans panel 201
- READ EXPLAIN IF OWNER CHANGED
 - on the EXPLAIN Defaults panel 305
- REAL CATALOG PREFIX
 - on the !DB/Tools DB2 Configuration Information panel 292
- RECLLEN
 - on the Estimator panel 79
 - on the EXPLAIN panel 123
 - on the Whatif panel 258
- RECOMMENDATION TEXT 219
 - on the Statements panel 219
- RELEASE 37
 - from DBRMs 201
 - from Packages 201
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 37
 - on the DBRMs panel 62
 - on the EXPLAIN panel 123
 - on the Package BIND Overrides panel 332
 - on the Packages panel 177, 178
 - on the Plan BIND Overrides panel 344
 - on the Plans panel 201
- RELEASE (All)
 - on the Plans panel 201
- RELEASE VERSION
 - on the BIND/REBIND Package panel 28
- REMOTE
 - on the EXPLAIN panel 123
 - on the Packages panel 178
- REMOTE ENABLE
 - on the Package Bind Overrides panel 332
 - on the Plan Bind Overrides panel 344
- REMOTE ENABLE? 37
 - on the BIND/REBIND Plan panel 37

fields (*continued*)

- REOPT(VAR)
 - on the Packages panel 178
- REOPT(VAR)(Packages)
 - on the EXPLAIN panel 124
- REOPT(VAR)(Plans)
 - on the EXPLAIN panel 124
- REOPT(VARS) 37
 - on the BIND/REBIND Package panel 28
 - on the BIND/REBIND Plan panel 37
 - on the Package BIND Overrides panel 332
 - on the Plan BIND Overrides panel 344
- REQUIRE ALL DBRMS FOR A PLAN?
 - on the EXPLAIN Defaults panel 305
- REQUIRE ALL PACKAGES FOR A PLAN?
 - on the EXPLAIN Defaults panel 305
- RESEARCH VIEWS AND ALIASES
 - on the EXPLAIN Defaults panel 305
- RETAIN 37
 - on the BIND/REBIND Plan panel 37
 - on the Plan BIND Overrides panel 345
- RETAIN EXPLAIN DISPLAY?
 - on the EXPLAIN Defaults panel 306
- RETAIN STATISTICS FOR REUSE?
 - on the EXPLAIN Defaults panel 306
- REVOKE
 - from DBRMs 201
 - from Packages 201
 - on the DBRMs panel 62
 - on the Packages panel 178
 - on the Plans panel 201
- RHS
 - on the SQL Formats for KTEXPL panel 381
- RM (Remote)
 - on the Packages panel 178
- ROLLBACK
 - from DBRMs 202
 - from Packages 202
 - on the DBRMs panel 62
 - on the Packages panel 178
 - on the Plans panel 201, 202
- RO(REOPTVAR)
 - from Packages 201
 - on the Plans panel 201
- SAVE EXPLAIN IF OWNER CHANGED
 - on the EXPLAIN Defaults panel 306
- SAVE EXPLAIN RESULTS?
 - on the EXPLAIN Defaults panel 306
- SAVE VALUES PERMANENTLY? 219
 - on the Host Variables panel 219

fields (*continued*)

- SAVE WHATIF RESULTS?
 - on the EXPLAIN Defaults panel 306
- SCALE 219
 - on the Host Variables panel 219
 - on the Table Columns panel 233
- SE (SQLERROR)
 - on the Packages panel 178
- SEARCH ORDER
 - on the Library Search Order panel 321
- SEGSIZE
 - on the Estimator panel 80
 - on the EXPLAIN panel 124
 - on the Whatif panel 258
- SELECTS
 - from DBRMs 202
 - from Packages 202
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 202
 - on the Tables panel 241
- SEQNO
 - on the Plan Package List panel 186
- Sequential Prefetch
 - on the Statement Costs panel 54
- SERVER 258
 - on the Estimator panel 79
 - on the EXPLAIN panel 124
 - on the Plans panel 202
 - on the Whatif panel 258
- SET
 - from DBRMs 202
 - from Packages 202
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 202
- SET CONNECT
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 202
- SET CURRENT DEGREE 375
 - on the Set Defaults panel 375
- SET DEGREE
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 202, 203
- SET EXCEPTION RC FOR EXPLAIN
 - on the Miscellaneous Defaults panel 324
- SET EXCEPTION RC FOR RECOMMEND
 - on the Miscellaneous Defaults panel 324

fields (*continued*)

- SET EXCEPTION RC FOR XCPT
 - on the Miscellaneous Defaults panel 324
- SET HOST
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 203
- SET O
 - on the Set Defaults panel 376
- SET PKGSET
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 203
- SET RULES
 - on the DBRMs panel 63
 - on the Packages panel 179
 - on the Plans panel 203
- SET SQLID
 - on the DBRMs panel 63
 - on the Packages panel 179
 - on the Plans panel 203
- SG (Sorts - Group By)
 - on the Statement Costs panel 53
- SHOW ALL PLAN_TABLE ROWS?
 - on the EXPLAIN Defaults panel 306
- SJ (Sorts - Join)
 - on the Statement Costs panel 54
- SKELS dataset 294
 - on the !DB/Tools Global Configuration Information panel 294
- SO (Sorts - Order By)
 - on the Statement Costs panel 54
- SORT COMMAND
 - on the Panel Sorts panel 340
- SORT TYPE
 - on the Panel Sorts panel 340
- Sorts - Group By
 - on the Statement Costs panel 53
- Sorts - Join
 - on the Statement Costs panel 54
- Sorts - Order By
 - on the Statement Costs panel 54
- Sorts - Total
 - on the Statement Costs panel 54
- Sorts - Unique
 - on the Statement Costs panel 54
- SPACE 258, 259
 - on the Estimator panel 80
 - on the EXPLAIN panel 124
 - on the Whatif panel 258, 259

fields (*continued*)

- SPACE (IXP)
 - on the EXPLAIN panel 124
- SPACE (TSTP)
 - on the EXPLAIN panel 124
- SPECIFY...TO DETERMINE WHEN TWO PACKAGES ARE THE SAME
 - on the Build Tuning Parameters panel 283
- SPF (Sequential Prefetch)
 - on the Statement Costs panel 54
- SQ
 - on the Plans panel 204
- SQL DELIMITER
 - on the SQL Formats for KTEXPL panel 381
- SQL STRING DELIMITER FOR KTEXPL
 - on the SQL Defaults panel 378
- SQL TEXT 220
 - on the EXPLAIN panel 124
 - on the Statements panel 220
- SQLCODE
 - on the EXPLAIN panel 124
- SQLERR
 - on the EXPLAIN panel 125
- SQLERROR 332
 - on the BIND/REBIND Package panel 28
 - on the EXPLAIN panel 125
 - on the Package BIND Overrides panel 332
 - on the Packages panel 178
- SQLRULES 37
 - on the BIND/REBIND Plan panel 37
 - on the EXPLAIN panel 125
 - on the Plan BIND Overrides panel 345
 - on the Plans panel 204
- SQLSTATE
 - on the EXPLAIN panel 124
- SQTY
 - on the Estimator panel 80
 - on the EXPLAIN panel 125
 - on the Whatif panel 259
- SR
 - on the Extract History panel 150
- SRC G
 - on the EXPLAIN panel 125
- SRC G (Sorts - Group By) 141
 - on the composite table 141
 - on the EXPLAIN Compare panel 141
- SRC ID
 - on the EXPLAIN Compare panel 141
 - on the EXPLAIN panel 125

fields (*continued*)

SRC J
 on the EXPLAIN panel 125
 SRC J (Sort - Join) 141
 on the composite table 141
 on the EXPLAIN Compare panel 141
 SRC O
 on the EXPLAIN panel 125
 SRC O(Sort - Order By) 141
 on the composite table 141
 on the EXPLAIN Compare panel 141
 SRC U
 on the EXPLAIN panel 125
 SRC U (Sort - Unique) 141
 on the composite table 141
 on the EXPLAIN Compare panel 141
 SRN G
 on the EXPLAIN panel 126
 SRN G (Sorts - Group By) 142
 on the EXPLAIN Compare panel 142
 on the new table 142
 SRN ID
 on the EXPLAIN Compare panel 142
 on the EXPLAIN panel 126
 SRN J
 on the EXPLAIN panel 126
 SRN J (Sort - Join) 142
 on the EXPLAIN Compare panel 142
 on the new table 142
 SRN O
 on the EXPLAIN panel 126
 SRN O (Sort - Order By) 142
 on the EXPLAIN Compare panel 142
 on the new table 142
 SRN U
 on the EXPLAIN panel 126
 SRN U (Sort - Unique) 142
 on the EXPLAIN Compare panel 142
 on the new table 142
 SRT (Sorts - Total)
 on the Statement Costs panel 54
 STATEMENT COST
 on the EXPLAIN panel 126
 STATEMENT TYPE
 on the EXPLAIN panel 126
 STATEMENTS
 on the !DB/EXPLAIN Configuration
 Information panel 289
 on the Packages panel 179
 STATEMENTS EXTRACT DATASET DATA
 BUFFERS

fields (*continued*)

STATEMENTS EXTRACT DATASET DATA
 BUFFERS (*continued*)
 on the VSAM Tuning Parameters
 panel 384
 STATEMENTS EXTRACT DATASET
 INDEX BUFFERS
 on the VSAM Tuning Parameters
 panel 384
 STATS TIMESTAMP
 on the Column Distribution Statistics
 panel 43
 on the Table Columns panel 233
 STATSTS 259
 on the Estimator panel 80
 on the Whatif panel 259
 STATSTS (IX)
 on the EXPLAIN panel 127
 STATSTS (IXP)
 on the EXPLAIN panel 127
 STATSTS (TBL)
 on the EXPLAIN panel 127
 STATSTS (TS)
 on the EXPLAIN panel 127
 STATSTS (TSTP)
 on the EXPLAIN panel 127
 STATSTSP
 on the Estimator panel 80
 on the Whatif panel 259
 STATSTSP (IXP)
 on the EXPLAIN panel 127
 STATSTSP (TSTP)
 on the EXPLAIN panel 127
 STATUS 244
 on the Estimator panel 81
 on the EXPLAIN panel 127
 on the Libraries panel 158
 on the Verification panel 244
 on the Whatif panel 259, 260
 STMT COST
 on the EXPLAIN Compare panel 142
 on the EXPLAIN History panel 147
 on the EXPLAIN panel 127
 STMT NO. 142
 on the EXPLAIN Compare panel 142
 STMTNO 220
 on the EXPLAIN panel 127
 on the Statements panel 220
 STMTS
 on the DBRMs panel 63
 on the Packages panel 179

fields (*continued*)

STMTS (*continued*)
 on the PLANS panel 204
 STORAGE AMOUNT FOR KTEXPL
 on the SQL Defaults panel 378
 STORNAME 260
 on the Estimator panel 81
 on the EXPLAIN panel 128
 on the Whatif panel 260
 STORTYPE
 on the Estimator panel 81
 on the EXPLAIN panel 128
 on the Whatif panel 260
 ST(STATUS) 220
 on the Statements panel 220
 SU (Sorts - Unique)
 on the Statement Costs panel 54
 SUBPAG=
 on the EXPLAIN panel 128
 SUFFIX TO USE FOR PLAN BIND
 COMPARE
 on the BIND Compare Options panel 280
 SUPPRESS INFO MESSAGES IN BATCH?
 on the Miscellaneous Defaults panel 324
 SYSENTRIES
 from packages 128
 from plans 128
 on the EXPLAIN panel 128
 on the Plans panel 204
 SYSENTRY
 on the Packages panel 179
 SYSOUT HOLD CLASS 294
 on the !DB/Tools Global Configuration
 Information panel 294
 SYSTEM 38
 on the BIND/REBIND Package panel 28
 on the BIND/REBIND Plan panel 38
 on the Package Connections panel 165
 on the Plan Connections panel 184
 SYSTEM PDS
 on the !DB/EXPLAIN Configuration
 Information panel 289
 TABLE NAME 217
 on the Statements panel 217
 TABLE ROW/INDEX
 on the Estimator panel 81
 Table Space Scan
 on the Statement Costs panel 54
 TABLE=
 on the Column Distribution Statistics
 panel 43

fields (*continued*)

TABLE= (*continued*)
 on the Table Columns panel 233
 TABLES dataset 294
 on the !DB/Tools Global Configuration
 Information panel 294
 TBCREATR
 on the Estimator panel 81
 on the EXPLAIN panel 128
 on the Whatif panel 260
 TBL 260
 on the Estimator panel 81
 on the EXPLAIN panel 128
 on the Whatif panel 260
 TBL=
 on the EXPLAIN panel 128
 TBNAME 260
 on the Estimator panel 82
 on the EXPLAIN panel 129
 on the Whatif panel 260
 TEMP DISK SYMBOLIC NAME 294
 on the !DB/Tools Global Configuration
 Information panel 294
 TIME
 on the Data Formats panel 287
 TIMESTAMP
 on the Data Formats panel 287
 on the Extract History panel 150
 on the Plan Package List panel 186
 TOTAL STATEMENT
 on the Tables panel 241
 TOTAL STATEMENT COST
 on the DBRMs panel 63
 on the Packages panel 179
 on the Statement Costs panel 54
 TOTAL STMT
 on the Tables panel 241
 TOTAL STMT COST
 on the DBRMs panel 63
 on the Packages panel 179
 on the Statement Costs panel 54
 TS
 on the Estimator panel 82
 on the EXPLAIN panel 129
 on the Whatif panel 260
 TS (Table Space Scan)
 on the Statement Costs panel 54
 TSLOCKMODE
 on the Statement Costs panel 52
 TSTP 260
 on the Estimator panel 82

fields (*continued*)

- TSTP (*continued*)
 - on the EXPLAIN panel 129
 - on the Whatif panel 260
- TY
 - on the Extract History panel 150
- TYPE 261
 - on the Estimator panel 82
 - on the EXPLAIN History panel 147
 - on the EXPLAIN panel 129
 - on the Whatif panel 261
- TYPE OF SQL TO ISSUE
 - on the EXPLAIN/SQL Defaults panel 311
- UNIQUE
 - on the Estimator panel 82
 - on the EXPLAIN panel 129
 - on the Whatif panel 261
- UPDATE PROFILE DATASET?
 - on the Extract Processing Defaults panel 314
- UPDATES
 - from DBRMs 204
 - from Packages 204
 - on the DBRMs panel 63
 - on the Packages panel 179
 - on the Plans panel 204
 - on the Tables panel 241
- USE DATASPACE?
 - on the Miscellaneous Defaults panel 325
- USE LIBRARY SEARCH ORDER FOR COMMAND?
 - on the Package Bind Overrides panel 333
 - on the Plan Bind Overrides panel 345
- USE LIBRARY SEARCH ORDER FOR COMPARE?
 - on the Package Bind Overrides panel 333
 - on the Plan Bind Overrides panel 345
- USE LIBRARY SEARCH ORDER FOR CONVERT?
 - on the Package Bind Overrides panel 333
 - on the Plan Bind Overrides panel 345
- USE LIBRARY SEARCH ORDER FOR SELECT?
 - on the Package Bind Overrides panel 333
 - on the Plan Bind Overrides panel 345
- USE MEMBER LISTS?
 - on the Online Menu panel 161
- USE OVERRIDES FOR COMMAND?
 - on the Package Bind Overrides panel 333
 - on the Plan Bind Overrides panel 345

fields (*continued*)

- USE OVERRIDES FOR COMPARE?
 - on the Package Bind Overrides panel 334
 - on the Plan Bind Overrides panel 346
- USE OVERRIDES FOR CONVERT?
 - on the Package Bind Overrides panel 334
 - on the Plan Bind Overrides panel 346
- USE OVERRIDES FOR SELECT?
 - on the Package Bind Overrides panel 334
 - on the Plan Bind Overrides panel 346
- USE PACKAGE BIND OR CREATE
TIMESTAMP IN DETERMINING
RELATIVE AGES
 - on the Build Tuning Parameters panel 283
- USE REAL CATALOG TABLES FOR UPDT
 - on the Miscellaneous Defaults panel 325
- Use This Dataset? 298
 - on the !DB/Tools Profile Dataset List panel 298
- USER PDS
 - on the !DB/EXPLAIN Configuration Information panel 289
- USER PDS TO SAVE DIFFERENCES IN
 - on the BIND Compare Options panel 280
- USER PDS TO SAVE ERRORS IN
 - on the BIND Compare Options panel 280
- USER PDS TO SAVE SAMES IN
 - on the BIND Compare Options panel 280
- UTIL dataset 294
 - on the !DB/Tools Global Configuration Information panel 294
- VA (Validate)
 - on the Packages panel 179
 - on the Plans panel 204
- VALID
 - from packages 129
 - from plans 129
 - on the EXPLAIN panel 129
 - on the Packages panel 179
 - on the Plans panel 205
- VALIDATE 38
 - from packages 130
 - from plans 130
 - on the BIND/REBIND Package panel 28
 - on the BIND/REBIND Plan panel 38
 - on the EXPLAIN panel 130
 - on the Package BIND Overrides panel 334
 - on the Packages panel 179
 - on the Plan BIND Overrides panel 346
 - on the Plans panel 204

fields (*continued*)

- VALPROC
 - on the Estimator panel 82
 - on the EXPLAIN panel 130
 - on the Whatif panel 261
- VALUE 218
 - on the Column Distribution Statistics panel 43
 - on the DBRM panel 63
 - on the Host Variables panel 218
- VCATNAME
 - on the Estimator panel 82
 - on the EXPLAIN panel 130
 - on the Whatif panel 261
- VD (Valid)
 - on the Packages panel 179
 - on the Plans panel 205
- Verification
 - on the Packages panel 179
 - on the Plans panel 205
- VERSION 142, 221, 244
 - of the DBRM or Package 130
 - on the BIND/REBIND Package panel 28
 - on the DBRMs panel 63
 - on the EXPLAIN Compare panel 142
 - on the EXPLAIN History panel 147
 - on the EXPLAIN panel 130
 - on the Packages panel 179
 - on the Statement Costs panel 54
 - on the Statements panel 221
 - on the Verification panel 244
- VIO SYMBOLIC NAME 294
 - on the !DB/Tools Global Configuration Information panel 294
- VL (Value)
 - on the DBRM panel 63
- VL (Verification)
 - on the Packages panel 179
 - on the Plans panel 205
- WARNING MESSAGE FOR NO EPX AUTH?
 - on the Miscellaneous Defaults panel 325
- WHEN TO CONSIDER TWO DBRMS TO BE THE SAME DBRM
 - on the Build Tuning Parameters panel 283
- WHENEVER
 - from DBRMs 205
 - from Packages 205
 - on the DBRMs panel 63
 - on the Packages panel 179
 - on the Plans panel 205

fields (*continued*)

- WO
 - on the EXPLAIN panel 130, 142
- WORK SIZE FOR SQL RESULTS
 - on the SQL Defaults panel 378
- XCPT
 - on the Recommendations Panel 1 351
 - on the Recommendations Panel 2 353
 - on the Recommendations Panel 3 355
 - on the Recommendations Panel 4 357
 - on the Recommendations Panel 5 359
 - on the Recommendations Panel 6 361
 - on the Recommendations Panel 7 363
 - on the Recommendations Panel 8 365
 - on the Recommendations Panel 9 368
- FILTER TYPE field
 - on the Panel Filters panel 336
- FIRSTKEY field
 - on the Estimator panel 75
 - on the EXPLAIN panel 114
 - on the Whatif panel 254
- FIRSTKEY (IXP) field
 - on the EXPLAIN panel 114
- FLAG field 36
 - on the BIND Plan Overrides panel 344
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 36
 - on the Package BIND Overrides panel 332
- FLDPROC field
 - on the Table Columns panel 230
- FN (Function) field
 - on the EXPLAIN Compare panel 138
 - on the EXPLAIN panel
- FOR SQL EXECUTION field
 - on the !DB/EXPLAIN Configuration Information panel 289
- FORCE XUPDT WHEN EXPLAINING? field
 - on the EXPLAIN Defaults panel 305
- FOREIGNKEY field
 - on the Table Columns panel 230
- FORMAT
 - on the SQL Formats for KTEXPL panel 380
- FORMAT # field
 - on the Panel Formats panel 338
- FORMAT OF THE INPUT FILE field
 - on the SQL Formats for KTEXPL panel 380
- FORMAT0 DISPLAY? field
 - on the EXPLAIN Display Tuning Parameters panel 309

FREED? field
 on the Packages panel 175
 on the Plans panel 198

FREEPAGE field
 on the Estimator panel 75
 on the EXPLAIN panel 114
 on the Whatif panel 254

FREQ% field
 on the Column Distribution Statistics panel 43

FROM TABLE identifier
 on the EXPLAIN panel 114

FULLKEY field
 on the Estimator panel 75
 on the EXPLAIN panel 114
 on the Whatif panel 254

FULLKEY (IXP) field
 on the EXPLAIN panel 114

FUNCTION field
 on the Administration Menu panel 22
 on the EXPLAIN Compare panel 138
 on the EXPLAIN panel 114
 on the Online Menu panel 161
 on the Primary Menu panel 210

function keys
 documentation conventions 11

G

GBPCACHE (IXP) field
 on the Estimator panel 75
 on the EXPLAIN panel 114
 on the Whatif panel 254

GBPCACHE (TSTP) field
 on the Estimator panel 76
 on the EXPLAIN panel 115
 on the Whatif panel 254

GEN PKLIST
 on the Plan Bind Overrides panel 344

GENERATE BIND/REBIND FOR DIFFERENT PATHS? field
 on the BIND Compare Options panel 279

GENERATE BIND/REBIND FOR SAME PATHS? field
 on the BIND Compare Options panel 279

GENERATE PLAN OR PACKAGE BINDS FOR DBRMS? field
 on the BIND Compare Options panel 279

GENERATE UPDATE IF NO STATISTICS? field
 on the Miscellaneous Defaults panel 324

GENERATE? field
 on the EXPLAIN Display Tuning Parameters panel 309

GENERATIONS OF CATALOG HISTORY field
 on the Extract Processing Defaults panel 313

GENERATIONS OF EXPLAIN HISTORY field
 on the Extract Processing Defaults panel 313

GNSR, Number of field
 on the Extract History panel 150

GRANT field
 from DBRMs 199
 from Packages 199
 on the DBRMs panel 61
 on the Packages panel 175
 on the Plans panel 199

Group By sorts
 on the composite table 141
 on the EXPLAIN Compare panel 141, 142
 on the new table 142
 on the Statement Costs panel 53

GROUP MEMBER field
 on the Packages panel 175
 on the Plans panel 199

GROUP MEMBER= field
 on the EXPLAIN panel 115

H

HBJ (Hybrid Join) field
 on the Statement Costs panel 52

HIGH LEVEL QUALIFIER#1 field
 on the Library Search Order panel 321

HIGH LEVEL QUALIFIER#2 field
 on the !DB/Tools Global Configuration Information panel 294
 on the Library Search Order panel 321

HIGH LEVEL QUALIFIER#3 field
 on the Library Search Order panel 321

HIGH LEVEL QUALIFIER#4 field
 on the Library Search Order panel 321

HIGH2KEY NULL field
 on the Table Columns panel 231

HIGH2KEY VALUE field
 on the Table Columns panel 231

Index

- HIGHKEY NULL field
 - on the Table Columns panel 230
- HIGHKEY VALUE field
 - on the Table Columns panel 230
- history 149
 - Compare History panel 45
 - EXPLAIN History panel 144
 - Extract History panel 149
- HL (Hostlang) field
 - on the DBRMs panel 61
 - on the Packages panel 176
- HOST VARIABLE FLAG field
 - on the SQL Formats for KTEXPL panel 380
- HOST VARIABLE NAME field
 - on the Host Variables panel 217
- host variables 311
- Hostlang field
 - on the DBRMs panel 61
 - on the EXPLAIN panel 115
 - on the Packages panel 176
- housekeeping 275
- housekeeping and customization panels 273
- Housekeeping panel 315
- Hybrid Join field
 - on the Statement Costs panel 52
- I**
- I 187, 188
- I1 (One-Fetch Index Scan) field
 - on the Statement Costs panel 52
- IMPACT
 - compared to CEXPL 47
- IMPLICIT field
 - on the Estimator panel 76
 - on the EXPLAIN panel 115
 - on the Whatif panel 254
- IN keyword
 - on the Statement Costs panel 53
- INCLUDE DRRM? field 36
 - on the BIND/REBIND Plan panel 36
- INCLUDE PACKAGE LIST? field 36
 - on the BIND/REBIND Plan panel 36
- Index keys panels 153
 - KTE3CKSE 153
 - KTEPCKEY 153
- Index Only field
 - on the EXPLAIN Compare panel 139
- Index Scan for IN field
 - on the Statement Costs panel 53
- Index Scans on Index field
 - on the Statement Costs panel 53
- INDEXNAME field
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 115
- INDEXSPACE field
 - on the Estimator panel 76
 - on the EXPLAIN panel 115
 - on the Whatif panel 255
- INDEXTYPE field
 - on the Estimator panel 76
 - on the EXPLAIN panel 115
 - on the Whatif panel 255
- INITIAL CMD field
 - on the Panel Formats panel 338
- INSERTS field
 - from DBRMs 199
 - from Packages 199
 - on the DBRMs panel 61
 - on the Packages panel 176
 - on the Plans panel 199
 - on the Tables panel 241
- INTERLEAVE PACKAGES IN REPORT? field
 - on the EXPLAIN Defaults panel 305
- IS field
 - on the Statements panel 218
- IS (Isolation) field
 - on the Packages panel 176
 - on the Plans panel 199
- ISOBID field
 - on the Estimator panel 76
 - on the EXPLAIN panel 115
 - on the Whatif panel 255
- ISOLATION field 36
 - from packages 116
 - from plans 116
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 36
 - on the EXPLAIN panel 116
 - on the Package BIND Overrides panel 332
 - on the Packages panel 176
 - on the Plan BIND Overrides panel 344
 - on the Plans panel 199
- ISSUE SQL CALLS IN PARSER EXIT field
 - on the EXPLAIN/SQL Defaults panel 311
- ISSUE WTOR
 - on the VSAM Tuning Parameters panel 383

ISSUE XUPDPT AFTER FREEING
 INTERMEDIATE STORAGE field
 on the VSAM Tuning Parameters panel 383

IX field
 on the Estimator panel 76
 on the EXPLAIN panel 116
 on the Whatif panel 255

IX (Index Only) field
 on the EXPLAIN Compare panel 139

IXCREATOR field
 on the Estimator panel 76
 on the EXPLAIN panel 116
 on the Keys panel 154
 on the Whatif panel 255

IXNAME field
 on the Estimator panel 76
 on the EXPLAIN panel 116
 on the Keys panel 154
 on the Whatif panel 255

IXP field
 on the Estimator panel 76
 on the EXPLAIN panel 116
 on the Whatif panel 255

J

J T= field
 on the EXPLAIN Compare panel 139
 on the EXPLAIN panel 116

JDG (Number of Join Degrees) field
 on the Statement Costs panel 52

JOI DEG field
 on the EXPLAIN Compare panel 139
 on the EXPLAIN panel 116

JOI PID field
 on the EXPLAIN Compare panel 139
 on the EXPLAIN panel 116

JOIN OF CATALOG TABLES FOR STATS
 field
 on the EXPLAIN Defaults panel 305

Join sorts
 on the composite table 141
 on the EXPLAIN Compare panel 141, 142
 on the new table 142
 on the Statement Costs panel 54

K

K#TS field
 on the Packages panel 176

KD(KEEPDYNAMICS) field
 from Packages 199
 on the Plans panel 199

KEEP PLAN_TABLE EXTRACT DATASET
 OPEN FOR UPDATE field
 on the VSAM Tuning Parameters panel 383

KEEPDYNAMIC field 36
 on the BIND/REBIND Package panel 27
 on the BIND/REBIND Plan panel 36
 on the Package BIND Overrides panel 332
 on the Packages panel 176
 on the Plan BIND Overrides panel 344

KEEPDYNAMIC (Packages) field
 on the EXPLAIN panel 117

KEEPDYNAMIC (Plans) field
 on the EXPLAIN panel 117

KEYCNT field
 on the Estimator panel 76
 on the Whatif panel 255

KEYCNT (IXP) field
 on the EXPLAIN panel 117

KEYCOLUMNS field
 on the Estimator panel 76
 on the EXPLAIN panel 117
 on the Whatif panel 255

KEYOBID field
 on the Estimator panel 77
 on the EXPLAIN panel 117
 on the Whatif panel 255

Keys panels 153

KEYSEQ field
 on the Table Columns panel 231

KEYSIZE field
 on the Estimator panel 77

KTBPBODB 290

KTBPBHOGL 293

KTCPDBDS 295

KTCPPRF0 297

KTE3CKSE 153

KTE3SSUP 70

KTE3TCFR 226

KTE3TCSE 226

KTEKCON 164

KTEPADMN 21

Index

- KTEPBIDB 31
- KTEPBIKA 23
 - On the BIND/REBIND Package panel 25
- KTEPBIKC 25
- KTEPBILI 32
- KTEPBIPC 32
- KTEPBIPK 33
- KTEPBIPL 29
- KTEPCDI2 42
- KTEPCDIS 42
- KTEPCKEY 153
- KTEPCLTN 39
- KTEPCMPR 134
- KTEPCOST 49
- KTEPDBIN 59
- KTEPDBRM 56
- KTEPESTM 67
- KTEPEXPL 95
- KTEPHIDL 146
- KTEPHIST 144
- KTEPHOAD 288
- KTEPHOBC 277
- KTEPHOBK 328
- KTEPHOBP 341
- KTEPHOCO 284
- KTEPHODF 335
- KTEPHODS 377
- KTEPHOEP 312
- KTEPHOEX 303
- KTEPHOLS 319
- KTEPHOMF 286
- KTEPHOMI 310
- KTEPHOMJ 322
- KTEPHOMK 369
- KTEPHOOD 326
- KTEPHOPF 337
- KTEPHOPS 339
- KTEPHOR0 348
- KTEPHOR1 350
- KTEPHOR2 352
- KTEPHOR3 354
- KTEPHOR4 356, 358, 360, 362
- KTEPHOR8 364
- KTEPHORM 347
- KTEPHOSE 373
- KTEPHOSQ 379
- KTEPHOUS 315
- KTEPHOVB 382
- KTEPHOVC 281
- KTEPHOXC 366
- KTEPHOXO 299
- KTEPJHIS 45
- KTEPKAIN 171
- KTEPLIBR 155
- KTEPMENU 209
- KTEPMEON 160
- KTEPOUTP 162
- KTEPPACK 166
- KTEPPCON 183
- KTEPPKPL 185
- KTEPPLAN 187
- KTEPPVER 243
- KTEPSSSG 70
- KTEPSTMT 212
- KTEPSWCH 211
- KTEPTABL 240
- KTEPTCOL 226, 227, 229
- KTEPWHIF 245
- KTEPXAUB 151
- KTEPXCPT 93
- KTEPXHST 149
- KTEXPL OWNER FOR SYNONYMS field
 - on the Set Defaults panel 375

L

- LANG TYPE field
 - on the SQL Formats for KTEXPL panel 381
- LCK field
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 117
- LCK SHR field
 - from DBRMs 199
 - from Packages 199
 - on the DBRMs panel 62
 - on the Packages panel 176
 - on the Plans panel 199
- LCK (TSLOCKMODE) field
 - on the Statement Costs panel 52
- LCK XCL field
 - from DBRMs 200
 - from Packages 200
 - on the DBRMs panel 62
 - on the Packages panel 176
 - on the Plans panel 199, 200

- LEAFDIST field
 - on the Estimator panel 77
 - on the EXPLAIN panel 117
 - on the Whatif panel 255
- LENGTH field
 - on the Host Variables panel 218
 - on the Table Columns panel 231
- LERR (Library Error) field
 - on the Libraries panel 158
- LEVEL field
 - on the Recommendations Panel 1 351
 - on the Recommendations Panel 2 353
 - on the Recommendations Panel 3 355
 - on the Recommendations Panel 4 357
 - on the Recommendations Panel 5 359
 - on the Recommendations Panel 6 361
 - on the Recommendations Panel 7 363
 - on the Recommendations Panel 8 365
 - on the Recommendations Panel 9 367
- LHS field
 - on the SQL Formats for KTEXPL panel 381
- Libraries panel 155
- Library Error field
 - on the Libraries panel 158
- LIBRARY field
 - on the BIND/REBIND Package panel 27
 - on the DBRMs panel 62
 - on the EXPLAIN panel 117
 - on the Packages panel 176
- LIBRARY NAME field 36
 - on the BIND/REBIND Plan panel 36
 - on the Output Options panel 163
 - on the Verification panel 244
- Library Names panel 32
- Library Search Order panel 319
- List Prefetch field
 - on the Statement Costs panel 52
- LOAD Library field
 - on the !DB/Tools Global Configuration Information panel 294
- LOCATION field 36, 186
 - from packages 117
 - on the BIND/REBIND Plan panel 36
 - on the Collections panel 40
 - on the Estimator panel 77
 - on the EXPLAIN panel 117, 118
 - on the Package BIND Overrides panel 332
 - on the Plan Package List panel 186
 - on the Tables panel 241
 - on the Verification panel 244
- LOCATION field (*continued*)
 - on the Whatif panel 255
- LOCATION NAME field
 - on the BIND/REBIND Package panel 27
- LOCK SHRS field
 - on the Tables panel 241
- LOCK XCLS field
 - on the Tables panel 241
- LOCKMAX field
 - on the Estimator panel 77
 - on the EXPLAIN panel 118
 - on the Whatif panel 255
- LOCKRULE field
 - on the Estimator panel 77
 - on the EXPLAIN panel 118
 - on the Whatif panel 256
- LOCKS (SHR) field
 - from DBRMs 199
 - from Packages 199
 - on the DBRMs panel 62
 - on the Packages panel 176
 - on the Plans panel 199
 - on the Tables panel 241
- LOCKS (XCL) field
 - from DBRMs 200
 - from Packages 200
 - on the DBRMs panel 62
 - on the Packages panel 176
 - on the Plans panel 199, 200
 - on the Tables panel 241
- LOG BATCH BIND, REBIND AND FREE? field
 - on the Miscellaneous Defaults panel 324
- LOG PDS field
 - on the !DB/EXPLAIN Configuration Information panel 289
- LOW LEVEL QUALIFIER#1 field
 - on the Library Search Order panel 321
- LOW LEVEL QUALIFIER#2 field
 - on the Library Search Order panel 321
- LOW LEVEL QUALIFIER#3 field
 - on the Library Search Order panel 321
- LOW LEVEL QUALIFIER#4 field
 - on the Library Search Order panel 321
- LOW2KEY NULL field
 - on the Table Columns panel 232
- LOW2KEY VALUE field
 - on the Table Columns panel 232

Index

- LOWKEY NULL field
 - on the Table Columns panel 232
- LOWKEY VALUE field
 - on the Table Columns panel 232
- LPF (List Prefetch) field
 - on the Statement Costs panel 52

- M**
- MAINTAIN KEY RATIO IN ESTIMATOR? field
 - on the Miscellaneous Defaults panel 324
- MAKE STATISTICS PERMANENT? field
 - on the Whatif panel 256
- MASK OUT ANY PACKAGES NOT IN THE SPECIFIED SET OF PLANS?
 - on the Selection Masking panel 370
- MASKING IN EFFECT? field
 - on the Primary Menu panel 210
- Matching Index Scan field
 - on the Statement Costs panel 52
- MAX BLKSIZE for VIO
 - on the !DB/Tools Global Configuration Information panel 294
- MAX LENGTH FOR HOST VAR INPUT field
 - on the SQL Defaults panel 378
- MAX NUMBER OF XUPDT VSAM ERRORS field
 - on the Extract Processing Defaults panel 313
- MAX STMT COST field
 - on the DBRMs panel 62
- MAXIMUM STATEMENT COST field
 - on the DBRMs panel 62
 - on the Packages panel 176
 - on the Statement Costs panel 52
- MAXIMUM STMT COST field
 - on the Packages panel 176
 - on the Statement Costs panel 52
- ME (Method) field
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 118
- MEMBER field
 - on the Output Options panel 163
- MEMBER NAME field
 - on the Output Options Defaults panel 327
- MEMBERS HEADING Number field
 - on the Libraries panel 158
- Merge Scan Join field
 - on the Statement Costs panel 53
- MERGE SINGLE STATEMENT EXPLAINS field
 - on the EXPLAIN Defaults panel 305
- Method field
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 118
- MI (Multiple Index Intersection) field
 - on the Statement Costs panel 52
- MID LEVEL QUALIFIER#1 field
 - on the Library Search Order panel 321
- MID LEVEL QUALIFIER#2 field
 - on the Library Search Order panel 321
- MID LEVEL QUALIFIER#3 field
 - on the Library Search Order panel 321
- MID LEVEL QUALIFIER#4 field
 - on the Library Search Order panel 321
- MIS (Matching Index Scan) field
 - on the Statement Costs panel 52
- Miscellaneous Defaults panel 322
- Mixed field
 - on the DBRMs panel 62
 - on the EXPLAIN panel 118
 - on the Packages panel 177
- MJCL field
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 118
- MOD ONTO MEMBERS? field
 - on the Output Options Defaults panel 327
- MODIFY ONTO MEMBER field
 - on the Output Options panel 163
- MODIFY ONTO USER PDS MEMBERS? field
 - on the BIND Compare Options panel 279
- MORE CONNECTIONS? field 36
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 36
- MORE DRRMs? field 36
 - on the BIND/REBIND Plan panel 36
- MORE LIBRARIES field 36
 - on the BIND/REBIND Plan panel 36
- MORE PACKAGE LISTS? field 37
 - on the BIND/REBIND Plan panel 37
- MSGs dataset field
 - on the !DB/Tools Global Configuration Information panel 294
- MSJ (Merge Scan Join) field
 - on the Statement Costs panel 53

- MTCL field
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 118
 - MU (Multiple Index Union) field
 - on the Statement Costs panel 53
 - Multiple Index Intersection field
 - on the Statement Costs panel 52
 - Multiple Index Union field
 - on the Statement Costs panel 53
 - MVS ID field 296
 - on the !DB/Tools DB2 Configuration Information panel 292
 - on the !DB/Tools Global Information—DB2 Subsystem Name Table panel 296
 - MX (Index Scans on Index) field
 - on the Statement Costs panel 53
 - MX (Mixed) field
 - on the DBRMs panel 62
 - on the Packages panel 177
 - MXOP field
 - on the EXPLAIN Compare panel 139
 - on the EXPLAIN panel 118
- N**
- N (Index Scan for IN) field
 - on the Statement Costs panel 53
 - NACTIVE field
 - on the Estimator panel 77
 - on the EXPLAIN panel 118
 - on the Whatif panel 256
 - NACTIVE (TSTP) field
 - on the EXPLAIN panel 119
 - NAME field
 - on the Tables panel 241
 - NAME heading field 218
 - on the EXPLAIN Compare panel 140
 - on the EXPLAIN History panel 147
 - on the Libraries panel 158
 - on the Statement Costs panel 53
 - on the Statements panel 218
 - NDX= field
 - on the EXPLAIN panel 119
 - NEARINDREF field
 - on the Estimator panel 77
 - on the EXPLAIN panel 119
 - on the Whatif panel 256
 - NEAROFFPOS field
 - on the Estimator panel 77
 - on the EXPLAIN panel 119
 - on the Whatif panel 256
 - Nested Loop Join field
 - on the Statement Costs panel 53
 - NLEAF field
 - on the Estimator panel 77
 - on the EXPLAIN panel 119
 - on the Whatif panel 256
 - NLEAF (IXP) field
 - on the EXPLAIN panel 119
 - NLEVELS field
 - on the Estimator panel 77, 78
 - on the Whatif panel 256
 - NLEVELS (IXP) field
 - on the EXPLAIN panel 119
 - NLJ (Nested Loop Join) field
 - on the Statement Costs panel 53
 - NMIS (Non-Matching Index Scan) field
 - on the Statement Costs panel 53
 - No. of MEMBERS HEADING field
 - on the Libraries panel 158
 - Non-Matching Index Scan field
 - on the Statement Costs panel 53
 - NOT SIGN CHARACTER field
 - on the EXPLAIN/SQL Defaults panel 311
 - NPAGES field
 - on the Estimator panel 78
 - on the EXPLAIN panel 119
 - on the Whatif panel 256
 - NPAGES (TSTP) field
 - on the EXPLAIN panel 119
 - NTABLES field
 - on the Estimator panel 78
 - on the EXPLAIN panel 119
 - on the Whatif panel 256
 - NULL field
 - on the Column Distribution Statistics panel 43
 - NULLS field
 - on the Table Columns panel 233
 - Number of Access Degrees field
 - on the Statement Costs panel 52
 - NUMBER OF COLLECTIONS field
 - on the Build Tuning Parameters panel 282
 - NUMBER OF CONNECTIONS PER PACKAGE field
 - on the Build Tuning Parameters panel 282

Index

- NUMBER OF CONNECTIONS PER PLAN field
 - on the Build Tuning Parameters panel 282
 - NUMBER OF DBRMS PER PLAN field
 - on the Build Tuning Parameters panel 282
 - NUMBER OF DBRMS TO PROCESS field
 - on the VSAM Tuning Parameters panel 383
 - NUMBER OF DBRMS TO PROCESS (XCPT) field
 - on the VSAM Tuning Parameters panel 384
 - NUMBER OF EXPLAINABLE STATEMENTS PER DBRM/PACKAGE field
 - on the Build Tuning Parameters panel 282
 - Number of Join Degrees field
 - on the Statement Costs panel 52
 - NUMBER OF PACKAGES field
 - on the Build Tuning Parameters panel 282
 - NUMBER OF PACKAGES PER PLAN field
 - on the Build Tuning Parameters panel 282
 - NUMBER OF PLANS field
 - on the Build Tuning Parameters panel 282
 - NUMBER OF STATEMENTS TO PROCESS field
 - on the VSAM Tuning Parameters panel 384
 - NUMBER OF TABLES field
 - on the Build Tuning Parameters panel 282
 - NUMBER OF TABLES REFERENCED BY AN EXPLAINABLE STATEMENT field
 - on the Build Tuning Parameters panel 282
 - NUMBER OF UNIQUE DBRMS field
- O**
- OBID field
 - on the Estimator panel 78
 - on the EXPLAIN panel 119
 - on the Whatif panel 257
 - object information 95
 - object list panels
 - matrix showing commands 387
 - matrix showing selects 409
 - object panels 17
 - OK field
 - on the Extract History panel 150
 - OMEGAMON II for DB2
 - Accounting Reports 187
 - Application Trace Facility 187
 - One-Fetch Index Scan field
 - on the Statement Costs panel 52
 - online documentation 14
 - Online Menu 160
 - OP (Operative) field
 - on the Packages panel 177
 - on the Plans panel 200
 - OPEN field
 - from DBRMs 200
 - from Packages 200
 - on the DBRMs panel 62
 - on the Packages panel 177
 - on the Plans panel 200
 - OPERATIVE field
 - from packages 119
 - from plans 120
 - on the EXPLAIN panel 119, 120
 - on the Packages panel 177
 - on the Plans panel 200
 - OPERATOR field
 - on the Selection Masking panel 370
 - OPTION field
 - on the Housekeeping panel 318
 - on the Recommendations Menu 347
 - Order By sorts
 - on the composite table 141
 - on the EXPLAIN Compare panel 141, 142
 - on the new table 142
 - on the Statement Costs panel 54
 - ORDER field
 - on the EXPLAIN Display Tuning Parameters panel 309
 - ORDERING field
 - on the Keys panel 154
 - OUT STATISTICS FORMAT field
 - on the Miscellaneous Defaults panel 324
 - Output Options 162
 - Output Options Defaults panel 326
 - OWNER field
 - on the EXPLAIN panel 120
 - on the Package BIND Overrides panel 332
 - on the Packages panel 177
 - on the Plan BIND Overrides panel 344
 - OWNER of PACKAGE(AUTHID) field
 - on the BIND/REBIND Package panel 27
 - OWNER of PLAN(AUTHID) field 37
 - on the BIND/REBIND Plan panel 37

P

- P M field
 - on the EXPLAIN Compare panel 140
 - on the EXPLAIN panel 120
- P R= field
 - on the EXPLAIN Compare panel 140
 - on the EXPLAIN panel 120
- P#TS field
 - on the PLANS panel 200
- Package BIND Overrides 328
- PACKAGE BINDSTAMP MASK 1 field
 - on the Selection Masking panel 370
- PACKAGE BINDSTAMP MASK 2 field
 - on the Selection Masking panel 370
- PACKAGE COLLECTION MASK 1 field
 - on the Selection Masking panel 370
- PACKAGE COLLECTION MASK 2 field
 - on the Selection Masking panel 370
- PACKAGE COLLECTION SELECTION field
 - on the Miscellaneous Defaults panel 324
- Package Connections 164
- PACKAGE CREATOR MASK 1 field
 - on the Selection Masking panel 370
- PACKAGE CREATOR MASK 2 field
 - on the Selection Masking panel 371
- PACKAGE field 37, 186
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 37
 - on the EXPLAIN panel 120
 - on the Packages panel 177
 - on the Plan Package List panel 186
 - on the Verification panel 244
- PACKAGE ID field
 - on the BIND/REBIND Package panel 27
- Package Information panel 171
- Package List panel 33
- PACKAGE MASK1 field
 - on the Selection Masking panel 371
- PACKAGE MASK2 field
 - on the Selection Masking panel 371
- PACKAGE NAME field
 - on the EXPLAIN Compare panel 138
 - on the Statements panel 217
- PACKAGE OWNER MASK 1 field
 - on the Selection Masking panel 371
- PACKAGE OWNER MASK 2 field
 - on the Selection Masking panel 371
- PACKAGE QUALIFIER MASK 1 field
 - on the Selection Masking panel 371
- PACKAGE QUALIFIER MASK 2 field
 - on the Selection Masking panel 371
- PACKAGE VERSION MASK 1 field
 - on the Selection Masking panel 371
- PACKAGE VERSION MASK 2 field
 - on the Selection Masking panel 371
- package, from existing DBRM 56
- PACKAGE/DBRM field
 - on the Statement Costs panel 52
- PACKAGE/DBRM NAME field
 - on the EXPLAIN panel 110
- packages
 - in plan 204
 - number in plan 195
 - number of ALTERs in 193
 - number of CLOSE statements in 194
 - number of COMMITs in 194
 - number of CONNECTs in 194
 - number of CREATEs in 195
 - number of DECLARE CURSORs in 195
 - number of DECLARE STATEMENTs in 195
 - number of DECLARE TABLEs in 196
 - number of DELETEs in 196
 - number of DESCRIBEs in 196
 - number of DROPs in 197
 - number of EXECUTEs in 198
 - number of EXPLAINs in 198
 - number of FETCHes in 198
 - number of GRANTs in 199
 - number of INSERTs in 199
 - number of LCK SHRs in 199
 - number of LCK XCLs in 200
 - number of OPENs in 200
 - number of PREPAREs in 201
 - number of RELEASEs in 201
 - number of REVOKEs in 201
 - number of ROLLBACKs in 202
 - number of RO(REOPTVAR)s in 201
 - number of SELECTs in 202
 - number of SETs in 202
 - number of STMTs in 204
 - number of UPDATEs in 204
 - number of WHENEVERs in 205
- Packages panel 166
- PACKLIST COLLECTION MASK 1
 - on the Selection Masking panel 371

- PACKLIST COLLECTION MASK 2
 - on the Selection Masking panel 371
- PACKLIST LOCATION MASK 1
 - on the Selection Masking panel 371
- PACKLIST LOCATION MASK 2
 - on the Selection Masking panel 371
- PACKLIST PACKAGE MASK 1
 - on the Selection Masking panel 371
- PACKLIST PACKAGE MASK 2
 - on the Selection Masking panel 371
- PAGESAVE field
 - on the Estimator panel 78
 - on the Whatif panel 257
- PAGESAVE (TSTP) field
 - on the EXPLAIN panel 120
- panel
 - terminology: vs. display 12
- Panel Filters panel 335
- Panel Formats panel 337
- Panel Sorts panel 339
- panels 288
 - Administration Menu 21
 - BIND Compare Options 277
 - BIND/REBIND Package 23
 - BIND/REBIND Plan 29
 - Build Tuning Parameters 281
 - Collections 39
 - Column Distribution Statistics 41, 42
 - Column Distribution Statistics panel 42
 - Compare History 45
 - Compare Options 284
 - Costs 49
 - customization and housekeeping 273
 - Data Formats 286
 - DBRM Information 59
 - DBRM Member Names 31
 - DBRMs 56
 - !DB/Tools DB2 Configuration
 - Information 290
 - !DB/Tools Global Configuration
 - Information 293
 - !DB/Tools Global Information—DB2
 - Subsystem Name Table 295
 - !DB/Tools Profile Dataset List 297
 - Estimator 67
 - Exception Options 299
 - Exceptions 93
 - EXPLAIN 95
 - EXPLAIN Compare 134
 - EXPLAIN Defaults 303
- panels (*continued*)
 - EXPLAIN Display Tuning Parameters 307
 - EXPLAIN History 144
 - EXPLAIN History Delete Confirmation 146
 - EXPLAIN/SQL Defaults 310
 - Extract History 149
 - Extract Processing Defaults 312
 - Extract Update 151
 - Housekeeping 315
 - housekeeping and customization 273
 - I 187, 188
 - Index keys 153
 - Keys 153
 - KTBPBODB 290
 - KTBPBHOGL 293
 - KTCPDBDS 295
 - KTCPPRF0 297
 - KTE3CDSE 41
 - KTE3CKSE 153
 - KTE3SSUP 70, 248
 - KTE3TCFR 226
 - KTE3TCSE 226
 - KTEPADMN 21
 - KTEPBIDB 31
 - KTEPBIKA 23
 - On the BIND/REBIND Package panel 25
 - KTEPBIKC 25
 - KTEPBILI 32
 - KTEPBIPC 32
 - KTEPBIPK 33
 - KTEPBIPL 29
 - KTEPCDI2 42
 - KTEPCDIS 41, 42
 - KTEPCKEY 153
 - KTEPCLTN 39
 - KTEPCMPR 134
 - KTEPCOST 49
 - KTEPDBIN 59
 - KTEPDBRM 56
 - KTEPESTM 67
 - KTEPEXPL 95
 - KTEPHIDL 146
 - KTEPHIST 144
 - KTEPHOBC 277
 - KTEPHOBK 328
 - KTEPHOBP 341
 - KTEPHOCO 284
 - KTEPHODF 335
 - KTEPHODS 377
 - KTEPHOEP 312

panels (*continued*)

KTEPHOEX 303
 KTEPHOLS 319
 KTEPHOMF 286
 KTEPHOMI 310
 KTEPHOMJ 322
 KTEPHOMK 369
 KTEPHOOD 326
 KTEPHOPF 337
 KTEPHOPS 339
 KTEPHOR0 348
 KTEPHOR1 350
 KTEPHOR2 352
 KTEPHOR3 354
 KTEPHOR4 356, 358, 360, 362
 KTEPHOR8 364
 KTEPHORM 347
 KTEPHOSE 373
 KTEPHOSQ 379
 KTEPHOUS 315
 KTEPHOVB 382
 KTEPHOVC 281
 KTEPHOVD 307
 KTEPHOXC 366
 KTEPHOXO 299
 KTEPJHIS 45
 KTEPKACK 166
 KTEPKAIN 171
 KTEPKCON 164
 KTEPLIBR 155
 KTEPLIDL 157
 KTEPMENU 209
 KTEPMEON 160
 KTEPOUTP 162
 KTEPPCON 183
 KTEPPKPL 185
 KTEPPPLAN 187
 KTEPPVER 243
 KTEPSSSG 70, 248
 KTEPSTMT 212
 KTEPSWCH 211
 KTEPTABL 240
 KTEPTCOL 226, 227, 229
 KTEPWHIF 245
 KTEPXAUB 151
 KTEPXCPT 93
 KTEPXHST 149
 Libraries 155
 Library Delete Confirmation 157
 Library Delete Confirmation panel 157

panels (*continued*)

Library Names 32
 Library Search Order 319
 Miscellaneous Defaults 322
 object 17
 Online Menu 160
 Output Options 162
 Output Options Defaults 326
 Package BIND Overrides 328
 Package Connections 164
 Package Information 171
 Package List 33
 Packages 166
 Panel Filters 335
 Panel Formats 337
 Panel Sorts 339
 Plan BIND Overrides 341
 Plan Connections 183
 Plan Package List 185
 Plans 187
 Plans Info 187
 Primary Menu 209
 REBIND Package 23
 REBIND Plan 29
 Recommendations Menu 347
 Recommendations Panel 0 348
 Recommendations Panel 1 350
 Recommendations Panel 2 352
 Recommendations Panel 3 354
 Recommendations Panel 4 356
 Recommendations Panel 5 358
 Recommendations Panel 6 360
 Recommendations Panel 7 362
 Recommendations Panel 8 364
 Recommendations Panel 9 366
 Selection Masking 369
 Sessions Menu 211
 Set Defaults 373
 SQL Defaults 377
 SQL Formats for KTEXPL 379
 Statements 212
 Statistics Gathering 248
 Statistics Gathering panel 70
 Statistics Update 248
 Statistics Update panel 70
 System Connection Names panel 25
 System Connection Types 32
 Table Columns 226
 Table Columns panel 227, 229
 Tables 240

- panels (*continued*)
 - Tuning Parameters 382
 - Verification 243
 - Whatif 245
- PARENS field
 - on the Selection Masking panel 371
- PARNT field
 - on the Estimator panel 78
 - on the EXPLAIN panel 120
 - on the Whatif panel 257
- parser exit to DB2
 - using host variables in 311
 - using synonyms in 311
- PART field
 - on the Column Distribution Statistics panel 43
 - on the Table Columns panel 233
- PARTITION field
 - on the Estimator panel 78
 - on the EXPLAIN panel 120
 - on the Whatif panel 257
- PARTITIONS field
 - on the Estimator panel 78
 - on the EXPLAIN panel 120
 - on the Whatif panel
- PCTFREE field
 - on the Estimator panel 78
 - on the EXPLAIN panel 120
 - on the Whatif panel 257
- PCTPAGES field
 - on the Estimator panel 78, 79
 - on the Whatif panel 257
- PCTPAGES (TSTP) field
 - on the EXPLAIN panel 121
- PCTROWCOMP field
 - on the Estimator panel 79
 - on the Whatif panel 257
- PCTROWCOMP (TBL) field
 - on the EXPLAIN panel 121
- PCTROWCOMP (TSTP) field
 - on the EXPLAIN panel 121
- PD#TS field
 - on the PLANS panel 200
- PERCACT field
 - on the Estimator panel 79
 - on the EXPLAIN panel 121
 - on the Whatif panel 257
- PERCDROP field
 - on the Estimator panel 79
 - on the EXPLAIN panel 121
- PERCDROP field (*continued*)
 - on the Whatif panel 258
- PERMANENT field
 - on the BIND Compare Options panel 280
 - on the Data Formats panel 287
 - on the Exception Options panel 300
 - on the EXPLAIN Defaults panel 305
 - on the EXPLAIN/SQL Defaults panel 311
 - on the Extract Processing Defaults panel 313
 - on the Library Search Order panel 321
 - on the Miscellaneous Defaults panel 324
 - on the Output Options Defaults panel 327
 - on the Panel Filters panel 336
 - on the Panel Sorts panel 340
 - on the Recommendations Panel 0 349
 - on the Recommendations Panel 1 351
 - on the Recommendations Panel 2 353
 - on the Recommendations Panel 3 355
 - on the Recommendations Panel 4 357
 - on the Recommendations Panel 5 359
 - on the Recommendations Panel 6 361
 - on the Recommendations Panel 7 363
 - on the Recommendations Panel 8 365
 - on the Recommendations Panel 9 367
 - on the Selection Masking panel 371
 - on the SQL Defaults panel 378
 - on the VSAM Tuning Parameters panel 384
- PERMANENT INDICATOR field
 - on the Panel Formats panel 338
 - on the Set Defaults panel 375
- PF (Prefetch) field
 - on the EXPLAIN Compare panel 140
 - on the EXPLAIN panel 121
- PG field
 - on the Extract History panel 150
- PGSIZE field
 - on the Estimator panel 79
 - on the EXPLAIN panel 121
 - on the Whatif panel 258
- PK#TS field
 - on the PLANS panel 200
- PKG MASK#1 field
 - on the Extract History panel 150
- PKG MASK#2 field
 - on the Extract History panel 150
- PKG OPER field
 - on the Extract History panel 150
- PKG POST field
 - on the Extract Processing Defaults panel 313

- PKG PRE field
 - on the Extract Processing Defaults panel 313
- PKGS field
 - on the Libraries panel 158
- PKSIZE field
 - on the EXPLAIN panel 121
 - on the Packages panel 177
- Plan BIND Overrides 341
- PLAN BINDSTAMP MASK 1 field
 - on the Selection Masking panel 372
- PLAN BINDSTAMP MASK 2 field
 - on the Selection Masking panel 372
- Plan Connections panel 183
- PLAN CREATOR field
 - on the DBRMs panel 62
- PLAN Creator MASK 1 field
 - on the Selection Masking panel 372
- PLAN CREATOR MASK 2 field
 - on the Selection Masking panel 372
- PLAN field 37
 - on the BIND/REBIND Plan panel 37
 - on the EXPLAIN panel 121
 - on the PLANS panel 200
 - on the Verification panel 244
- PLAN FREED? field
 - on the EXPLAIN panel 121
 - on the Plans panel 200
- PLAN HEADING field
 - on the DBRMs panel 62
- PLAN INFORMATION field 218
 - on the Statements panel 218
- PLAN MASK#1 field
 - on the Extract History panel 150
- PLAN MASK#2 field
 - on the Extract History panel 150
- PLAN MASK1 field
 - on the Selection Masking panel 372
- PLAN MASK2 field
 - on the Selection Masking panel 372
- PLAN NAME field
 - on the EXPLAIN Compare panel 140
 - on the Statements panel 217
- PLAN OPER field
 - on the Extract History panel 150
- PLAN OWNER MASK 1 field
 - on the Selection Masking panel 372
- PLAN OWNER MASK 2 field
 - on the Selection Masking panel 372
- Plan Package List panel 185
- PLAN POST field
 - on the Extract Processing Defaults panel 313
- PLAN PRE field
 - on the Extract Processing Defaults panel 313
- PLAN QUALIFIER MASK 1 field
 - on the Selection Masking panel 372
- PLAN QUALIFIER MASK 2 field
 - on the Selection Masking panel 372
- plan section bytes 193
- PLAN SIZE field
 - on the EXPLAIN panel 121
- PLAN TABLE ASSOCIATE NEW ONES? field
 - on the Extract Processing Defaults panel 314
- plan table data (2-line format) 95
- PLAN TABLE OWNER field
 - on the Set Defaults panel 375
- PLAN TABLE VARIANCE field
 - on the Extract Processing Defaults panel 314
- PLAN_TABLE
 - EXPLAIN DATE/TIME field 147
 - PLAN_TABLE data 95
 - PLAN_TABLE DATASET DATA BUFFERS (FOR OUTPUT) field
 - on the VSAM Tuning Parameters panel 384
 - PLAN_TABLE EXTRACT DATASET DATA BUFFERS field
 - on the VSAM Tuning Parameters panel 384
 - PLAN_TABLE EXTRACT DATASET INDEX BUFFERS field
 - on the VSAM Tuning Parameters panel 384
 - PLAN_TABLE EXTRACT DATASET INDEX BUFFERS (FOR OUTPUT) field
 - on the VSAM Tuning Parameters panel 384
 - PLAN_TABLE.ACCESS_DEGREE
 - ACC DEG field 105, 138
 - ADG (Number of Access Degrees) field 52
 - PLAN_TABLE.ACCESS_PGROU_ID
 - ACC PID field 105, 138
 - PLAN_TABLE.ACCESSCREATOR
 - NDX= field 119
 - PLAN_TABLE.ACCESSNAME
 - INDEXNAME field 115, 139
 - NDX= field 119
 - PLAN_TABLE.ACCESTYPE
 - ACCESS field 105
 - ACCS (Access) field 138
 - I1 (One-Fetch Index Scan) field 52
 - MI (Multiple Index Intersection) field 52
 - MU (Multiple Index Union) field 53

- PLAN_TABLE.ACCESTYPE (*continued*)
 MX (Index Scans on Index) field 53
 N (Index Scan for IN) field 53
 TS (Table Space Scan) field 54
 PLAN_TABLE.COLLID
 COLLECTION field 138
 PLAN_TABLE.COLUMN_FN_EVAL
 FN (Function) field 114, 138
 WO field 130
 PLAN_TABLE.CORRELATION_NAME
 CORR= field 109, 138
 PLAN_TABLE.CREATOR
 TBL= field 128
 PLAN_TABLE.INDEX ONLY
 IX (Index Only) field 139
 PLAN_TABLE.INDEXONLY
 IX field 116
 PLAN_TABLE.JOIN_DEGREE
 JDG (Number of Join Degrees) field 52
 JOI DEG field 116, 139
 PLAN_TABLE.JOIN_PGROU_ID
 JOI PID field 116, 139
 PLAN_TABLE.MATCHCOLS
 MTCL field 118, 139
 PLAN_TABLE.MERGE_JOIN_COLS
 MJCL field 118, 139
 PLAN_TABLE.METHOD
 HBJ (Hybrid Join) field 52
 ME (Method) field 118, 139
 MSJ (Merge Scan Join) field 53
 NLJ (Nested Loop Join) field 53
 PLAN_TABLE.MIXOPSEQ
 MXOP field 118, 139
 PLAN_TABLE.PARALLELISM_MODE
 P M field 120, 140
 PLAN_TABLE.PLANNO
 PLN NO. field 122
 PLAN_TABLE.PREFETCH
 FROM TABLE identifier 114
 LPF (List Prefetch) field 52
 PF (Prefetch) field 121, 140
 SPF (Sequential Prefetch) field 54
 PLAN_TABLE.PROGNAME
 DBRM field 138
 NAME heading field 140
 PACKAGE NAME field 138
 PLAN_TABLE.QBLOCK_TYPE
 QUERY TEXT field 123
 QUERY TYPE field 141
 PLAN_TABLE.QBLOCKNO
 QBNO field 122
 QBNO (Query Block Number) field 140
 PLAN_TABLE.QUERYNO
 QUERYNO field 140
 PLAN_TABLE.SORTC_GROUPLY
 SG (Sorts - Group By) field 53
 SRC G (Sorts - Group By) field 141
 PLAN_TABLE.SORTC_JOIN
 SJ (Sorts - Join) field 54
 SRC J (Sort - Join) field 141
 PLAN_TABLE.SORTC_ORDERBY
 SO (Sorts - Order By) field 54
 SRC O (Sort - Order By) field 141
 PLAN_TABLE.SORTC_UNIQ
 SRC U (Sort - Unique) field 141
 SU (Sorts - Unique) field 54
 PLAN_TABLE.SORTN_GROUPLY
 SG (Sorts - Group By) field 53
 SRN G (Sorts-Group By) field 142
 PLAN_TABLE.SORTN_JOIN
 SJ (Sorts - Join) field 54
 SRN J (Sort - Join) field 142
 PLAN_TABLE.SORTN_ORDERBY
 SO (Sorts - Order By) field 54
 SRN O (Sort - Order By) field 142
 PLAN_TABLE.SORTN_UNIQ
 SRN U (Sort - Unique) field 142
 SU (Sorts - Unique) field 54
 PLAN_TABLE.TIMESTAMP
 EXPLAIN DATE/TIME field 61, 138, 175
 EXPLAIN TIMESTAMP field 52, 113
 PLAN_TABLE.TNAME
 TBL= field 128
 PLAN_TABLE.TSLOCKMODE
 LCK field 117, 139
 LCK (TSLOCKMODE) field 52
 PLAN_TABLE.VERSION
 VERSION field 54, 142
 PLAN_TABLE.WHEN_OPTIMIZE
 WO field 142
 PLANS field
 on the !DB/EXPLAIN Configuration
 Information panel 289
 Plans Info panel 187
 Plans panel 187
 PLANTABL OWNER field
 on the Extract History panel 150

- PLENTRIES field
 - on the EXPLAIN panel 122
 - on the Plans panel 200
 - PLN NO. field
 - on the EXPLAIN panel 122
 - PLSIZE field
 - on the Plans panel 201
 - portable document format, Adobe 9
 - PQTY field
 - on the Estimator panel 79
 - on the EXPLAIN panel 122
 - on the Whatif panel 258
 - PRECOMPILE DATE field
 - on the Statements panel 219
 - PRECOMPILE DATE/TIME field
 - on the DBRMs panel 62
 - on the EXPLAIN History panel 147
 - on the Verification panel 244
 - PRECOMPILE DATE/TME field
 - on the Packages panel 177
 - PRECOMPILE TIME field
 - on the EXPLAIN panel 122
 - PRECOMPILE TIMESTAMP field
 - on the Statement Costs panel 53
 - Prefetch field
 - on the EXPLAIN Compare panel 140
 - on the EXPLAIN panel 121
 - PREPARE field
 - from DBRMs 201
 - from Packages 201
 - on the DBRMs panel 62
 - on the Packages panel 177
 - on the Plans panel 201
 - PREPARE STMTS TO OBTAIN COST field
 - on the EXPLAIN/SQL Defaults panel 311
 - pre-V130 (1.3) precompiler
 - problems with DBRMs 56, 290
 - PRIMARY field
 - on the !DB/EXPLAIN Configuration Information panel 289
 - Primary Menu 209
 - PROCESS BIND TYPE OPTIONS? field
 - on the Exception Options panel 300
 - PROCESS OBJECT TYPE OPTIONS? field
 - on the Exception Options panel 301
 - PROCESS SQL ERROR TYPE OPTIONS? field
 - on the Exception Options panel 301
 - PROCESS SQL TYPE OPTIONS? field
 - on the Exception Options panel 301
 - PROCESS XCPT TYPE OPTIONS? field
 - on the Exception Options panel 302
 - PROFILE dataset LIST field
 - on the Housekeeping panel 318
 - Profile Dataset Type field
 - on the !DB/Tools Profile Dataset List panel 298
 - PSID field
 - on the Estimator panel 79
 - on the EXPLAIN panel 122
 - on the Whatif panel 258
- Q**
- QBNO field
 - on the EXPLAIN panel 122
 - QBNO (Query Block Number) field
 - on the EXPLAIN Compare panel 140
 - QU (Quote) field
 - on the DBRMs panel 62
 - on the Packages panel 177
 - QUALIFIER field 37
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 37
 - on the EXPLAIN panel 122
 - on the Library Search Order panel 321
 - on the Library Search Order panel 321
 - on the Package BIND Overrides panel 332
 - on the Packages panel 177
 - on the Plan BIND Overrides panel 344
 - on the Plans panel 201
 - QUALIFY SYNONYMS WITH PLAN/PACKAGE QUALIFIER field
 - on the Set Defaults panel 375
 - Query Block Number field
 - on the EXPLAIN Compare panel 140
 - QUERY TEXT field
 - on the EXPLAIN panel 123
 - QUERY TYPE field
 - on the EXPLAIN panel 141
 - QUERYNO field
 - on the EXPLAIN Compare panel 140
 - Quote field
 - on the DBRMs panel 62
 - on the EXPLAIN panel 123
 - on the Packages panel 177

R

- RBA1 field
 - on the Estimator panel 79
 - on the Whatif panel 258
- RBA1 (TBL) field
 - on the EXPLAIN panel 123
- RBA2 field
 - on the Estimator panel 79
 - on the Whatif panel 258
- RBA2 (TBL) field
 - on the EXPLAIN panel 123
- RE (Release) field
 - on the Packages panel 177
 - on the Plans panel 201
- READ EXPLAIN IF OWNER CHANGED field
 - on the EXPLAIN Defaults panel 305
- REAL CATALOG PREFIX field
 - on the !DB/Tools DB2 Configuration Information panel 292
- REBIND Package panel 23
- REBIND Plan panel 29
- RECLLEN field
 - on the Estimator panel 79
 - on the EXPLAIN panel 123
 - on the Whatif panel 258
- RECOMMENDATION TEXT field 219
 - on the Statements panel 219
- recommendations 95
- Recommendations Menu 347
- Recommendations Panel 0 348
- Recommendations Panel 1 350
- Recommendations Panel 2 352
- Recommendations Panel 3 354
- Recommendations Panel 4 356
- Recommendations Panel 5 358
- Recommendations Panel 6 360
- Recommendations Panel 7 362
- Recommendations Panel 8 364
- Recommendations Panel 9 366
- RELEASE (All) field
 - on the Plans panel 201
- RELEASE field 37
 - from DBRMs 201
 - from Packages 201
 - on the BIND/REBIND Package panel 27
 - on the BIND/REBIND Plan panel 37
 - on the DBRMs panel 62
 - on the EXPLAIN panel 123
 - on the Package BIND Overrides panel 332
- RELEASE field (*continued*)
 - on the Packages panel 177, 178
 - on the Plan BIND Overrides panel 344
 - on the Plans panel 201
- RELEASE VERSION field
 - on the BIND/REBIND Package panel 28
- REMOTE ENABLE field
 - on the Package Bind Overrides panel 332
 - on the Plan Bind Overrides panel 344
- REMOTE ENABLE? field 37
 - on the BIND/REBIND Plan panel 37
- REMOTE field
 - on the EXPLAIN panel 123
 - on the Packages panel 178
- REOPT(VAR) field
 - on the Packages panel 178
- REOPT(VAR)(Packages) field
 - on the EXPLAIN panel 124
- REOPT(VAR)(Plans) field
 - on the EXPLAIN panel 124
- REOPT(VARS) field 37
 - on the BIND/REBIND Package panel 28
 - on the BIND/REBIND Plan panel 37
 - on the Package BIND Overrides panel 332
 - on the Plan BIND Overrides panel 344
- REQUIRE ALL DBRMS FOR A PLAN? field
 - on the EXPLAIN Defaults panel 305
- REQUIRE ALL PACKAGES FOR A PLAN? field
 - on the EXPLAIN Defaults panel 305
- RESEARCH VIEWS AND ALIASES field
 - on the EXPLAIN Defaults panel 305
- restriction
 - using CEXPL in batch 48
- RETAIN EXECUTION AUTHORITY field 37
 - on the BIND/REBIND Plan panel 37
 - on the Plan BIND Overrides panel 345
- RETAIN EXPLAIN DISPLAY? field
 - on the EXPLAIN Defaults panel 306
- RETAIN STATISTICS FOR REUSE? field
 - on the EXPLAIN Defaults panel 306
- revision bars 11
- REVOKE field
 - from DBRMs 201
 - from Packages 201
 - on the DBRMs panel 62
 - on the Packages panel 178
 - on the Plans panel 201

- RHS field
 - on the SQL Formats for KTEXPL panel 381
- RM (Remote) field
 - on the Packages panel 178
- ROLLBACK field
 - from DBRMs 202
 - from Packages 202
 - on the DBRMs panel 62
 - on the Packages panel 178
 - on the Plans panel 201, 202
- RO(REOPTVAR) field
 - from Packages 201
 - on the Plans panel 201

- S**

- SAVE EXPLAIN IF OWNER CHANGED field
 - on the EXPLAIN Defaults panel 306
- SAVE EXPLAIN RESULTS? field
 - on the EXPLAIN Defaults panel 306
- SAVE VALUES PERMANENTLY? field 219
 - on the Host Variables panel 219
- SAVE WHATIF RESULTS? field
 - on the EXPLAIN Defaults panel 306
- SCALE field 219
 - on the Host Variables panel 219
 - on the Table Columns panel 233
- SE (SQLERROR) field
 - on the Packages panel 178
- SEARCH ORDER field
 - on the Library Search Order panel 321
- SEGSIZE field
 - on the Estimator panel 80
 - on the EXPLAIN panel 124
 - on the Whatif panel 258
- Selection Masking panel 369
- selects
 - matrix showing availability 409
- SELECTS field
 - from DBRMs 202
 - from Packages 202
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 202
 - on the Tables panel 241
- SEQNO field 186
 - on the Plan Package List panel 186
- Sequential Prefetch field
 - on the Statement Costs panel 54
- SERVER field
 - on the Estimator panel 79
 - on the EXPLAIN panel 124
 - on the Plans panel 202
 - on the Whatif panel 258
- Sessions Menu panel 211
- SET CONNECT field
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 202
- SET CURRENT DEGREE field
 - on the Set Defaults panel 375
- Set Defaults
 - using global commands 373
- Set Defaults panel 373
- SET DEGREE field
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 202, 203
- SET EXCEPTION RC FOR EXPLAIN field
 - on the Miscellaneous Defaults panel 324
- SET EXCEPTION RC FOR RECOMMEND field
 - on the Miscellaneous Defaults panel 324
- SET EXCEPTION RC FOR XCPT field
 - on the Miscellaneous Defaults panel 324
- SET field
 - from DBRMs 202
 - from Packages 202
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 202
- SET HOST field
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 203
- SET O field
 - on the Set Defaults panel 376
- SET PKGSET field
 - on the DBRMs panel 63
 - on the Packages panel 178
 - on the Plans panel 203
- SET RULES field
 - on the DBRMs panel 63
 - on the Packages panel 179
 - on the Plans panel 203
- SET SQLID field
 - on the DBRMs panel 63
 - on the Packages panel 179

Index

- SET SQLID field (*continued*)
 - on the Plans panel 203
- SG (Sorts - Group By) field
 - on the Statement Costs panel 53
- shadow catalog
 - vs. real catalog 245, 325
 - vs. real catalog prefix 292
- SHOW ALL PLAN_TABLE ROWS? field
 - on the EXPLAIN Defaults panel 306
- SJ (Sorts - Join) field
 - on the Statement Costs panel 54
- SKELS dataset field
 - on the !DB/Tools Global Configuration Information panel 294
- SO (Sorts - Order By) field
 - on the Statement Costs panel 54
- Sort - Join field
 - on the composite table 141
 - on the EXPLAIN Compare panel 141, 142
 - on the new table 142
- Sort - Order By field
 - on the composite table 141
 - on the EXPLAIN Compare panel 141, 142
 - on the new table 142
- Sort - Unique field
 - on the composite table 141
 - on the EXPLAIN Compare panel 141, 142
 - on the new table 142
- SORT COMMAND field
 - on the Panel Sorts panel 340
- SORT TYPE field
 - on the Panel Sorts panel 340
- Sorts - Group By field
 - on the composite table 141
 - on the EXPLAIN Compare panel 141, 142
 - on the new table 142
 - on the Statement Costs panel 53
- Sorts - Join field
 - on the Statement Costs panel 54
- Sorts - Order By field
 - on the Statement Costs panel 54
- Sorts - Total field
 - on the Statement Costs panel 54
- Sorts - Unique field
 - on the Statement Costs panel 54
- source
 - SYSIBM.SYSTABLES
 - STATUS field 127
 - SOURCES
 - PLAN_TABLE
 - EXPLAIN DATE/TIME field 147
 - PLAN_TABLE.ACCESS_DEGREE
 - ACC DEG field 105, 138
 - ADG (Number of Access Degrees) field 52
 - PLAN_TABLE.ACCESS_PGGROUP_ID
 - ACC PID field 105, 138
 - PLAN_TABLE.ACCESSCREATOR
 - NXL= field 119
 - PLAN_TABLE.ACCESSNAME
 - INDEXNAME field 115, 139
 - NDX= field 119
 - PLAN_TABLE.ACCESTYPE
 - ACCESS field 105
 - ACCS (Access) field 138
 - I1 (One-Fetch Index Scan) field 52
 - MI (Multiple Index Intersection) field 52
 - MU (Multiple Index Union) field 53
 - MX (Index Scans on Index) field 53
 - N (Index Scan for IN) field 53
 - TS (Table Space Scan) field 54
 - PLAN_TABLE.COLLID
 - COLLECTION field 138
 - PLAN_TABLE.COLUMN_FN_EVAL
 - FN (Function) field 114, 138
 - WO field 130
 - PLAN_TABLE.CORRELATION_NAME
 - CORR= field 109, 138
 - PLAN_TABLE.CREATOR
 - TBL= field 128
 - PLAN_TABLE.INDEX ONLY
 - IX (Index Only) field 139
 - PLAN_TABLE.INDEXONLY
 - IX field 116
 - PLAN_TABLE.JOIN_DEGREE
 - JDG (Number of Join Degrees) field 52
 - JOI DEG field 116, 139
 - PLAN_TABLE.JOIN_PGGROUP_ID
 - JOI PID field 116, 139
 - PLAN_TABLE.MATCHCOLS
 - MTCL field 118, 139
 - PLAN_TABLE.MERGE_JOIN_COLS
 - MJCL field 118, 139
 - PLAN_TABLE.METHOD
 - HBJ (Hybrid Join) field 52
 - ME (Method) field 118, 139
 - MSJ (Merge Scan Join) field 53
 - NLJ (Nested Loop Join) field 53

sources (*continued*)

PLAN_TABLE.MIXOPSEQ
 MXOP field 118, 139
 PLAN_TABLE.PARALLELISM MODE
 P M field 120, 140
 PLAN_TABLE.PLANNO
 PLN NO. field 122
 PLAN_TABLE.PREFETCH
 LPF (List Prefetch) field 52
 PF (Prefetch) field 121, 140
 SPF (Sequential Prefetch) field 54
 PLAN_TABLE.PROGNAME
 DBRM field 138
 NAME heading field 140
 PACKAGE NAME field 138
 PLAN_TABLE.QBLOCK_TYPE
 QUERY TEXT field 123
 QUERY TYPE field 141
 PLAN_TABLE.QBLOCKNO
 QBNO field 122
 QBNO (Query Block Number) field 140
 PLAN_TABLE.QUERYNO
 QUERYNO field 140
 PLAN_TABLE.SORTC_GROUPBY
 SG (Sorts - Group By) field 53
 SRC G (Sorts - Group By) field 141
 PLAN_TABLE.SORTC_JOIN
 SJ (Sorts - Join) field 54
 SRC J (Sort - Join) field 141
 PLAN_TABLE.SORTC_ORDERBY
 SO (Sorts - Order By) field 54
 SRC O (Sort - Order By) field 141
 PLAN_TABLE.SORTC_UNIQ
 SRC U (Sort - Unique) field 141
 SU (Sorts - Unique) field 54
 PLAN_TABLE.SORTN_GROUPBY
 SG (Sorts - Group By) field 53
 SRN G (Sorts-Group By) field 142
 PLAN_TABLE.SORTN_JOIN
 SJ (Sorts - Join) field 54
 SRN J (Sort - Join) field 142
 PLAN_TABLE.SORTN_ORDERBY
 SO (Sorts - Order By) field 54
 SRN O (Sort - Order By) field 142
 PLAN_TABLE.SORTN_UNIQ
 SRN U (Sort - Unique) field 142
 SU (Sorts - Unique) field 54
 PLAN_TABLE.TABNO
 FROM TABLE identifier 114
 PLAN_TABLE.TIMESTAMP
 EXPLAIN DATE/TIME field 61, 138, 175

sources (*continued*)

PLAN_TABLE.TIMESTAMP (*continued*)
 EXPLAIN TIMESTAMP field 52, 113
 PLAN_TABLE.TNAME
 TBL= field 128
 PLAN_TABLE.TSLOCKMODE
 LCK field 117, 139
 LCK (TSLOCKMODE) field 52
 PLAN_TABLE.VERSION
 VERSION field 54, 142
 PLAN_TABLE.WHEN_OPTIMIZE
 WO field 142
 SYSIBM.PACKSTMT
 SQL TEXT field 124
 SYSIBM.PLAN_TABLE
 J T= field 116, 139
 P R= field 120, 140
 SYSIBM.STSSTNT
 CALL field 60
 SYSIBM.SYSCOLDIST
 FREQ% field 43
 STATS TIMESTAMP field 43
 VALUE field 43
 SYSIBM.SYSCOLDISTSTATS
 PART field 43
 STATS TIMESTAMP field 43
 SYSIBM.SYSCOLSTATS
 COLCARD field 230
 HIGH2KEY NULL field 231
 HIGH2KEY VALUE field 231
 HIGHKEY NULL field 230
 HIGHKEY VALUE field 230
 LOW2KEY NULL field 232
 LOW2KEY VALUE field 232
 LOWKEY NULL field 232
 LOWKEY VALUE field 232
 PART field 233
 STATS TIMESTAMP field 233
 SYSIBM.SYSCOLUMNS
 COLCARD field 230
 COLNO field 230
 COLTYPE field 230
 DEFAULT field 230
 FLDPROC field 230
 HIGH2KEY NULL field 231
 HIGH2KEY VALUE field 231
 KEYSEQ field 231
 LENGTH field 231
 LOW2KEY NULL field 232
 LOW2KEY VALUE field 232
 NULLS field 233

sources (*continued*)

SYSIBM.SYSCOLUMNS (*continued*)
 SCALE field 233
 STATS TIMESTAMP field 233
 SYSIBM.SYSCOLVALUE
 NULL field 43
 SYSIBM.SYSDBRM 217, 219, 221, 244
 ALL field 158
 CH (Charset) field 60
 CO (Comma) field 60
 COUNT (All) field 195
 COUNT (DBRM) field 195
 CREATOR field 195
 DBRM field 60, 244
 DBRM NAME field 217
 DBRM/PACKAGE field 52
 DBRMS field 158
 DE (Dec31) field 61
 HL (Hostlang) field 61
 LIBRARY field 62
 LIBRARY NAME field 244
 MX (Mixed) field 62
 PLAN HEADING field 62
 PRECOMPILE DATE field 219
 PRECOMPILE DATE/TIME field 62, 147,
 244
 PRECOMPILE TIMESTAMP field 53
 QU (Quote) field 62
 VERSION field 63, 130, 221, 244
 SYSIBM.SYSINDEXES
 BPOOL field 71, 106, 250
 CLOSERULE field 72, 108, 251
 CLUSTERED field 73, 108, 252
 CLUSTERING field 73, 108, 252
 CLUSTRATIO field 73, 109, 252
 COLCOUNT field 73, 109, 252
 CREATEBY field 74, 110, 252
 DSETPASS field 74, 112, 253
 ERASERULE field 74, 113, 253
 FIRSTKEY field 75, 114, 254
 FULLKEY field 75, 114, 254
 INDEXSPACE field 115, 255
 INDEXTYPE field 76, 115, 255
 ISOBID field 76, 115, 255
 IX field 76, 116, 255
 NLEAF field 77, 119, 256
 NLEVELS field 77, 256
 OBID field 78, 119, 257
 PGSIZE field 79, 121, 258
 SPACE field 80, 124, 258
 STATSTS field 80, 259

sources (*continued*)

SYSIBM.SYSINDEXES (*continued*)
 UNIQUE field 82, 129, 261
 SYSIBM.SYSINDEXES.STATSTIME
 STATSTS (IX) field 127
 SYSIBM.SYSINDEXESTATS
 CLUSTRATIO field 252
 SYSIBM.SYSINDEXEPART
 CARD field 71, 106, 250
 FAROFFPOS field 75, 113, 254
 FREEPAGE field 75, 114, 254
 IXP field 76, 116, 255
 LEAFDIST field 77, 117, 255
 NEAROFFPOS field 77, 119, 256
 PARTITION field 78, 120, 257
 PCTFREE field 78, 120, 257
 PQTY field 79, 122, 258
 SPACE field 80, 258
 SQTY field 80, 125, 259
 STATSTS field 80, 259
 STORNAME field 81, 128, 260
 STORTYPE field 81, 128, 260
 VCATNAME field 82, 130, 261
 SYSIBM.SYSINDEXEPART.GBPCACHE
 GBPCACHE (IXP) field 75, 114, 254
 SYSIBM.SYSINDEXEPART.SPACE
 SPACE (IXP) field 124
 SYSIBM.SYSINDEXEPART.STATSTIME
 STATSTS (IXP) field 127
 SYSIBM.SYSINDEXESPACE
 INDEXSPACE field 76
 SYSIBM.SYSINDEXESTATS
 CLUSTRATIO field 73
 CLUSTRATIO (IXP) field 109
 FIRSTKEY field 75, 254
 FULLKEY field 75, 254
 KEYCNT field 76, 255
 NLEAF field 77, 256
 NLEVELS field 78, 256
 STATSTSP field 80, 259
 SYSIBM.SYSINDEXESTATS.FIRSTKEYCARD
 FIRSTKEY (IXP) field 114
 SYSIBM.SYSINDEXESTATS.FULLKEYCARD
 FULLKEY (IXP) field 114
 SYSIBM.SYSINDEXESTATS.KEYCOUNT
 KEYCNT (IPX) field 117
 SYSIBM.SYSINDEXESTATS.NLEAF
 NLEAF (IXP) field 119
 SYSIBM.SYSINDEXESTATS.NLEVELS
 NLEVELS (IPX) field 119

sources (*continued*)

SYSIBM.SYSINDEXSTATS.STATSTIME
 STATSTSP (IXP) field 127
 SYSIBM.SYSKEYCOLUMNS
 KEYCOLUMNS field 117
 SYSIBM.SYSKEYS.COLNAME
 COLUMN NAME field 154
 SYSIBM.SYSKEYS.COLNO
 COLUMN NO field 154
 SYSIBM.SYSKEYS.COLSEQ
 COLUMN SEQ field 154
 SYSIBM.SYSKEYS.IXCREATOR
 IXCREATOR field 154
 SYSIBM.SYSKEYS.IXNAME
 IXNAME field 154
 SYSIBM.SYSKEYS.ORDERING
 ORDERING field 154
 SYSIBM.SYSPACKAGE 147, 177, 217, 219,
 244
 ALL field 158
 AVSIZE field 106, 172
 BIND DATE/TIME field 172
 BOUND field 106, 172
 CALL 172
 CH (Charset) field 172
 CHARSET field 107
 CO (Comma) field 172
 COLLECTION field 172
 COLLECTION ID field 109
 COLLID field 244
 COMMA field 109
 CONTOKEN field 109, 173
 COUNT (All) field 195
 COUNT (Packages) field 195
 CREATE field 173
 CREATOR field 173
 CREATOR (Packages) field 110
 DBRM field 244
 DBRM/PACKAGE field 52
 DE (Dec31) field 173
 DEC31 field 111
 DP (DeferPrep) field 174
 DR 174, 197
 DYNAMICRULES 175
 EX (EXPLAIN) field 175
 EXPLAIN (Packages) field 113
 GROUP MEMBER 175
 GROUP MEMBER= field 115
 HL (Hostlang) field 176
 HOSTLANG field 115
 IS (Isolation) field 176

sources (*continued*)

SYSIBM.SYSPACKAGE (*continued*)
 ISOLATION (Packages) field 116
 LIBRARY field 117, 176
 LIBRARY NAME field 244
 LOCATION field 244
 LOCATION (Packages) field 117
 MIXED field 118
 MX (Mixed) field 177
 on the EXPLAIN panel 109
 OP (Operative) field 177
 OPERATIVE (Packages) field 119
 OWNER field 120, 177
 PACKAGE field 120, 177, 244
 PACKAGE NAME field 217
 PKGS field 158
 PKSIZE field 121, 177
 PRECOMPILE DATE field 219
 PRECOMPILE DATE/TIME field 147,
 244
 PRECOMPILE DATE/TME field 177
 PRECOMPILE TIME field 122
 PRECOMPILE TIMESTAMP field 53
 QU (Quote) field 177
 QUALIFIER field 177
 QUALIFIER (Packages) field 122
 QUOTE field 123
 RE (Release) field 177
 RELEASE (Packages) field 123
 REMOTE field 123
 RM (Remote) field 178
 SE (SQLERROR) field 178
 SQLERR field 125
 SYSETRIES (Packages) field 128
 SYSETRY field 179
 VA (Validate) field 179
 VALID (Packages) field 129
 VALIDATE (Packages) field 130
 VD (Valid) field 179
 VERSION field 130, 179, 244
 SYSIBM.SYSPACKAGE.CONTOKEN
 CONTOKEN field 60
 SYSIBM.SYSPACKAGE.DEGREE
 DEGREE field 111, 173
 DG field 174
 SYSIBM.SYSPACKLIST
 COLLECTION field 40
 COLLECTION ID field 186
 LOCATION field 40, 186
 PACKAGE field 186
 SEQNO field 186

sources (*continued*)

SYSIBM.SYSPACKLIST (*continued*)
 TIMESTAMP field 186
 SYSIBM.SYSPACKSTMT 196, 220, 221
 ALTER (All) field 193
 ALTER field 172
 ALTER (Packages) field 193
 CLOSE field 172, 194
 CLOSE (Packages) field 194
 COMMIT (All) field 194
 COMMIT field 172
 COMMIT (Packages) field 194
 CONNECT (All) field 194
 CONNECT field 172
 CONNECT (Packages) field 194
 CREATE (All) field 195
 CREATE field 173
 CREATE (Packages) field 195
 DBRM/PACKAGE NAME field 110
 DCL CSR 195
 DECLARE CURSOR (All) field 195
 DECLARE CURSOR field 173
 DECLARE CURSOR (Packages) field 195
 DECLARE STATEMENT (All) field 195
 DECLARE STATEMENT field 173
 DECLARE STATEMENT (Packages)
 field 195
 DECLARE TABLE (All) field 196
 DECLARE TABLE field 173
 DECLARE TABLE (Packages) field 196
 DELETES (All) field 196
 DELETES field 174
 DELETES (Packages) field 196
 DESCRIBE (All) field 196
 DESCRIBE field 174
 DESCRIBE (Packages) field 196
 DROP (All) field 197
 DROP field 174
 DROP (Packages) field 197
 EXECUTE (All) field 197
 EXECUTE field 175
 EXECUTE (Packages) field 198
 EXPLAIN (All) field 198
 EXPLAIN field 175
 EXPLAIN (Packages) field 198
 FETCH (All) field 198
 FETCH field 175
 FETCH (Packages) field 198
 GRANT (All) field 199
 GRANT field 175
 GRANT (Packages) field 199

sources (*continued*)

SYSIBM.SYSPACKSTMT (*continued*)
 INSERTS (All) field 199
 INSERTS field 176
 INSERTS (Packages) field 199
 IS field 218
 K#TS field 176
 LCK SHR (All) field 199
 LCK SHR field 176
 LCK SHR (Packages) field 199
 LCK XCL (All) field 199
 LCK XCL field 176
 LCK XCL (Packages) field 200
 OPEN (All) field 200
 OPEN field 177
 OPEN (Packages) field 200
 PLAN NAME field 140
 PREPARE (All) field 201
 PREPARE field 177
 PREPARE (Packages) field 201
 REVOKE (All) field 201
 REVOKE field 178
 REVOKE (Packages) field 201
 ROLLBACK (All) field 201
 ROLLBACK field 178
 ROLLBACK (Packages) field 202
 SELECTS (All) field 202
 SELECTS field 178
 SELECTS (Packages) field 202
 SET (All) field 202
 SET CONNECT (All) field 202
 SET CONNECT (DBRMs) field 202
 SET CONNECT field 178
 SET CONNECT (Packages) field 202
 SET DEGREE (All) field 202
 SET DEGREE (DBRMs) field 202
 SET DEGREE field 178
 SET DEGREE (Packages) field 203
 SET field 178
 SET HOST (All) field 203
 SET HOST (DBRMs) field 203
 SET HOST field 178
 SET HOST (Packages) field 203
 SET (Packages) field 202
 SET PKGSET (All) field 203
 SET PKGSET (DBRMs) field 203
 SET PKGSET field 178
 SET PKGSET (Packages) field 203
 SET RULES 179, 203
 SET SQLID (All) field 203
 SET SQLID (DBRMs) field 203

sources (*continued*)

SYSIBM.SYSPACKSTMT (*continued*)
 SET SQLID field 179
 SET SQLID (Packages) field 203
 SQL TEXT field 220
 STMTNO field 127, 220
 STMTS (All) field 204
 STMTS field 179
 STMTS (Packages) field 204
 UPDATES (All) field 204
 UPDATES field 179
 UPDATES (Packages) field 204
 VERSION field 221
 WHENEVER (All) field 205
 WHENEVER field 179
 WHENEVER (Packages) field 205
 SYSIBM.SYSPACKSTMT.STMTNO
 STMT NO. field 142
 SYSIBM.SYSPKSYSTEM
 CONNECT field 165
 ENABLE field 165
 SYSTEM field 165
 SYSIBM.SYSPLAN 217, 244
 AC (Acquire) field 193
 ACQUIRE field 105
 AVERAGE SIZE field 106
 AVGSIZE field 193
 BIND DATE field 106, 193
 BIND TIME field 106, 193
 BOUND BY field 106, 193
 CACHE SIZE field 106
 CACHESZ (Cache Size) field 193
 CALL 193
 CD field 194
 CREATOR field 195
 CREATOR (Plan) field 110
 DYNAMICRULES 197
 DYNAMICRULES= field 112
 EXPLAIN (Plans) field 113
 GROUP MEMBER 199
 IS (Isolation) field 199
 ISOLATION (Plans) field 116
 OP (Operative) field 200
 OPERATIVE (Plan) field 120
 PLAN CREATOR field 62
 PLAN field 121, 200, 244
 PLAN INFORMATION field 218
 PLAN NAME field 217
 PLAN SIZE field 121
 PLENTRIES field 122, 200
 PLSIZE field 201

sources (*continued*)

SYSIBM.SYSPLAN (*continued*)
 QUALIFIER field 201
 QUALIFIER (Plan) field 122
 RE (Release) field 201
 RELEASE (Plans) field 123
 SERVER field 124, 202
 SYSENTRIES field 204
 SYSENTRIES (Plans) field 128
 VA (Validate) field 204
 VALID (Plans) field 129
 VALIDATE (Plans) field 130
 VD (Valid) field 205
 SYSIBM.SYSPLAN.DEFERPREP
 DEFERPREP field 35
 SYSIBM.SYSPLAN.DEGREE
 DEGREE field 111, 196
 DG field 196
 SYSIBM.SYSPLAN.DISCONNECT
 DI field 197
 DISCONNECT field 111, 197
 SYSIBM.SYSPLAN.PREDICATE
 SYSIBM.SYSPLANS
 DP (DeferPrep) field 197
 EXPREDICATE field 113, 198
 SYSIBM.SYSPLAN.SQLRULES
 SQ field 204
 SQLRULES field 125, 204
 SYSIBM.SYSPLSYSTEM
 CONNECT field 184
 ENABLE field 184
 SYSTEM field 184
 SYSIBM.SYSSTMT 193, 220
 ALTER (All) field 193
 ALTER (DBRM) field 193
 ALTER field 60
 CLOSE (DBRMs) field 194
 CLOSE field 60, 194
 COMMIT (All) field 194
 COMMIT (DBRM) field 194
 COMMIT field 60
 CONNECT (All) field 194
 CONNECT (DBRM) field 194
 CONNECT field 60
 CREATE (All) field 195
 CREATE (DBRM) field 195
 CREATE field 60
 D#TS field 60
 DBRM/PACKAGE NAME field 110
 DCLARE CSR 195
 DECLARE CURSOR (All) field 195

sources (*continued*)

SYSIBM.SYSSTMT (*continued*)
 DECLARE CURSOR (DBRM) field 195
 DECLARE CURSOR field 61
 DECLARE STATEMENT (All) field 195
 DECLARE STATEMENT (DBRM)
 field 195
 DECLARE STATEMENT field 61
 DECLARE TABLE (All) field 196
 DECLARE TABLE (DBRM) field 196
 DECLARE TABLE field 61
 DELETES (All) field 196
 DELETES (DBRM) field 196
 DELETES field 61
 DESCRIBE (All) field 196
 DESCRIBE (DBRM) field 196
 DESCRIBE field 61
 DROP (All) field 197
 DROP (DBRM) field 197
 DROP field 61
 EXECUTE (All) field 197
 EXECUTE (DBRM) field 198
 EXECUTE field 61
 EXPLAIN (All) field 198
 EXPLAIN (DBRM) field 198
 EXPLAIN field 61
 FETCH (All) field 198
 FETCH (DBRM) field 198
 FETCH field 61
 GRANT (All) field 199
 GRANT (DBRM) field 199
 GRANT field 61
 INSERTS (All) field 199
 INSERTS (DBRM) field 199
 INSERTS field 61
 IS field 218
 LCK SHR (All) field 199
 LCK SHR (DBRM) field 199
 LCK SHR field 62
 LCK XCL (All) field 199
 LCK XCL (DBRM) field 200
 LCK XCL field 62
 OPEN (All) field 200
 OPEN (DBRM) field 200
 OPEN field 62
 PLAN field 200
 PLAN NAME field 140
 PREPARE (All) field 201
 PREPARE (DBRM) field 201
 PREPARE field 62
 RELEASE (All) field 201

sources (*continued*)

SYSIBM.SYSSTMT (*continued*)
 RELEASE (DBRM) field 201
 RELEASE field 62, 178
 RELEASE (Package) field 201
 REVOKE (All) field 201
 REVOKE (DBRM) field 201
 REVOKE field 62
 ROLLBACK (All) field 201
 ROLLBACK (DBRM) field 202
 ROLLBACK field 62
 SELECTS (All) field 202
 SELECTS (DBRM) field 202
 SELECTS field 63
 SET (All) field 202
 SET CONNECT (All) field 202
 SET CONNECT (DBRMs) field 202
 SET CONNECT field 63
 SET CONNECT (Packages) field 202
 SET (DBRM) field 202
 SET DEGREE (All) field 202
 SET DEGREE (DBRMs) field 202
 SET DEGREE field 63
 SET DEGREE (Packages) field 203
 SET field 63
 SET HOST (All) field 203
 SET HOST (DBRMs) field 203
 SET HOST field 63
 SET HOST (Packages) field 203
 SET PKGSET (All) field 203
 SET PKGSET (DBRMs) field 203
 SET PKGSET field 63
 SET PKGSET (Packages) field 203
 SET RULES 203
 SET RULES field 63
 SET SQLID (All) field 203
 SET SQLID (DBRMs) field 203
 SET SQLID field 63
 SET SQLID (Packages) field 203
 SQL TEXT field 124, 220
 STMTNO field 220
 STMTS (All) field 204
 STMTS (DBRM) field 204
 STMTS field 63
 UPDATES (All) field 204
 UPDATES (DBRM) field 204
 UPDATES field 63
 WHENEVER (All) field 205
 WHENEVER (DBRM) field 205
 WHENEVER field 63

sources (*continued*)

SYSIBM.SYSSTMT.STMTNO
 STMT NO. field 142
 SYSIBM.SYSTABLE 217
 TABLE NAME field 217
 SYSIBM.SYSTABLEPART
 CARD field 71, 107, 250
 CHECKFLAG field 72, 107, 251
 CKRID field 72, 108, 251
 COMPRESS field 74, 252
 FARINDREF field 75, 113, 253
 FREEPAGE field 75, 114, 254
 IXCREATOR field 76, 116, 255
 IXNAME field 76, 116, 255
 NEARINDREF field 77, 119, 256
 PAGESAVE field 78, 257
 PARTITION field 78, 120, 257
 PCTFREE field 78, 120, 257
 PERCACT field 79, 121, 257
 PERCDROP field 79, 121, 258
 PQTY field 79, 122, 258
 SPACE field 259
 SQTY field 80, 259
 STATSTS field 80, 259
 STORNAME field 81, 128, 260
 STORTYPE field 81, 128, 260
 SUBPAG= field 128
 TSTP field 129, 260
 VCATNAME field 82, 130, 261
 SYSIBM.SYSTABLEPART.COMPRESS.CARD
 COMPRESS (TSTP) field 109
 SYSIBM.SYSTABLEPART.GBPCACHE
 GBPCACHE (TSTP) field 76, 115, 254
 SYSIBM.SYSTABLEPART.PAGESAVE
 PAGESAVE (TSTP) field 120
 SYSIBM.SYSTABLEPART.SPACE
 SPACE (TSTP) field 124
 SYSIBM.SYSTABLEPART.STATSTIME
 STATSTS (TSTP) field 127
 SYSIBM.SYSTABLES
 ALTERED field 105
 ALERTS field 71, 250
 AUDIT field 71, 106, 250
 CARD field 71, 106, 250
 CHECKFLAG field 107
 CHECKS field 72, 107, 251
 CHILD field 72, 107, 251
 CKFLAG field 72, 251
 CKRID field 72, 108, 251
 CLUSTERTYPE field 73, 109, 252
 COLCOUNT field 73, 109, 252

sources (*continued*)

SYSIBM.SYSTABLES (*continued*)
 CREATEBY field 74, 110, 253
 CREATED field 110
 CREATETS field 74, 253
 CREATOR field 241
 DATAC field 74, 253
 EDPROC field 74, 112, 253
 KEYCOLUMNS field 76, 255
 KEYOBID field 77, 117, 255
 LOCATION field 77, 118, 241, 255
 NAME field 241
 NPAGES field 78, 119, 256
 OBID field 78, 119
 PARNT field 78, 120, 257
 PCTPAGES field 78, 257
 PCTROWCOMP field 79, 257
 RBA1 field 79, 258
 RBA2 field 79, 258
 RECLEN field 79, 123, 258
 STATSTS field 80, 259
 STATUS field 81, 259
 TBCREATR field 81, 128, 260
 TBL field 81, 128, 260
 TBNAME field 82, 129, 260
 TYPE field 82, 129, 261
 VALPROC field 82, 130, 261
 SYSIBM.SYSTABLES.DATACAPTURE
 DATACAPTURE (TBL) field 110
 SYSIBM.SYSTABLESPACE
 BPOOL field 71, 106, 250
 CLOSERULE field 73, 108, 251
 CREATEBY field 74, 110, 253
 CREATOR field 74, 110, 253
 DBID field 74, 110, 253
 DSETPASS field 74, 112, 253
 ERASERULE field 75, 113, 253
 IMPLICIT field 76, 115, 254
 LOCKMAX field 77, 118, 255
 LOCKRULE field 77, 118, 256
 NACTIVE field 77, 118, 256
 NTABLES field 78, 119, 256
 OBID field 78, 119, 257
 PARTITIONS field 78, 120, 257
 PGSIZE field 79, 121, 258
 PSID field 79, 122, 258
 SEGSIZE field 80, 124, 258
 SPACE field 80, 124, 258
 STATSTS field 80, 259
 STATUS field 81, 127, 260
 TS field 82, 129, 260

sources (*continued*)

- SYSIBM.SYSTABLESPACE (*continued*)
 - TSTP field 82
- SYSIBM.SYSTABLESPACE.STATSTIME
 - STATSTS (TS) field 127
- SYSIBM.SYSTABLES.PCTROWCOMP
 - PCTROWCOMP (TBL) field 121
- SYSIBM.SYSTABLES.RBA1
 - RBA1 (TBL) field 123
- SYSIBM.SYSTABLES.RBA2
 - RBA2 (TBL) field 123
- SYSIBM.SYSTABLES.STATSTIME
 - STATSTS (TBL) field 127
- SYSIBM.SYSTABLESTATS.STATSTIME
 - STATSTSP (TSTP) field 127
- SYSIBM.SYSTABSTATS
 - CARDP field 71, 250
 - NACTIVE field 77, 256
 - NPAGES field 78, 256
 - PCTPAGES field 79, 257
 - PCTROWCOMP field 79, 257
 - STATSTSP field 80, 259
- SYSIBM.SYSTABSTATS.CARD
 - CARDP (TSTP) field 107
- SYSIBM.SYSTABSTATS.NACTIVE
 - NACTIVE (TSTP) field 119
- SYSIBM.SYSTABSTATS.NPAGES
 - NPAGES (TSTP) field 119
- SYSIBM.SYSTABSTATS.PCTPAGES
 - PCTROWCOMP (TSTP) field 121
- SYSIBM.SYSTABSTATS.PCTROWCOMP
 - PCTROWCOMP (TSTP) field 121
- SYSPACKAGE.KEEPDYNAMIC
 - KEEPDYNAMIC field 176
 - KEEPDYNAMIC (Packages) field 117
- SYSPACKAGE.REOPTVAR
 - REOPT(VAR) field 178
 - REOPT(VAR)(Packages) field 124
 - REOPT(VAR)(Plans) field 124
- SYSPLAN.KEEPDYNAMIC
 - KD(KEEPDYNAMIC) field 199
 - KEEPDYNAMIC (Plans) field 117
- SYSPLAN.REOPTVAR
 - RO(REOPTVAR) field 201
- SPACE field
 - on the Estimator panel 80
 - on the EXPLAIN panel 124
 - on the Whatif panel 258, 259
- SPACE (IXP) field
 - on the EXPLAIN panel 124
- SPACE (TSTP) field
 - on the EXPLAIN panel 124
- SPECIFY...TO DETERMINE WHEN TWO PACKAGES ARE THE SAME
 - on the Build Tuning Parameters panel 283
- SPF (Sequential Prefetch) field
 - on the Statement Costs panel 54
- SQ field
 - on the Plans panel 204
- SQL
 - See* fields, statements
- SQL Defaults panel 377
- SQL DELIMITER field
 - on the SQL Formats for KTEXPL panel 381
- SQL Formats for KTEXPL 379
- SQL STRING DELIMITER FOR KTEXPL field
 - on the SQL Defaults panel 378
- SQL TEXT field
 - on the EXPLAIN panel 124
 - on the Statements panel 220
- SQLCODE field
 - on the EXPLAIN panel 124
- SQLCODEs
 - 417 56, 290
 - 418 56, 290
- SQLERR field
 - on the EXPLAIN panel 125
- SQLERROR field
 - on the BIND/REBIND Package panel 28
 - on the EXPLAIN panel 125
 - on the Packages panel 178
- SQLRULES field 37
 - on the BIND/REBIND Plan panel 37
 - on the EXPLAIN panel 125
 - on the Plan BIND Overrides panel 345
 - on the Plans panel 204
- SQLSTATE field
 - on the EXPLAIN panel 124
- SQTY field
 - on the Estimator panel 80
 - on the EXPLAIN panel 125
 - on the Whatif panel 259
- SR field
 - on the Extract History panel 150
- SRC G field
 - on the EXPLAIN panel 125

- SRC G (Sorts - Group By) field
 - on the composite table 141
 - on the EXPLAIN Compare panel 141
- SRC ID field
 - on the EXPLAIN Compare panel 141
 - on the EXPLAIN panel 125
- SRC J field
 - on the EXPLAIN panel 125
- SRC J (Sort - Join) field
 - on the composite table 141
 - on the EXPLAIN Compare panel 141
- SRC O field
 - on the EXPLAIN panel 125
- SRC O (Sort - Order By) field
 - on the composite table 141
 - on the EXPLAIN Compare panel 141
- SRC U field
 - on the EXPLAIN panel 125
- SRC U (Sort - Unique) field
 - on the composite table 141
 - on the EXPLAIN Compare panel 141
- SRN G field
 - on the EXPLAIN panel 126
- SRN G (Sorts - Group By) field
 - on the EXPLAIN Compare panel 142
 - on the new table 142
- SRN ID field
 - on the EXPLAIN Compare panel 142
 - on the EXPLAIN panel 126
- SRN J field
 - on the EXPLAIN panel 126
- SRN J (Sort - Join) field
 - on the EXPLAIN Compare panel 142
 - on the new table 142
- SRN O field
 - on the EXPLAIN panel 126
- SRN O (Sort - Order By) field
 - on the EXPLAIN Compare panel 142
 - on the new table 142
- SRN U field
 - on the EXPLAIN panel 126
- SRN U (Sort - Unique) field
 - on the EXPLAIN Compare panel 142
 - on the new table 142
- SRT (Sorts - Total) field
 - on the Statement Costs panel 54
- STATEMENT COST field
 - on the EXPLAIN panel 126
- statement cost information 95
- statement text 95
- STATEMENT TYPE
 - on the EXPLAIN panel 126
- statements
 - in plan 204
- STATEMENTS EXTRACT DATASET DATA
 - BUFFERS field
 - on the VSAM Tuning Parameters panel 384
- STATEMENTS EXTRACT DATASET INDEX
 - BUFFERS field
 - on the VSAM Tuning Parameters panel 384
- STATEMENTS field
 - on the !DB/EXPLAIN Configuration Information panel 289
 - on the Packages panel 179
- Statements panel 212
- Statistics Gathering panel 70
- Statistics Update panel 70
- STATS TIMESTAMP field
 - on the Column Distribution Statistics panel 43
 - on the Table Columns panel 233
- STATSTS field
 - on the Estimator panel 80
 - on the Whatif panel 259
- STATSTS (IX) field
 - on the EXPLAIN panel 127
- STATSTS (IXP) field
 - on the EXPLAIN panel 127
- STATSTS (TBL) field
 - on the EXPLAIN panel 127
- STATSTS (TS) field
 - on the EXPLAIN panel 127
- STATSTS (TSTP) field
 - on the EXPLAIN panel 127
- STATSTSP field
 - on the Estimator panel 80
 - on the Whatif panel 259
- STATSTSP (IXP) field
 - on the EXPLAIN panel 127
- STATSTSP (TSTP) field
 - on the EXPLAIN panel 127
- STATUS field
 - on the Estimator panel 81
 - on the EXPLAIN panel 127
 - on the Libraries panel 158
 - on the Verification panel 244
 - on the Whatif panel 259, 260

- STMT COST
 - on the EXPLAIN Compare panel 142
 - on the EXPLAIN panel 127
- STMT COST field
 - on the EXPLAIN History panel 147
- STMT NO. field
 - on the EXPLAIN Compare panel 142
- STMTNO field
 - on the EXPLAIN panel 127
 - on the Statements panel 220
- STMTS field
 - on the DBRMs panel 63
 - on the Packages panel 179
 - on the PLANS panel 204
- STORAGE AMOUNT FOR KTEXPL field
 - on the SQL Defaults panel 378
- STORNAME field
 - on the Estimator panel 81
 - on the EXPLAIN panel 128
 - on the Whatif panel 260
- STORTYPE field
 - on the Estimator panel 81
 - on the EXPLAIN panel 128
 - on the Whatif panel 260
- ST(STATUS) field
 - on the Statements panel 220
 - SYSPACKSTMT.STATUS 220
 - ST(STATUS) field 220
 - SYSSTMT.STATUS 220
- SU (Sorts - Unique) field
 - on the Statement Costs panel 54
- SUBPAG= field
 - on the EXPLAIN panel 128
- SUFFIX TO USE FOR PLAN BIND COMPARE field
 - on the BIND Compare Options panel 280
- SUPPRESS INFORMATIONAL MESSAGES IN BATCH? field
 - on the Miscellaneous Defaults panel 324
- synonyms
 - in parser exit to DB2 311
- SYSENTRIES field
 - from packages 128
 - from plans 128
 - on the EXPLAIN panel 128
 - on the Plans panel 204
- SYSENTRY field
 - on the Packages panel 179
- SYSIBM.PACKSTMT
 - SQL TEXT field 124
- SYSIBM.PLAN_TABLE
 - J T= field 116, 139
 - P R= field 120, 140
- SYSIBM.SYSCOLDIST
 - PART field 43
 - STATS TIMESTAMP field 43
- SYSIBM.SYSCOLDISTSTATS
 - FREQ% field 43
 - STATS TIMESTAMP field 43
 - VALUE field 43
- SYSIBM.SYSCOLSTATS
 - COLCARD field 230
 - HIGH2KEY NULL field 231
 - HIGH2KEY VALUE field 231
 - HIGHKEY NULL field 230
 - HIGHKEY VALUE field 230
 - LOW2KEY NULL field 232
 - LOW2KEY VALUE field 232
 - LOWKEY NULL field 232
 - LOWKEY VALUE field 232
 - PART field 233
 - STATS TIMESTAMP field 233
- SYSIBM.SYSCOLUMNS
 - COLCARD field 230
 - COLNO field 230
 - COLTYPE field 230
 - DEFAULT field 230
 - FLDPROC field 230
 - HIGH2KEY NULL field 231
 - HIGH2KEY VALUE field 231
 - KEYSEQ field 231
 - LENGTH field 231
 - LOW2KEY NULL field 232
 - LOW2KEY VALUE field 232
 - NULLS field 233
 - SCALE field 233
 - STATS TIMESTAMP field 233
- SYSIBM.SYSCOLVALUE
 - NULL field 43
- SYSIBM.SYSDBRM
 - ALL field 158
 - CH (Charset) field 60
 - CO (Comma) field 60
 - COUNT (All) field 195
 - COUNT (DBRM) field 195
 - CREATOR field 195
 - DBRM field 60, 244
 - DBRM NAME field 217

- SYSIBM.SYSDBRM** (*continued*)
- DBRM/PACKAGE field 52
 - DBRMS field 158
 - DE (Dec31) field 61
 - HL (Hostlang) field 61
 - LIBRARY field 62
 - LIBRARY NAME field 244
 - MX (Mixed) field 62
 - PLAN HEADING field 62
 - PRECOMPILE DATE field 219
 - PRECOMPILE DATE/TIME field 62, 147, 244
 - PRECOMPILE TIMESTAMP field 53
 - QU (Quote) field 62
 - VERSION field 63, 130, 221, 244
- SYSIBM.SYSINDEXES**
- BPOOL field 71, 106, 250
 - CLOSERULE field 72, 108, 251
 - CLUSTERED field 73, 108, 252
 - CLUSTERING field 73, 108, 252
 - CLUSTRATIO field 73, 109, 252
 - CLUSTRATIO (IXP) field 109
 - COLCOUNT field 73, 109, 252
 - CREATEBY field 74, 110, 252
 - DSETPASS field 74, 112, 253
 - ERASERULE field 74, 113, 253
 - FIRSTKEY field 75, 114, 254
 - FULLKEY field 75, 114, 254
 - INDEXSPACE field 115, 255
 - INDEXTYPE field 76, 115, 255
 - ISOBID field 76, 115, 255
 - IX field 76, 116, 255
 - NLEAF field 77, 119, 256
 - NLEVELS field 77, 256
 - OBID field 78, 119, 257
 - PGSIZE field 79, 121, 258
 - SPACE field 80, 124, 258
 - STATSTS field 259
 - STATUS field 80
 - UNIQUE field 82, 129, 261
- SYSIBM.SYSINDEXES.STATSTIME**
- STATSTS (IX) field 127
- SYSIBM.SYSINDEXESTATS**
- CLUSTRATIO field 252
- SYSIBM.SYSINDEXPART**
- CARD field 71, 106, 250
 - FAROFFPOS field 75, 113, 254
 - FREEPAGE field 75, 114, 254
 - IXP field 76, 116, 255
 - LEAFDIST field 77, 117, 255
- SYSIBM.SYSINDEXPART** (*continued*)
- NEAROFFPOS field 77, 119, 256
 - PARTITION field 78, 120, 257
 - PCTFREE field 78, 120, 257
 - PQTY field 79, 122, 258
 - SPACE field 80, 258
 - SQTY field 80, 125, 259
 - STATSTS field 80, 259
 - STORNAME field 81, 128, 260
 - STORTYPE field 81, 128, 260
 - VCATNAME field 82, 130, 261
- SYSIBM.SYSINDEXPART.GBPCACHE**
- GBPCACHE (IXP) field 75, 114, 254
- SYSIBM.SYSINDEXPART.SPACE**
- SPACE (IXP) field 124
- SYSIBM.SYSINDEXPART.STATSTIME**
- STATSTS (IXP) field 127
- SYSIBM.SYSINDEXSPACE**
- INDEXSPACE field 76
- SYSIBM.SYSINDEXSTATS**
- CLUSTRATIO field 73
 - FIRSTKEY field 75, 254
 - FULLKEY field 75, 254
 - KEYCNT field 76, 255
 - NLEAF field 77, 256
 - NLEVELS field 78, 256
 - STATSTSP field 80, 259
- SYSIBM.SYSINDEXSTATS.FIRSTKEYCARD**
- FIRSTKEY (IXP) field 114
- SYSIBM.SYSINDEXSTATS.FULLKEYCARD**
- FULLKEY (IXP) field 114
- SYSIBM.SYSINDEXSTATS.KEYCOUNT**
- KEYCNT (IXP) field 117
- SYSIBM.SYSINDEXSTATS.NLEAF**
- NLEAF (IXP) field 119
- SYSIBM.SYSINDEXSTATS.NLEVELS**
- NLEVELS (IXP) field 119
- SYSIBM.SYSINDEXSTATS.STATSTIME**
- STATSTSP (IXP) field 127
- SYSIBM.SYSKEYCOLUMNS**
- KEYCOLUMNS field 117
- SYSIBM.SYSKEYS.COLNAME**
- COLUMN NAME field 154
- SYSIBM.SYSKEYS.COLNO**
- COLUMN NO field 154
- SYSIBM.SYSKEYS.COLSEQ**
- COLUMN SEQ field 154
- SYSIBM.SYSKEYS.IXCREATOR**
- IXCREATOR field 154

- SYSIBM.SYSKEYS.IXNAME
 IXNAME field 154
 SYSIBM.SYSKEYS.ORDERING
 ORDERING field 154
 SYSIBM.SYSPACKAGE
 ALL field 158
 AVSIZE field 106, 172
 BIND DATE/TIME field 172
 BOUND field 106, 172
 CH (Charset) field 172
 CHARSET field 107
 CO (Comma) field 172
 COLLECTION field 172
 COLLECTION ID field 109
 COLLID field 244
 COMMA field 109
 CONTOKEN field 109, 173
 COUNT (All) field 195
 COUNT (Packages) field 195
 CREATED field 173
 CREATOR field 173
 CREATOR (Packages) field 110
 DBRM/PACKAGE field 52
 DE (Dec31) field 173
 DEC31 field 111
 DEFERPREP field 111
 DP (DeferPrep) field 174
 EX (EXPLAIN) field 175
 EXPLAIN (Packages) field 113
 GROUP MEMBER= field 115
 HL (Hostlang) field 176
 HOSTLANG field 115
 IS (Isolation) field 176
 ISOLATION (Packages) field 116
 LIBRARY field 117, 176
 LIBRARY NAME field 244
 LOCATION field 244
 LOCATION (Packages) field 117
 MIXED field 118
 MX (Mixed) field 177
 on the EXPLAIN panel 109
 OP (Operative) field 177
 OPERATIVE (Packages) field 119
 OWNER field 120, 177
 PACKAGE field 120, 177, 244
 PACKAGE NAME field 217
 PKGS field 158
 PKSIZE field 121, 177
 PRECOMPILE DATE field 219
 PRECOMPILE DATE/TIME field 147, 244
 SYSIBM.SYSPACKAGE (*continued*)
 PRECOMPILE DATE/TME field 177
 PRECOMPILE TIME field 122
 PRECOMPILE TIMESTAMP field 53
 QU (Quote) field 177
 QUALIFIER field 177
 QUALIFIER (Packages) field 122
 QUOTE field 123
 RE (Release) field 177
 RELEASE (Packages) field 123
 REMOTE field 123
 REOPT(VAR)(Packages) field 124
 RM (Remote) field 178
 SE (SQLERROR) field 178
 SQLERR field 125
 SYSETRIES (Packages) field 128
 SYSETRY field 179
 VA (Validate) field 179
 VALID (Packages) field 129
 VALIDATE (Packages) field 130
 VD (Valid) field 179
 VERSION field 130, 179, 244
 SYSIBM.SYSPACKAGE.CONTOKEN
 CONTOKEN field 60
 SYSIBM.SYSPACKAGE.DEGREE
 DEGREE field 111, 173
 DG field 174
 SYSIBM.SYSPACKLIST
 COLLECTION ID field 186
 LOCATION field 40, 186
 PACKAGE field 186
 SEQNO field 186
 TIMESTAMP field 186
 SYSIBM.SYSPACKSTMT
 ALTER (All) field 193
 ALTER field 172
 ALTER (Packages) field 193
 CLOSE field 172, 194
 CLOSE (Packages) field 194
 COMMIT (All) field 194
 COMMIT field 172
 COMMIT (Packages) field 194
 CONNECT (All) field 194
 CONNECT field
 CONNECT (Packages) field 194
 CREATE (All) field 195
 CREATE field 173
 CREATE (Packages) field 195
 DBRM/PACKAGE NAME field 110
 DCL CSR 195

SYSIBM.SYSPACKSTMT (*continued*)

DECLARE CURSOR (All) field 195
 DECLARE CURSOR field 173
 DECLARE CURSOR (Packages) field 195
 DECLARE STATEMENT (All) field 195
 DECLARE STATEMENT field 173
 DECLARE STATEMENT (Packages) field 195
 DECLARE TABLE (All) field 196
 DECLARE TABLE field 173
 DECLARE TABLE (Packages) field 196
 DELETES (All) field 196
 DELETES field 174
 DELETES (Packages) field 196
 DESCRIBE (All) field 196
 DESCRIBE field 174
 DESCRIBE (Packages) field 196
 DROP (All) field 197
 DROP field 174
 DROP (Packages) field 197
 EXECUTE (All) field 197
 EXECUTE field 175
 EXECUTE (Packages) field 198
 EXPLAIN (All) field 198
 EXPLAIN field 175
 EXPLAIN (Packages) field 198
 FETCH (All) field 198
 FETCH field 175
 FETCH (Packages) field 198
 GRANT (All) field 199
 GRANT field 175
 GRANT (Packages) field 199
 INSERTS (All) field 199
 INSERTS field 176
 INSERTS (Packages) field 199
 K#TS field 176
 LCK SHR (All) field 199
 LCK SHR field 176
 LCK SHR (Packages) field 199
 LCK XCL (All) field 199
 LCK XCL field 176
 LCK XCL (Packages) field 200
 OPEN (All) field 200
 OPEN field 177
 OPEN (Packages) field 200
 PLAN NAME field 140
 PREPARE (All) field 201
 PREPARE field 177
 PREPARE (Packages) field 201
 REVOKE (All) field 201

SYSIBM.SYSPACKSTMT (*continued*)

REVOKE field 178
 REVOKE (Packages) field 201
 ROLLBACK (All) field 201
 ROLLBACK field 178
 ROLLBACK (Packages) field 202
 SELECTS (All) field 202
 SELECTS field 178
 SELECTS (Packages) field 202
 SET (All) field 202
 SET CONNECT (All) field 202
 SET CONNECT (DBRMs) field 202
 SET CONNECT field 178
 SET CONNECT (Packages) field 202
 SET DEGREE (All) field 202
 SET DEGREE (DBRMs) field 202
 SET DEGREE field 178
 SET DEGREE (Packages) field 203
 SET field 178
 SET HOST (All) field 203
 SET HOST (DBRMs) field 203
 SET HOST field 178
 SET HOST (Packages) field 203
 SET (Packages) field 202
 SET PKGSET (All) field 203
 SET PKGSET (DBRMs) field 203
 SET PKGSET field 178
 SET PKGSET (Packages) field 203
 SET RULES field 179
 SET SQLID (All) field 203
 SET SQLID (DBRMs) field 203
 SET SQLID field 179
 SET SQLID (Packages) field 203
 SQL TEXT field 220
 STMTNO field 220
 STMTS (All) field 204
 STMTS field 179
 STMTS (Packages) field 204
 UPDATES (All) field 204
 UPDATES field 179
 UPDATES (Packages) field 204
 VERSION field 221
 WHENEVER (All) field 205
 WHENEVER field 179
 WHENEVER (Packages) field 205

SYSIBM.SYSPACKSTMT.STMTNO
 STMT NO. field 142

SYSIBM.SYSPKSYSTEM
 CONNECT field 165
 ENABLE field 165

- SYSIBM.SYSPKSYSTEM (*continued*)
 SYSTEM field 165
- SYSIBM.SYSPLAN
 AC (Acquire) field 193
 ACQUIRE field 105
 AVERAGE SIZE field 106
 AVGSIZE field 193
 BIND DATE field 106, 193
 BIND TIME field 106, 193
 BOUND BY field 106, 193
 CACHE SIZE field 106
 CACHESZ (Cache Size) field 193
 CD field 194
 COLLECTION field 40
 CREATOR field 195
 DYNAMICRULES= field 112
 EXPLAIN (Plans) field 113
 IS (Isolation) field 199
 ISOLATION (Plans) field 116
 OP (Operative) field 200
 OPERATIVE (Plan) field 120
 PLAN CREATOR field 62
 PLAN field 121, 200, 244
 PLAN INFORMATION field 218
 PLAN NAME field 217
 PLAN SIZE field 121
 PLENTRIES field 122, 200
 PLSIZE field 201
 QUALIFIER field 201
 QUALIFIER (Plan) field 122
 RE (Release) field 201
 RELEASE (Plans) field 123
 REOPT(VAR)(Plans) field 124
 SERVER field 124, 202
 SYSENTRIES field 204
 VA (Validate) field 204
 VALID (Plans) field 129
 VALIDATE (Plans) field 130
 VD (Valid) field 205
- SYSIBM.SYSPLAN.CREATOR
 CREATOR (Plan) field 110
- SYSIBM.SYSPLAN.DEGREE
 DEGREE field 111, 196
 DG field 196
- SYSIBM.SYSPLAN.DISCONNECT
 DI field 197
 DISCONNECT field 111, 197
- SYSIBM.SYSPLANS
 DP (DeferPrep) field 197
 EXPREDICATE field 113, 198
- SYSIBM.SYSPLAN.SQLRULES
 SQ field 204
 SQLRULES field 125, 204
- SYSIBM.SYSPLAN.SYSENTRIES
 SYSENTRIES (Plans) field 128
- SYSIBM.SYSPLSYSTEM
 CONNECT field 184
 ENABLE field 184
 SYSTEM field 184
- SYSIBM.SYSSTMT
 ALTER (All) field 193
 ALTER (DBRM) field 193
 ALTER field 60
 CALL field 60
 CLOSE (DBRMs) field 194
 CLOSE field 60, 194
 COMMIT (All) field 194
 COMMIT (DBRM) field 194
 COMMIT field 60
 CONNECT (All) field 194
 CONNECT (DBRM) field 194
 CONNECT field 60
 CREATE (All) field 195
 CREATE (DBRM) field 195
 CREATE field 60
 D#TS field 60
 DBRM/PACKAGE NAME field 110
 DCL CSR 195
 DECLARE CURSOR (All) field 195
 DECLARE CURSOR (DBRM) field 195
 DECLARE CURSOR field 61
 DECLARE STATEMENT (All) field 195
 DECLARE STATEMENT (DBRM) field 195
 DECLARE STATEMENT field 61
 DECLARE TABLE (All) field 196
 DECLARE TABLE (DBRM) field 196
 DECLARE TABLE field 61
 DELETES (All) field 196
 DELETES (DBRM) field 196
 DELETES field 61
 DESCRIBE (All) field 196
 DESCRIBE (DBRM) field 196
 DESCRIBE field 61
 DROP (All) field 197
 DROP (DBRM) field 197
 DROP field 61
 EXECUTE (All) field 197
 EXECUTE (DBRM) field 198
 EXECUTE field 61
 EXPLAIN (All) field 198

SYSIBM.SYSSTMT (*continued*)

EXPLAIN (DBRM) field 198
 EXPLAIN field 61
 FETCH (All) field 198
 FETCH (DBRM) field 198
 FETCH field 61
 GRANT (All) field 199
 GRANT (DBRM) field 199
 GRANT field 61
 INSERTS (All) field 199
 INSERTS (DBRM) field 199
 INSERTS field 61
 LCK SHR (All) field 199
 LCK SHR (DBRM) field 199
 LCK SHR field 62
 LCK XCL (All) field 199
 LCK XCL (DBRM) field 200
 LCK XCL field 62
 OPEN (All) field 200
 OPEN (DBRM) field 200
 OPEN field 62
 PLAN field 200
 PLAN NAME field 140
 PREPARE (All) field 201
 PREPARE (DBRM) field 201
 PREPARE field 62
 RELEASE (All) field 201
 RELEASE (DBRM) field 201
 RELEASE field 62, 178
 RELEASE (Package) field 201
 REVOKE (All) field 201
 REVOKE (DBRM) field 201
 REVOKE field 62
 ROLLBACK (All) field 201
 ROLLBACK (DBRM) field 202
 ROLLBACK field 62
 SELECTS (All) field 202
 SELECTS (DBRM) field 202
 SELECTS field 63
 SET (All) field 202
 SET CONNECT (All) field 202
 SET CONNECT (DBRMs) field 202
 SET CONNECT field 63
 SET CONNECT (Packages) field 202
 SET (DBRM) field 202
 SET DEGREE (All) field 202
 SET DEGREE (DBRMs) field 202
 SET DEGREE field 63
 SET DEGREE (Packages) field 203
 SET field 63

SYSIBM.SYSSTMT (*continued*)

SET HOST (All) field 203
 SET HOST (DBRMs) field 203
 SET HOST field 63
 SET HOST (Packages) field 203
 SET PKGSET (All) field 203
 SET PKGSET (DBRMs) field 203
 SET PKGSET field 63
 SET PKGSET (Packages) field 203
 SET RULES field 63
 SET SQLID (All) field 203
 SET SQLID (DBRMs) field 203
 SET SQLID field 63
 SET SQLID (Packages) field 203
 SQL TEXT field 124, 220
 STMTNO field 127, 220
 STMTS (All) field 204
 STMTS (DBRM) field 204
 STMTS field 63
 UPDATES (All) field 204
 UPDATES (DBRM) field 204
 UPDATES field 63
 WHENEVER (All) field 205
 WHENEVER (DBRM) field 205
 WHENEVER field 63
 SYSIBM.SYSSTMT.STMTNO
 STMT NO. field 142
 SYSIBM.SYSTABLE
 TABLE NAME field 217
 SYSIBM.SYSTABLEOART.COMPRESS.CARD
 COMPRESS (TSTP) field 109
 SYSIBM.SYSTABLEPART
 CARD field 71, 107, 250
 CHECKFLAG field 72, 107, 251
 CKRID field 72, 108, 251
 COMPRESS field 74, 252
 FARINDREF field 75, 113, 253
 FREEPAGE field 75, 114, 254
 IXCREATOR field 76, 116, 255
 IXNAME
 on the Estimator panel 76
 IXNAME field 76, 116, 255
 NEARINDREF field 77, 119, 256
 PAGESAVE field 78, 257
 PARTITION field 78, 120, 257
 PCTFREE field 78, 120
 PERCACT field 79, 121, 257
 PERCDROP field 79, 121, 258
 PQTY field 79, 122, 258
 SPACE field 259

- SYSIBM.SYSTABLEPART** (*continued*)
- SQTY field 80, 259
 - STATSTS field 80, 259
 - STORNAME field 81, 128, 260
 - STORTYPE field 81, 128, 260
 - SUBPAG= field 128
 - TSTP field 260
 - VCATNAME field 82, 130, 261
- SYSIBM.SYSTABLEPART.DBNAME**
- TSTP field 129
- SYSIBM.SYSTABLEPART.GBPCACHE**
- GBPCACHE (TSTP) field 76, 115, 254
- SYSIBM.SYSTABLEPART.PAGESAVE**
- PAGESAVE (TSTP) field 120
- SYSIBM.SYSTABLEPART.SPACE**
- SPACE (TSTP) field 124
- SYSIBM.SYSTABLEPART.STATSTIME**
- STATSTS (TSTP) field 127
- SYSIBM.SYSTABLEPART.TSNAME**
- TSTP field 129
- SYSIBM.SYSTABLES**
- ALTERED field 105
 - ALERTS field 71, 250
 - AUDIT field 71, 106, 250
 - CARD field 71, 106, 250
 - CHECKFLAG field 107
 - CHECKS field 72, 107, 251
 - CHILD field 72, 107, 251
 - CKFLAG field 72, 251
 - CKRID field 72, 108, 251
 - CLUSTERTYPE field 73, 109, 252
 - COLCOUNT field 73, 109, 252
 - CREATEBY field 74, 110, 253
 - CREATED field 110
 - CREATETS field 74, 253
 - CREATOR field 241
 - DATAAC field 74, 253
 - EDPROC field 74, 112, 253
 - KEYCOLUMNS field 76, 255
 - KEYOBID field 77, 117, 255
 - LOCATION field 77, 118, 241, 255
 - NAME field 241
 - NPAGES field 78, 119, 256
 - OBID field 78, 119
 - PARNT field 78, 120, 257
 - PCTPAGES field 78, 257
 - PCTROWCOMP field 79, 257
 - RBA1 field 79, 258
 - RBA2 field 79, 258
 - RECLEN field 79, 123, 258
- SYSIBM.SYSTABLES** (*continued*)
- STATSTS field 80, 259
 - STATUS field 81, 127, 259
 - TBCREATR field 81, 128, 260
 - TBL field 81, 128, 260
 - TBNAME field 82, 129, 260
 - TYPE field 82, 129, 261
 - VALPROC field 82, 130, 261
- SYSIBM.SYSTABLES.DATACAPTURE**
- DATACAPTURE (TBL) field 110
- SYSIBM.SYSTABLESPACE**
- BPOOL field 71, 106, 250
 - CLOSERULE field 73, 108, 251
 - CREATEBY field 74, 110, 253
 - CREATOR field 74, 110, 253
 - DBID field 74, 110, 253
 - DSETPASS field 74, 112, 253
 - ERASERULE field 75, 113, 253
 - IMPLICIT field 76, 115, 254
 - LOCKMAX field 77, 118, 255
 - LOCKRULE field 77, 118, 256
 - NACTIVE field 77, 118, 256
 - NTABLES field 78, 119, 256
 - OBID field 78, 119, 257
 - PARTITIONS field 78, 120, 257
 - PGSIZE field 79, 121, 258
 - PSID field 79, 122, 258
 - SEGSIZE field 80, 124, 258
 - SPACE field 80, 124, 258
 - STATSTS field 80, 259
 - STATUS field 81, 127, 260
 - TS field 82, 129, 260
 - TSTP field 82
- SYSIBM.SYSTABLESPACE.STATSTIME**
- STATSTS (TS) field 127
- SYSIBM.SYSTABLES.PCTROWCOMP**
- PCTROWCOMP (TBL) field 121
- SYSIBM.SYSTABLES.RBA1**
- RBA1 (TBL) field 123
- SYSIBM.SYSTABLES.RBA2**
- RBA2 (TBL) field 123
- SYSIBM.SYSTABLES.STATSTIME**
- STATSTS (TBL) field 127
- SYSIBM.SYSTABLESTATS.STATSTIME**
- STATSTSP (TSTP) field 127
- SYSIBM.SYSTABSTATS**
- CARDP field 71, 250
 - NACTIVE field 77, 256
 - NPAGES field 78, 256
 - PCTPAGES field 79, 257

- SYSIBM.SYSTABSTATS (*continued*)
 PCTROWCOMP field 79, 257
 STATSTSP field 80, 259
 SYSIBM.SYSTABSTATS.CARD
 CARDP (TSTP) field 107
 SYSIBM.SYSTABSTATS.NACTIVE
 NACTIVE (TSTP) field 119
 SYSIBM.SYSTABSTATS.NPAGES
 NPAGES (TSTP) field 119
 SYSIBM.SYSTABSTATS.PCTPAGES
 PCTROWCOMP (TSTP) field 121
 SYSIBM.SYSTABSTATS.PCTROWCOMP
 PCTROWCOMP (TSTP) field 121
 SYSOUT HOLD CLASS field
 on the !DB/Tools Global Configuration
 Information panel 294
 SYSPACKAGE.DEFERPREPARE
 DEFERPREP field 173
 DEFERPREPARE field 111
 SYSPACKAGE.KEEPDYNAMIC
 KEEPDYNAMIC (Packages) field 117
 SYSPLAN.DEFERPREPARE
 DEFERPREPARE(Plans) field 112
 SYSPLAN.KEEPDYNAMIC
 KD(KEEPDYNAMIC) field 199
 KEEPDYNAMIC (Plans) field 117
 SYSPLAN.REOPTVAR
 RO(REOPTVAR) (Packages) field 201
 System Connection Names panel 25
 System Connection Types panel 32
 SYSTEM field 38, 165
 on the BIND/REBIND Package panel 28
 on the BIND/REBIND Plan panel 38
 on the Package Connections panel 165
 on the Plan Connections panel 184
 SYSTEM PDS field
 on the !DB/EXPLAIN Configuration
 Information panel 289
- T**
- Table Columns panel 227, 229
 Table Columns panels 226
 TABLE NAME field
 on the Statements panel 217
 TABLE ROW/INDEX field
 on the Estimator panel 81
 Table Space Scan field
 on the Statement Costs panel 54
 TABLE= field
 on the Column Distribution Statistics
 panel 43
 on the Table Columns panel 233
 TABLES dataset field
 on the !DB/Tools Global Configuration
 Information panel 294
 Tables panel 240
 TBCREATR field
 on the Estimator panel 81
 on the EXPLAIN panel 128
 on the Whatif panel 260
 TBL field
 on the Estimator panel 81
 on the EXPLAIN panel 128
 on the Whatif panel 260
 TBL= field
 on the EXPLAIN panel 128
 TBNAME field
 on the Estimator panel 82
 on the EXPLAIN panel 129
 on the Whatif panel 260
 telephone support 452
 TEMP DISK SYMBOLIC NAME field
 on the !DB/Tools Global Configuration
 Information panel 294
 terminology
 [] 12
 { } 12
 documentation conventions 12
 panel vs. display 12
 TIME field
 on the Data Formats panel 287
 TIMESTAMP field 186
 on the Data Formats panel 287
 on the Extract History panel 150
 on the Plan Package List panel 186
 TOTAL STATEMENT COST
 on the Packages panel 179
 TOTAL STATEMENT COST field
 on the DBRMs panel 63
 on the Statement Costs panel 54
 TOTAL STATEMENT field
 on the Tables panel 241
 TOTAL STMT COST field
 on the DBRMs panel 63
 on the Packages panel 179
 on the Statement Costs panel 54

TOTAL STMT field
 on the Tables panel 241

TS field
 on the Estimator panel 82
 on the EXPLAIN panel 129
 on the Whatif panel 260

TS (Table Space Scan) field
 on the Statement Costs panel 54

TSLOCKMODE field
 on the Statement Costs panel 52

TSTP field
 on the Estimator panel 82
 on the EXPLAIN panel 129
 on the Whatif panel 260

Tuning Parameters 382

TY
 on the Extract History panel 150

TYPE field
 on the Estimator panel 82
 on the EXPLAIN History panel 147
 on the EXPLAIN panel 129
 on the Whatif panel 261

TYPE OF SQL TO ISSUE field
 on the EXPLAIN/SQL Defaults panel 311

U

UNIQUE field
 on the Estimator panel 82
 on the EXPLAIN panel 129
 on the Whatif panel 261

Unique sort
 on the EXPLAIN Compare panel 142
 on the new table 142

Unique sorts
 on the composite table 141
 on the EXPLAIN Compare panel 141

UPDATE PROFILE DATASET field
 on the Extract Processing Defaults panel 314

UPDATES field
 from DBRMs 204
 from Packages 204
 on the DBRMs panel 63
 on the Packages panel 179
 on the Plans panel 204
 on the Tables panel 241

USE DATASPACE field
 on the Miscellaneous Defaults panel 325

USE LIBRARY SEARCH ORDER FOR
 COMMAND? field
 on the Package Bind Overrides panel 333
 on the Plan Bind Overrides panel 345

USE LIBRARY SEARCH ORDER FOR
 COMPARE? field
 on the Package Bind Overrides panel 333
 on the Plan Bind Overrides panel 345

USE LIBRARY SEARCH ORDER FOR
 CONVERT? field
 on the Package Bind Overrides panel 333
 on the Plan Bind Overrides panel 345

USE LIBRARY SEARCH ORDER FOR
 SELECT? field
 on the Package Bind Overrides panel 333
 on the Plan Bind Overrides panel 345

USE MEMBER LISTS? field
 on the Online Menu panel 161

USE OVERRIDES FOR COMMAND? field
 on the Package Bind Overrides panel 333
 on the Plan Bind Overrides panel 345

USE OVERRIDES FOR COMPARE? field
 on the Package Bind Overrides panel 334
 on the Plan Bind Overrides panel 346

USE OVERRIDES FOR CONVERT? field
 on the Package Bind Overrides panel 334
 on the Plan Bind Overrides panel 346

USE OVERRIDES FOR SELECT? field
 on the Package Bind Overrides panel 334
 on the Plan Bind Overrides panel 346

USE PACKAGE BIND OR CREATE
 TIMESTAMP IN DETERMINING RELATIVE
 AGES
 on the Build Tuning Parameters panel 283

USE REAL CATALOG TABLES FOR UPDT
 field
 on the Miscellaneous Defaults panel 325

Use This Dataset? field
 on the !DB/Tools Profile Dataset List
 panel 298

USER PDS field
 on the !DB/EXPLAIN Configuration
 Information panel 289

USER PDS TO SAVE DIFFERENCES IN field
 on the BIND Compare Options panel 280

USER PDS TO SAVE ERRORS IN field
 on the BIND Compare Options panel 280

USER PDS TO SAVE SAMES IN field
 on the BIND Compare Options panel 280

UTIL dataset
 on the !DB/Tools Global Configuration
 Information panel 294

V

VA (Validate) field
 on the Packages panel 179
 on the Plans panel 204

VALID field
 from packages 129
 from plans 129
 on the EXPLAIN panel 129
 on the Packages panel 179
 on the Plans panel 205

VALIDATE field 38
 from packages 130
 from plans 130
 on the BIND/REBIND Package panel 28
 on the BIND/REBIND Plan panel 38
 on the EXPLAIN panel 130
 on the Package BIND Overrides panel 334
 on the Packages panel 179
 on the Plan BIND Overrides panel 346
 on the Plans panel 204

VALPROC field
 on the Estimator panel 82
 on the EXPLAIN panel 130
 on the Whatif panel 261

VALUE field
 on the Column Distribution Statistics
 panel 43
 on the DBRM panel 63
 on the Host Variables panel 218

variables, host 311

VCATNAME field
 on the Estimator panel 82
 on the EXPLAIN panel 130
 on the Whatif panel 261

VD (Valid) field
 on the Packages panel 179
 on the Plans panel 205

Verification field
 on the Packages panel 179
 on the Plans panel 205

Verification panel 243

VERSION field
 of the DBRM or Package 130
 on the BIND/REBIND Package panel 28

VERSION field (*continued*)
 on the DBRMs panel 63
 on the EXPLAIN Compare panel 142
 on the EXPLAIN History panel 147
 on the EXPLAIN panel 130
 on the Packages panel 179
 on the Statement Costs panel 54
 on the Statements panel 221
 on the Verification panel 244

VIO SYMBOLIC NAME field
 on the !DB/Tools Global Configuration
 Information panel 294

VL (Value) field
 on the DBRM panel 63

VL (Verification) field
 on the Packages panel 179
 on the Plans panel 205

W

WARNING MESSAGE FOR NO EPX AUTH?
 field
 on the Miscellaneous Defaults panel 325

Whatif panel 245

WHEN TO CONSIDER TWO DBRMS TO BE
 THE SAME DBRM field
 on the Build Tuning Parameters panel 283

WHENEVER field
 from DBRMs 205
 from Packages 205
 on the DBRMs panel 63
 on the Packages panel 179
 on the Plans panel 205

WO field
 on the EXPLAIN panel 130, 142

WORK SIZE FOR SQL RESULTS field
 on the SQL Defaults panel 378

X

XCPT field
 on the Recommendations Panel 1 351
 on the Recommendations Panel 2 353
 on the Recommendations Panel 3 355
 on the Recommendations Panel 4 357
 on the Recommendations Panel 5 359
 on the Recommendations Panel 6 361
 on the Recommendations Panel 7 363

Index

XCPT field (*continued*)

- on the Recommendations Panel 8 365
- on the Recommendations Panel 9 368

User Comment Form

!DB®/EXPLAIN for DB2 Reference Version 500

TE53-5843-3

Please take a moment to share your comments and suggestions regarding Candle's documentation. Be as specific as possible.

Page #	Comment
①	_____
②	_____
③	_____
④	_____
⑤	_____
⑥	_____
⑦	_____

Please provide the following information. Thank you for your time and assistance.

Name

Job Function

Company

Site ID

Address

You may return your comments to us at your convenience. Upon receipt, we will respond to you within five business days.



FAX
(310) 727-4131



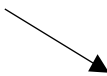
Fold, tape, and mail
(postage paid)
Please do not staple.

May we call to discuss your comments?

YES Phone number: _____ Best time to call: _____

NO

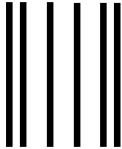
Cut or fold
along line



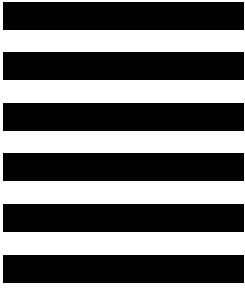
Fold and tape

Please do not staple

Fold and tape



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



BUSINESS REPLY MAIL
FIRST CLASS MAIL PERMIT NO 559 SANTA MONICA CA

POSTAGE WILL BE PAID BY ADDRESSEE



ATTN INFORMATION DEVELOPMENT
CANDLE CORPORATION
201 N DOUGLAS STREET
EL SEGUNDO CA 90245

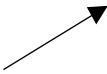


Fold and tape

Please do not staple

Fold and tape

Cut or fold
along line





* T E 5 3 - 5 8 4 3 - 3 *