



IBM File Manager for z/OS DB2 Feature

Program number 5655-V52

Tutorial

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This is the tutorial for the DB2[®] feature of IBM's File Manager for z/OS[®], one of the IBM zSeries[®] problem determination tools.

- File Manager DB2 utilities

- Print
- Object list
- Copy
- Export and import



In this section you will see how to use the File Manager DB2 Object List selection utility. You can use it to get a list of DB2 objects, such as tables and indexes, and then work with the objects in the list. Some people prefer to start edit or view by selecting from a list. You will see that there are many other tasks that can be started from the list.

Select Object List from the Utility Functions panel



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                Utility Functions
Command ==>> 4

1 Print      Print DB2 table or view
2 Objects    Create and drop DB2 objects
3 Copy       Copy data within DB2
4 Object List Display and process DB2 object lists
5 Privileges Manage DB2 privileges
6 Import     Import sequential or VSAM data into DB2
7 Export     Export DB2 data to sequential or VSAM data set
8 Create     Create DB2 test data
9 Utilities  DB2 utility job generation
10 Audit trail Print audit trail report
11 Print browse Browse FM/DB2 print data set
```

Enter

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Starting from the File Manager DB2 main menu, the object list can be accessed by way of the shortcut command “3.4”. Or, from the File Manager DB2 main menu select 3 for “Utilities”. Then on the Utilities menu, select 4 for Object List. Press Enter.

Enter the Owner and Name to list



Process Options Utilities Help

FM/DB2 (D91F) Object List Utility

Command ==> _____

blank Display object list P Print object list More: +

Object Identification Criteria:

Location _____ Enter * for list

Owner ALL* +

Name * +

Database/collect/schema _____ +

Additional Selection Criteria:

. Enter * to list catalog columns

Column _____ +

Operator _____

Value _____ +

Processing Options:

Object Type Enter ? to list all object types

3	1. Database	8. Package	15. Trigger
	2. Table space	9. Collection	16. Storage group
	3. Table/view/alias	10. DBRM	17. Sequence

Enter

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The Object List panel allows specifying a partial object name. Any combination of Location, Owner, Name, and Database can be used. Wildcards are also valid. An asterisk or percent sign is a wildcard for zero or more characters. An underscore is a wildcard for just one character. In this example, an owner ID of ALL*, is specified, and an * has been entered in the name field. This requests a list of all objects for that owner.

The lower portion of the panel has a selection for processing options, "Object Type". In this example a list of tables and views is wanted, so 3 Tables/view/alias is entered in the "object type" field. If the object type is wrong, the desired objects may not be displayed. Check this field when using the Object List Utility. Press Enter.

Matching tables, views and aliases are displayed Use ? to display available line commands



Process Options Utilities Help

FM/DB2 (D91F) Tables, Views and Aliases Top of 21
 Command ==> _____ Scroll PAGE
 21 rows fetched Format TABL

SEL	TABLE OWNER	TABLE NAME	DATABASE NAME	OBJECT TYPE	COLUMN COUNT	SPACE NAME	INTERNAL DATABASE IDENTIFIER
----	#2-----	#1-----1-----	#4-----	#57-+-	-----#8	#5-----	-----#6
**** Top of data ****							
---	ALLANSC	BILL_HISTORY	DSN00015	Table	9	BILLRHIS	286
---	ALLANSC	CLINIC_COST	DSN00017	Table	3	CLINICRC	288
---	ALLANSC	DEPT	DSN00035	Table	5	DEPT	307
---	?	ALLANSC	EMP	DSN00040	Table	14	EMP
---	ALLANSC	EMPCOPY1	DSN00041	Table	14	EMPCOPY1	313
---	ALLANSC	EMPCOPY2	DSN00043	Table	14	EMPCOPY2	315
---	ALLANSC	IMPORTEMP	DSN00045	Table	5	IMPORTEM	317
---	ALLANSC	INSURER	DSN00023	Table	6	INSURER	294
---	ALLANSC	INSURER_COST	DSN00019	Table	4	INSURERR	290
---	ALLANSC	INSURER_TRANSFER	DSN00021	Table	4	INSURERR	292
---	ALLANSC	PATIENT	DSN00027	View	8	PATIENTF	
---	ALLANSC	PATIENTF	DSN00027	Table	9	PATIENTF	
---	ALLANSC	PATIENT_HISTORY	DSN00025	Table	14	PATIENTR	

Enter

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A list of matching objects is displayed. There are numerous line commands available. In fact, there are so many that there is a special line command, question mark, that will display a list of them. ? is entered as a line command next to an item. Press Enter.


Object list line commands F8 to scroll down for more options



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)          Object List Line Commands          Row 1 of 44
Command ==>          Scroll PAGE

Type S against the required line command and press Enter.

Sel Command  Description
___ A         Alter object
___ ALS       Show aliases
___ AT        Show LOB column auxiliary table
___ B         Browse table
___ BT        Show base table for auxiliary table
___ C         Copy table
___ CDI       Show column distribution statistics
___ CH        Show child (dependent) tables
___ CHR       Show child (dependent) relations
___ CK        Show table check constraints
___ COL       Show columns
___ COM       Create a comment/remark
___ CON       Show table (unique/primary) constraints
___ CR        Create a similar object
___ CRA       Create an alias
```



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The list of line commands that can be used for the selected object are displayed. Common commands such as E for edit, B for browse, C for copy, and A for alter are available. There are several line commands that can be used to show additional information, such as COL for show columns, or D for show database. For a table, the available line commands do not fit on one screen. Press F8 to scroll forward in the list.

Select 'I' Details about table/view from the list



```
Process  Options  Utilities  Help
-----  -
FM/DB2 (D91F)          Object List Line Commands          Row 16 of 44
Command ==>>> _____          Scroll PAGE

Type S against the required line command and press Enter.

Sel Command  Description
___ CRX      Create an index
___ CS       Describe columns
___ D        Show database
___ DR       Drop object
___ E        Edit table
___ FK       Show foreign keys
___ G        Grant privileges
___ GEN      Generate SQL for table from DB2 catalog
S I        Details about table/view
___ LAB      Create a label
___ P        Show privileges
___ PA       Show parent tables
___ PAR      Show parent relations
___ PK       Show primary key
___ PKG      Show packages
```



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After scrolling down, the second page of the line commands are displayed.

Helpful actions like GEN for “Generate the SQL statement to create a table”, PR for print, and XC for show indexes and index columns, are available.

Scroll through the list to get familiar with the actions available. Here “I” Details about table/view command has been selected. This was done by entering an S in the Sel line command field next to the I entry in the list. Press Enter.

Table details are displayed



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                Table Details
Command ==>>>

Details about table (label) : ALLANSC.EMP                               More:  +

General Data:
Table owner      . . . . . : ALLANSC      + Created by      . . . . . : ALLANSC      +
Table name      . . . . . : EMP                               +
Database name   . . . . . : DSN00040      Table space name . . . . . : EMP
Created        . . . . . : 2008-08-27-04.14.05.350934
Altered       . . . . . : 2008-08-27-04.14.05.350934
Status        . . . . . : X - Primary key available
Check pending flag . . . . . : No                Restrict on DROP . . . . . : No
Maximum row length . . . . . : 97                Number of columns . . . . . : 14
Object ID for table : 3                        DB ID for database . . . . . : 312
Edit procedure name : N/A                    Validation proc . . . . . : N/A
Primary key OBID . . . . . : 6                Primary key columns . . . . . : 1
Parent relations . . . . . : 1                Check constraints . . . . . : 1
Child relations . . . . . : 0                Encoding scheme . . . . . : E - EBCDIC
Auditing . . . . . : AUDIT NONE              Data capture . . . . . : No
Release created . . . . . : Version 9          Dep. query tables . . . . . : 0
Data row fmt version : 0                    Partition key cols . . . . . : 0
```

F8

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The Table Details panel is displayed. It provides information about a table, including the database name, the primary key, parent and child relationships, and timestamps. There are also other line commands that will show additional types of information. Press F8 to scroll down and view additional table details.

Additional table details are displayed



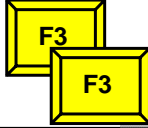
```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                               Table Details
Command ==> _____

Object ID for table : 3                      DB ID for database . : 312
Edit procedure name : N/A                    Validation proc . . . : N/A
Primary key OBID . . : 6                     Primary key columns . : 1
Parent relations . . : 1                     Check constraints . . : 1
Child relations . . . : 0                    Encoding scheme . . . : E - EBCDIC
Auditing . . . . . : AUDIT NONE              Data capture . . . . . : No
Release created . . : Version 9              Dep. query tables . . : 0
Data row fmt version : 0                     Partition key cols . . : 0
Split rows . . . . . : No                    Multi-level security : No

More: -

Statistical Data:
  No data available

Associated Remarks:
```



Additional table details are displayed Press F3 twice to return to the Object List Utility panel.

Select Name only from the list utility panel All Owner IDs will match



```
Process  Options  Utilities  Help
FM/DB2 (D91F)          Object List Utility
Command ==>

blank Display object list          P Print object list          More: +

Object Identification Criteria:
Location . . . . .
Owner . . . . . +
Name . . . . . *emp* +
Database/collect/schema . . . . . +

Additional Selection Criteria:
. . . . . Enter * to list catalog columns +
Column . . . . . +
Operator . . . . .
Value . . . . . +

Processing Options:
Object Type          Enter ? to list all object types
3 1. Database          8. Package          15. Trigger
  2. Table space      9. Collection       16. Storage group
  3. Table/view/alias 10. DBRM           17. Sequence
```

Wildcards:
* or % String
_ One character

Enter

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This example shows a list of objects being requested, using only the object name. An asterisk wildcard character is being used to search for '*emp*'. This will return matching entries with a name with emp in the field anywhere. The other fields, such as 'Owner' are left blank, so all owner IDs will match. Press Enter

Overtyping the Table Owner field to reduce the list



```

Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                Tables, Views and Aliases                Top of 18
Command ==>
18 rows fetched
Scroll PAGE
Format TABL

SEL  TABLE  TABLE  DATABASE OBJECT COLUMN SPACE  INTERNAL
     OWNER  NAME     NAME     TYPE     COUNT NAME  DATABASE
-----#2-----#1-----1-----#4-----#57-----#6
**** Top of data ****
-----#2-----#1-----1-----#4-----#57-----#6
ALLANSC EMP      DSN00040 Table 1 12
ALLANSC EMPCOPY1 DSN00041 Table 1 13
ALLANSC EMPCOPY2 DSN00043 Table 14 315
ALLANSC IMPORTEM DSN00045 Table 5 317
ALLANSC V_EMP_DEPT DSN00040 View 0
DSN8910 EEMP     DSN8D91A Table 260
DSN8910 EMP      DSN8D91A Table 260
DSN8910 EMPPROJACT DSN8D91A Table 260
DSN8910 VEMP     DSN8D91A View 0
DSN8910 VEMPDPT1 DSN8D91A View 7 DSN8S91D 0
DSN8910 VEMPLP   DSN8D91A View 2 DSN8S91E
DSN8910 VEMPPROJACT DSN8D91A View 6 DSN8S91P
TSS09 EMP      DSN00047 Table 14 EMP
  
```

The format can be changed to SNGL

The SORT command works with the column reference #

Enter

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A list of matching object names is displayed. Here are a few tips for working with the list. The format can be changed to single, to see one object at a time. SORT commands can be used to change the order of data presented. The list of objects can be reduced by overtyping the names in the column headings for Table Owner, Table Name, and Database fields. Here, the "Table Owner" heading is changed to "alla*". Press Enter. .

Select a table to browse using the B line command



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)          Tables, Views and Aliases          1 of 18
Command ==> _____          Scroll PAGE
Location: _____          Format TABL
SEL  TABLE  TABLE  DATABASE OBJECT COLUMN SPACE  TABLE
      OWNER  NAME      NAME      TYPE   COUNT NAME  SPACE  IDENTIFIER
-----
#2---+--- #1---+---1---+--- #4---+--- #57---+--- #8 #5---+--- #6
b_ ALLANSC EMP      DSN00040 Table   14 EMP      312
   ALLANSC EMPCOPY1  DSN00041 Table   14 EMPCOPY1  313
   ALLANSC EMPCOPY2  DSN00043 Table   14 EMPCOPY2  315
**** End of data ****
```



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Only the objects that match the new table and owner specifications are shown. Remember that you can enter line commands to get information or perform tasks. Here, a “B” (for browse) line command is typed next to a table. Press Enter.

File Manager DB2 browse panel is displayed



```
Process  Options  Utilities  Help
FM/DB2 (D91F)          DB2 Browse
Command ==> _____

DB2 Object:
Location . . . . . _____ Database . . . . . (optional)
Owner . . . . . ALLANSC + Table Space . . . . . (optional)
Name . . . . . EMP
Start position . . . . . _____
Row count . . . . . ALL Number of rows to browse

Template:
Data set name . . . . . 'TSS13.ADLAB.TEMPLATE'
Member . . . . . JANAMES

Processing Options:
Template usage          Enter "/", "A"lways to select option
3 1. Above             - Edit options
  2. Previous          - Edit template
  3. Generate from table - Re-edit template
  4. Generate/Replace

Enter
```

The Owner and Name fields are filled in

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The File Manager DB2 Browse panel is displayed. The name of the selected table is already filled in. Press Enter.

Selected table is displayed in browse



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                               Table Browse                               1 of 42
Command >>>>                               Scroll PAGE
TABLE ALLANSC.EMP                            Format TABL
EMPNO  FIRSTNME  MIDINIT  LASTNAME  WORKDEPT  PHONENO  HIREDATE  JOB
#1     #2         #3       #4        #5        #6       #7       #8  +
CH(6)  VARCHAR(12)  CH(1)    VARCHAR(15)  CH(3)    CH(4)    DATE     CH(8)
PU--> <-----1-> - <-----1-----> <-N <--> <-----> <----->
000010 CHRISTINE<  I      HAAS<    A00      3978     1965-01-01  PRES
000020 MICHAEL<   L      THOMPSON< B01      1111     1973-10-10  MANAGE
000030 SALLY<     A      KWANK<   C01      4738     1975-04-05  MANAGE
000050 JOHN<     B      GEYER<   E01      6789     1949-08-17  MANAGE
000060 IRVING<   F      STERN<   D11      6423     1973-09-14  MANAGE
000070 EVA<     D      PULASKI< D21      7831     1980-09-30  MANAGE
000090 EILEEN<   W      HENDERSON< E11      5498     1970-08-15  MANAGE
000100 THEODORE< Q      SPENSER< E21      0972     1980-06-19  MANAGE
000110 VINCENZO< G      LUCCHESI< A00      3490     1958-05-16  SALESR
000120 SEAN<     O'CONNELL< A00      2167     1963-12-05  CLERK
000130 DOLORES<  M      QUINTANA< C01      4578     1971-01-15  CLYS
000140 HEATHER<  A      NICHOLLS< C01      1793     1976-11-15  CLYS
000150 BRUCE<    ADAMSON<  D11      4510     1972-01-15  CLYS
000160 ELIZABETH< R      PIANKA<  D11      3782     1977-10-15  CLYS
000170 MASATOSHI< J      YOSHIMURA< D11      2890     1978-09-15  CLYS
```

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The table selected from the object list utility panel is displayed in the browser. Press F3 twice to return to the object list utility panel.

That is the end of this section, using the File Manager DB2 Object List utility.

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