



# IBM File Manager for z/OS DB2 Feature

Program number 5655-V52

## Tutorial

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

- Introduction
- View or edit commands
  - Starting the editor or viewer
  - Find, change, and locate data
  - Insert, repeat, and delete rows
  - The display formats and zoom
- Database navigation
  - Save and get
  - Print rows
  - Handling errors when saving
  - REDIT to related tables
- **File Manager DB2 options**
  - Review option settings

File Manager DB2 has a set of options that can be customized with personal preferences. They affect things like the types of information displayed in the browser and editor, and where output is written when a report is generated.

This section will describe many of the options, how to modify them, and some recommendations. As you watch this section, you can update your settings in File Manager DB2. Pause the tutorial as needed to check and customize the options on your system.

## Use the Options pull down –or–



The screenshot shows the IBM File Manager DB2 interface. At the top, there are four menu items: Process, Options, Utilities, and Help. The 'Options' menu is highlighted in yellow, and a yellow box with the word 'Enter' is positioned over it. Below the menu, a list of options is displayed, including '1. Print settings', '2. FM/DB2 system options', '3. Job card specifications', '4. Compiler language selection', '5. COBOL compiler specifications', '6. HLASM compiler specifications', '7. PL/I compiler specifications', '8. Temporary Data Set Allocations', '9. Output Data Set Allocations', '10. Trace options', '11. ISPF settings', '12. Editor options', '13. Copy utility options', '14. Object list utility', '15. Export utility options', '16. DB2 LOAD utility options', '17. DB2 Utility LISTDEF', '18. DB2 Utility OPTIONS', '19. DB2 Utility TEMPLAT', and '20. DB2 Unload utility'. To the right of the list, several settings are shown, such as ': TSS13', ': STLABF6', ': FMN2', ': 10.1.0', ': 3278A', ': 1', ': 2010/03/24', and ': 02:48'. At the bottom of the screen, there is a footer with the number '3', the text 'IBM File Manager DB2 for z/OS V10 Mentor Workshop', and 'W00 © 2010 IBM Corporation'.

There are two ways to get to the options panels

Bring down the options menu (put cursor on the word "Options" and press **Enter**.)

There are two ways to navigate to the options panels. The first way is to use the pull down of the options menu that is available on most panels. Place the cursor on the word “Options” at the top of the screen and press Enter. Then select one of the options categories. This method is useful when changing a single option setting. When the option has been modified, the F3 key will exit the option menu.

## Enter 0 (settings) on the command line



Process Options Utilities Help Select option 0 from the main menu

FM/DB2 (D91F) Primary Option Menu

Command ==> 0

0	Settings	Set processing options	User ID . . : TSS13
1	View	View DB2 object	System ID : STLABF6
2	Edit	Edit DB2 object	Appl ID . . : FMN2
3	Utilities	Perform utility functions	Version . . : 10.1.0
4	SQL	Prototype, execute and analyze SQL	Terminal . . : 3278A
5	DB2I	Start DB2 Interactive	Screen . . . : 1
6	Command	Enter and execute a DB2 Command	Date . . . . : 2010/03/24
X	Exit	Terminate FM/DB2	Time . . . . : 02:48

DB2 SSID . . D91F  
SQL ID . . . TSS13 +

F1=Help F2=Split F3=Exit F4=Expand F7=Backward F8=Forward  
F9=Swap F10=Left F11=Right F12=Cancel Enter

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The other way is to select option 0 from the File Manager DB2 main menu. In this example, 0 is entered on the command line. Press Enter.

## Select System options



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                Set Processing Options
Command ==> 0_

0 System                      System options
1 View                        View options
2 Edit                        Edit options
3 Utilities
 3.1 Print                    Print utility options
 3.3 Copy                      Copy utility options
 3.4 Object List              Object list utility options
 3.7 Export                   Export utility options
 3.L Load                    DB2 LOAD utility options
 3.U.L LISTDEF                DB2 Utility LISTDEF options
 3.U.O OPTIONS                DB2 Utility OPTIONS options
 3.U.T TEMPLATE               DB2 Utility TEMPLATE options
 3.U.U Unload                 DB2 Unload utility options

F1=Help    F2=Split    F3=Exit    F7=Backward  F8=Forward  F9=Sw
F12=Cancel

Enter
```

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The Set Processing Options panel is displayed. From here select any of the categories shown. Access to any of the options panels is available from this menu. This method is useful if numerous settings are being modified or reviewed. First, the print options will be described. Select option 0 System options, on the command line. Press Enter.

## Select Print settings



Process Options Utilities Help

---

FM/DB2 (D91F) Set System Processing Options

Command ==> 1

---

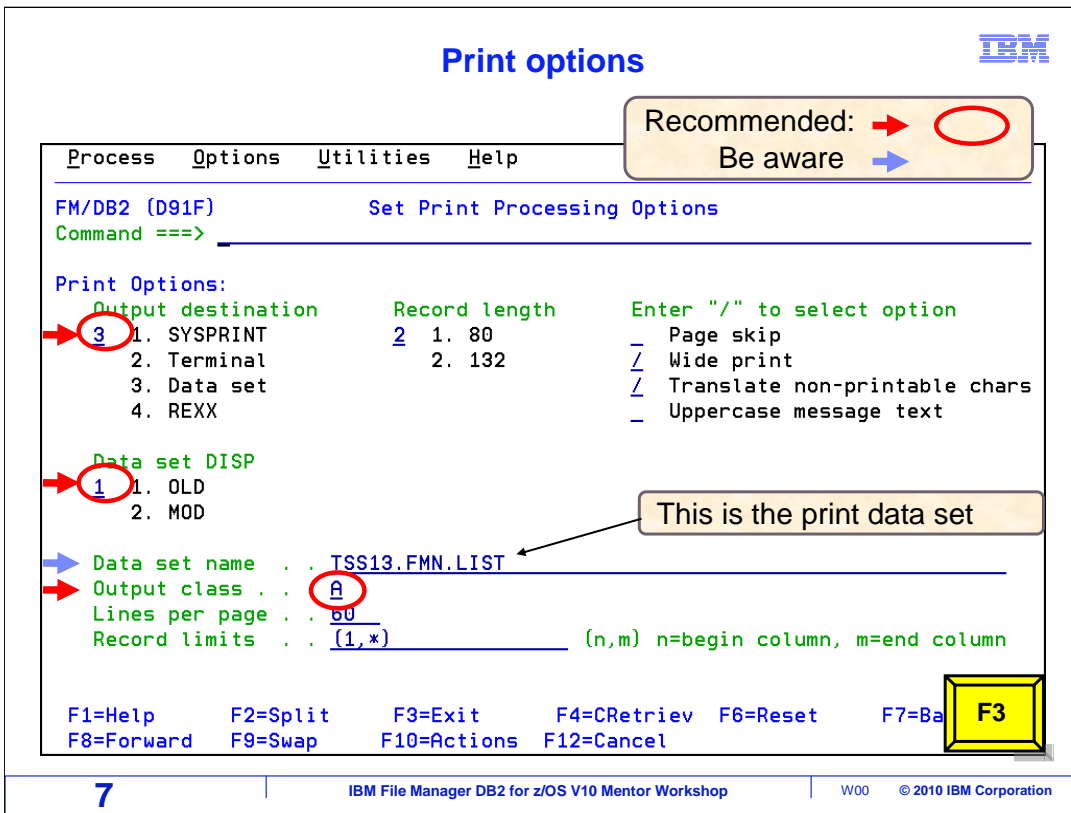
1	Print	Print settings
2	System	FM/DB2 system options
3	Batch	Job card specifications
4	LANG	Compiler language selection
5	COBOL	COBOL compiler specifications
6	HLASM	HLASM compiler specifications
7	PL/I	PL/I compiler specifications
8	Temporary	Temporary Data Set Allocations
9	Output	Output Data Set Allocations
10	Trace	Trace options
11	ISPF	ISPF settings

Enter

---

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The Set System Processing Options panel is displayed. Select option 1 Print. Press Enter.



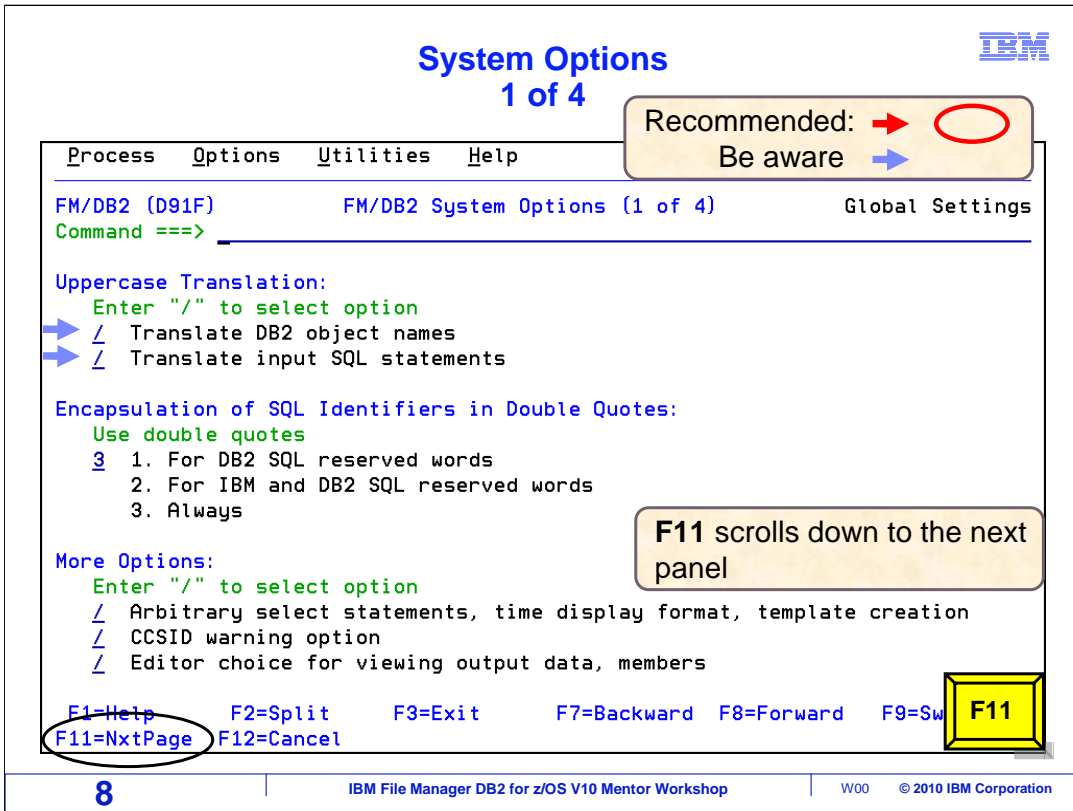
The “Set Print Processing Options” panel is displayed. Options with a red arrow have suggested values in red circles. Options shown with blue arrows are settings that you should consider, or at least be aware of.

It is strongly suggested that you change the “Print Options, Output destination”. The default setting may send the output of reports directly to your terminal. Select option 3, data set. This directs output to the file manager print data set. Anything done online that produces a report will write to the print data set. The name of the print data set is entered in the 'Data set name' field below. When a report is in the print data set, it can easily be viewed and then copied to sysout.

Consider changing the Data set DISP to OLD. The MOD setting will add new reports to the end of the print data set. Print disposition of “old” will clear the contents of the print data set every time a report is generated. The data set will only contain the last generated report.

The File Manager print data set is shown in the “Data set name” field. The value of the default data set will be filled in. Verify the naming pattern will follow your data set naming conventions. Modify the name if necessary.

Change the “Output class” setting to a valid, held sysout class on your system. If you are not sure what output classes are defined on your system, take a look at one of your job cards, and use the same SYSOUT class that is coded on your job card. If you do not have any JCL that you can refer to, ask a colleague. If you are still unsure, take a guess. It is better to guess than to leave it unchanged.



This is the File Manager DB2 System Options panel. There are enough system options that four panels are needed to show them all. The “Translate DB2 object names” option, if selected, object names entered on panels are converted to upper case. Select this if tables and other objects have all upper case names.

The “Translate input SQL statement” option, if on, will translate input SQL statements to upper case before they run. Press F11 to move to the next page of system options.



**System Options**  
2 of 4

Recommended: →   
 Be aware →

<u>P</u> rocess	<u>O</u> ptions	<u>U</u> tilities	<u>H</u> elp
-----------------	-----------------	-------------------	--------------

FM/DB2 (D91F)                      FM/DB2 System Options (2 of 4)                      Global Settings

Command ==>

**Arbitrary SQL Select Statements:**  
 Editor option  
 → 1 1. Browse                      ←  
           2. View  
           3. Edit

**External Format for TIME Data Type Columns:**  
 Display format  
 → 1 1. ISO (HH.MM.SS)  
           2. JIS (HH:MM:SS)  
           3. DB2 DSNHDECP setting

**Catalog Queries and Template Creation:**  
 Enter "/" to select option  
 / Use uncommitted read when accessing the DB2 catalog  
 - Retrieve foreign key information when building templates

F1=Help      F2=Split      F3=Exit      F7=Backward      F8=Forward      F9=Sw  
 F10=PrvPage      F11=NxtPage      F12=Cancel

F3

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Option “Arbitrary SQL select statements” controls how results of running SQL statements are displayed. Select 1 for browse, 2 for view, or 3 for edit.

Also be aware of “External format for time data type columns”. Set it to preferred time display. F3 to exit system options.

**Enter a valid job card**

Recommended:   
Be aware

Process Options Utilities Help

FM/DB2 (D91F) Set Batch Job Card Information

Command ==> \_\_\_\_\_

Batch Submission Job Statement Information:

```
//TSS13X JOB (ACCTG), 'IBM TOOLS WORKSHOP', REGION=4M, CLASS=A,
//          MSGCLASS=H, NOTIFY=&SYSUID, MSGLEVEL=(1,1)
```

This job card is used by all File Manager DB2 utilities that generate JCL. Provide a job card that is valid for your system. (Do not just copy this example)

F1=Help    F2=Split    F3=Exit    F4=CRetriev    F6=Reset    F7=Ba    **F3**

F8=Forward    F9=Swap    F10=Actions    F12=Cancel

---

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This is the “Batch Job Card Information” panel. This option is used by File Manager to generate JCL. Many utilities, like print and copy, can be run as batch jobs. File Manager will pull the job card information from this panel and insert it into the generated JCL. An easy way to do it is to cut and paste a job card from existing JCL. Provide a valid system job card, do not just copy this example. F3 to exit.

**IBM**

## Set Compiler Options

Recommended: → ○  
Be aware →

Process Options Utilities Help

FM/DB2 (D91F) Compiler Language Selection  
Command ==>

This is only used for Export /Import

Language Selection:  
Specify Default Compiler

- 1 1. COBOL Use the COBOL compiler
- 2. PL/I Use the PL/I compiler
- 3. Auto detect Determine which compiler to use
- 4. HLASM Use the HLASM compiler

Processing Options:  
Enter "/" to select option

- \_ Override compiler options for template update
- / Preserve copybook library

If you only use PL/I or COBOL copybooks, select 1 or 2  
If you use both, select 3

F3


F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Sw  
F12=Cancel

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The 'Compiler Language Selection' panel is displayed. These options are only used by the Import and Export utilities. It is possible, although not necessary, to use COBOL or PL/1 copybooks as record layouts for input or output files. For COBOL only, specify 1. For PL/1, specify 2. If both are being used, specify 3, and File Manager will automatically determine the compiler to use when the copybook is specified for the import or export utilities. F3 to exit.

## Specify Cobol Processing Options



Recommended: ➔    
 Be aware ➔

Process Options Utilities Help

FM/DB2 (D91F) Set COBOL Processing Options

Command ===> \_\_\_\_\_

This is only used for Export /Import

Additional SYSLIB data sets:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

COBOL Replacing Options:

From string		To string
1. ==;==	by ==	====
2. _____	by _____	_____
3. _____	by _____	_____

If COBOL copybooks COPY other copybooks (nested copybooks), then specify the copybook libraries here

If copybooks require the REPLACING option, specify from and to strings here  
This example removes the ";" from copybooks

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Sw F3

F12=Cancel


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The 'Set COBOL Processing options" panel is now displayed. These options are only used by the import and export utilities, when the layout of input or output files are done using COBOL copybooks. For copybooks that copy other copybooks, provide a list of one or more syslib data sets. Syslib data sets are the libraries where the COBOL compiler looks for copybooks. This is only needed for nested copybooks, which are copybooks that copy other copybooks.

This panel also allows for entry of copybook replacement values. Some copybooks are coded with special characters or tag strings that are intended to be replaced with some other string by the compiler. That happens in a COBOL program when a COPY REPLACING statement is used. In COBOL the syntax is coded so that both the from and to strings have two equal signs on each side. The values would be entered in the COBOL Replacing Options entry fields.

It is a common practice to have the special character "colon" as part of the tags that are intended to be replaced. This is sometimes done purposely by programmers to force compiler errors if the programmer forgets to code a COPY REPLACING. This example removes all colon characters from copybooks, to avoid compiler errors in those cases.

F3 to exit this panel.

**HLASM Processing Options** 

Recommended:    
Be aware 

Process Options Utilities Help

---

FM/DB2 (D91F) Set HLASM Processing Options  
Command ==> \_\_\_\_\_

This is only used for Export /Import

Additional SYSLIB data sets

1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. \_\_\_\_\_  
5. \_\_\_\_\_  
6. \_\_\_\_\_  
7. \_\_\_\_\_  
8. \_\_\_\_\_  
9. \_\_\_\_\_  
10. \_\_\_\_\_

Specify additional SYSLIB data sets here

HLASM Compiler Options:  
Enter "/" to select option  
\_ DBCS  
\_ NOALIGN

F1=Help    F2=Split    F3=Exit    F7=Backward    F8=Forward    F9=Sw  
F12=Cancel

F3

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This is the "HLASM processing options" panel. It is similar to the COBOL options panel. These options are only used by the import or export utilities. Specify additional SYSLIB data sets on this panel. Press F3 to exit this panel.

**IBM**

## PL/I Processing Options

Recommended: → ○  
Be aware →

Process Options Utilities Help

FM/DB2 (D91F) Set PL/I Processing Options  
Command ==>

This is only used for Export /Import

Additional SYSLIB data sets:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

Specify additional SYSLIB data sets here

PL/I Compiler Options for Copybooks:  
Enter "/" to select option

_ GRAPHIC	_ UNALIGNED
_ 63 bit binary	_ 31 digit decimal

F1=Help    F2=Split    F3=Exit    F7=Backward    F8=Forward    F9=Sw

F12=Cancel

F3

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This is the "PL/I processing options" panel. It is similar to the COBOL options panel. These options are only used by the import or export utilities, and only if using PL/I copybooks to lay out input or output files. For nested PL/I include members, or include members that %INCLUDE other include members, provide one or more syslib data sets. The PL/I compiler will search these data sets for included copybooks. F3 to exit this panel.

**IBM**

## ISPF Settings

Recommended: →     
 Be aware →

Log/List Function keys Colors Environ W

ISPF Settings

Command ==> \_\_\_\_\_

Options Print Graphics More: +

Enter "/" to select option

- Command line at bottom
- Panel display CUA mode
- Long message in pop-up
- Tab to action bar choices
- Tab to point-and-shoot fields
- Restore TEST/TRACE options
- Session Manager mode
- Jump from leader dots
- Edit PRINTDS Command
- Always show split line
- Enable EURO sign

Family printer type 2  
Device name . . . . .  
Aspect ratio . . . . 0

General

Input field pad . . B  
Command delimiter . ;

Member list options

Enter "/" to select option

- Scroll member list

F1=Help    F2=Split    F3=Exit    F7=Backward    F8=Forward    F9=Sw

F10=Actions    F12=Cancel

F8

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This is the ISPF settings panel. IBM recommends leaving the command line at the top of panels instead of the bottom. To set that option, leave the "Command line at bottom" option blank. It is also recommended that you turn off "Tab to action bar choices", and "Tab to point-and-shoot fields". If these are turned on, the tab key will move the cursor to menu selections at the very top of panels, which can be a hindrance. Scroll forward with F8.

**IBM**

## ISPF Settings

Recommended: →     
 Be aware →

Some 3270 emulators can be configured up to 43 lines or 132 columns. If you have a large terminal, these settings must also be set before you will see the expanded display

Log/List Function keys Colors Environ W

ISPF Settings

Command ==> \_\_\_\_\_

- ∟ Scroll member list
- Allow empty member list
- Allow empty member list (nomatch)
- ∟ Empty member list for edit only

Terminal Characteristics

→ Screen format 2 1. Data 2. Std

→ Terminal Type 4

1. 3277	2. 3277A	3. 3278	4. 3278A
5. 3290A	6. 3278T	7. 3278CF	8. 3277KN
9. 3278KN	10. 3278AR	11. 3278CY	12. 3278HN
13. 3278H0	14. 3278IS	15. 3278L2	16. BE163
17. BE190	18. 3278TH	19. 3278CU	20. DEU78
21. DEU78A	22. DEU78T	23. DEU90A	24. SW116
25. SW131	26. SW500	27. 3278GR	28. 3278L1
29. OTHER			

F1=Help    F2=Split    F3=Exit    F7=Backward    F8=Forward    F9=Sw  
 F10=Actions    F12=Cancel

F3

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For 3270 terminal emulators that have been configured to display extra lines and columns, use the “screen format” setting to allow expanded panel displays. The emulator settings must be configured to match before the expanded display is activated. F3 to exit.



## Select Edit options



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)          Set Processing Options
Command ==> 2_

0 System              System options
1 View               View options
2 Edit               Edit options
3 Utilities
 3.1 Print           Print utility options
 3.3 Copy            Copy utility options
 3.4 Object List     Object list utility options
 3.7 Export          Export utility options
 3.L Load            DB2 LOAD utility options
 3.UL LISTDEF        DB2 Utility LISTDEF options
 3.UO OPTIONS        DB2 Utility OPTIONS options
 3.UT TEMPLATE       DB2 Utility TEMPLATE options
 3.UU Unload         DB2 Unload utility options

F1=Help      F2=Split    F3=Exit     F7=Backward F8=Forward  F9=Sw
F12=Cancel

Enter
```

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There are many editor options. Select option 2 from the Set Processing Options panel to access these. Press Enter.

## Set default display format



Recommended: →    
Be aware →

Process Options Utilities Help

FM/DB2 (D91F) Editor Options (1 of 7) Global Settings

Command ==>

**Display Format:**  
Initial display format  
→ 1. Previous  
2. Table  
3. Single

**Editor CAPS Setting:**  
Enter "/" to select option  
\_ Initially ON

**Audit Option:**  
Option fixed at install time  
Create audit trail

**More Options:**  
Enter "/" to select option  
/ Optimization, large table and data sampling options  
/ Table/Single format, prefix area and shadow options  
/ Key, index and export options  
/ Varying length and nullable column options  
/ Enter key and commit processing options  
/ Concurrency and locking options

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Sw  
F11=NxtPage F12=Cancel

**F11**

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This is panel one of the “Editor Options”. There are many options. The “initial display” option controls how data is displayed when an edit or view session is started. This is a personal preference. It can be set to either 2 table or 3 single format, or a setting of 1, which means display the same format that was active the last time edit or view was active.

Use F11 to scroll to the next page of editor options.

## Editor Options page 2 – take defaults



Recommended: →    
Be aware →

Process Options Utilities Help

FM/DB2 (D91F) Editor Options (2 of 7) Global Settings

Command ==> \_\_\_\_\_

<p><b>Optimization Options:</b> Enter "/" to select option _ Use row count value  Optimize for . . . <u>0</u> Rows</p> <p><b>Data Sampling:</b> Sampling type <u>1</u> 1. None 2. Clustered sampling 3. Random sampling  Sampling limit . . <u>0</u></p>	<p><b>Large Table Options:</b> Scrollable cursor type <u>1</u> 1. Insensitive 2. Sensitive static</p> <p><b>Clustered Sampling:</b> Initial skip count <u>0</u> Include count . . . <u>1</u> Skip count . . . . <u>0</u></p> <p><b>Random Sampling:</b> Sampling frequency <u>0.01</u> Sampling seed . . . <u>0</u></p>
--	---

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Sw F11  
F10=PrvPage F11=NxtPage F12=Cancel

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Editor options page 2, take the defaults on this page. Press F11.

## Set prefix area selections



Recommended:   
Be aware

Process Options Utilities Help

FM/DB2 (D91F) Editor Options (3 of 7) Global Settings

Command ==>

Table Display Format:  
Enter "/" to select option  
/ Show data type  
/ Show scale line  
/ Show column number

Single Display Format:  
Enter "/" to select option  
- Show data type  
/ Show keys, indexes  
- Show column number  
- Left justify numerics

Prefix Area:  
Prefix length . . . (A,6,7,8,9)  
Enter "/" to select option  
/ Display prefix area  
/ Show prefix area on the right  
/ Show SQLCODE

Shadow   
Enter   
/ Sh

This setting is what will display the SQL code errors in the prefix error

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Sw   
F10=PrvPage F11=NxtPage F12=Cancel

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IBM recommends displaying the prefix area, and NOT showing the prefix area on the right. Selecting "Show SQLCODE" is suggested. With this on, if there is a save error when you try to save your changes, the non-zero SQL code is displayed in the prefix area.

In this example, the "Display prefix area" and "Show SQLCODE" options were selected by entering a slash in the input area. The "Show prefix area on the right" field was blanked out, to not select this option. Press F11 to scroll to the next page.

## Key and Index values, take the defaults



Recommended: →    
Be aware →

Process Options Utilities Help

FM/DB2 (D91F) Editor Options (4 of 7) Global Settings

Command ==> \_\_\_\_\_

Primary and Foreign Keys, Indexes:  
Enter "/" to select option  
/ Allow updates to primary key  
/ Show primary key  
/ Show foreign key  
/ Show index indicators

Export Command:  
Enter "/" to select option  
\_ Show export options

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Sw F11  
F10=PrvPage F11=NxtPage F12=Cancel

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Editor options page 4, key and index values, take the system defaults. Press F11 to scroll to the next page.

## String delimiters and null column indicators



Recommended: →    
Be aware →

Process Options Utilities Help

FM/DB2 (D91F) Editor Options (5 of 7) Global Settings

Command ==>

---

Varying Length Columns:  
Enter "/" to select option  
/ Remove trailing spaces  
/ Show end of string

String Delimiters:  
→ Input . . . . . #  
→ Display . . . . . <

Columns that allow Null Values:  
Enter "/" to select option  
\_ Convert spaces to DB2 null

Null Column Indicators:  
→ Input . . . . . @  
Display . . . . . -

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Sw F11  
F10=PrvPage F11=NxtPage F12=Cancel

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Editor options page 5, string delimiters and null column indicators. String delimiters for input and display are set on this panel. They can be modified. The “End of string delimiter” settings let you select the character that marks the end of varying length strings. Most people use the defaults. The “Null column indicator” settings are similar. They show the character that marks a null column. Press F11 to scroll to the next page.

## Set key processing and commit options



**Recommended:** →    
**Be aware** →

Process   Options   Utilities   Help

FM/DB2 (D91F)                      Editor Options (6 of 7)                      Global Settings

Command ==>>> \_\_\_\_\_

**Enter Key Processing:**

Enter key usage

→ 1 1. No action

          2. Save data

          3. Save data and commit changes

**Commit Options:**

Enter "/" to select option

→ / Commit when save issued

          Commit when no save errors

**F11**

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The “Commit changes when no save errors” option affects what happens when you exit from the editor or use a save command. With this option on, File Manager issues a commit only if there were no errors saving data. Save errors can be caused by things like duplicate keys in your data.

When the option is off, File Manager issues a commit even if there were some save errors, meaning that it will commit the changes that it can. Either way, if you have save errors, you will remain in the editor and you will have a chance to fix the problems. In this example, the “Enter key usage” default value of 1 is entered, and “Commit Options, Commit when no save errors” has been selected with a slash. Press F11 to scroll to the next panel.

## Editor options – take defaults



Recommended: →    
Be aware →

Process Options Utilities Help

FM/DB2 (D91F) Editor Options (7 of 7) Global Settings

Command ==>

**Concurrency Options:**  
Enter "/" to select option  
\_ Read-only access  
/ Commit after data fetch  
\_ Skip locked rows

**Edit Locking Option:**  
Locking  
1 1. None  
2. Share mode  
3. Exclusive mode

**SQL Cursor Concurrency Options:**  
Concurrency  
1 0. Uncommitted read  
1. No with clause  
2. Cursor stability  
3. Read stability  
4. Read stability keep locks  
5. Repeatable read  
6. Repeatable read keep locks

**Keep locks option**  
1 1. Use/Keep share locks  
2. Use/Keep update locks  
3. Use/Keep exclusive locks

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Sw  
F10=PrvPage F12=Cancel

**F3**

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There are options here to control how File Manager performs locking when you use edit or browse. It is typical to take the default values, and it is a good idea to consult with your DBA before you change these, especially if you are not familiar with how DB2 performs locking. Press F3 to exit the editor options.



## Select 3.3 Copy utility options



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                Set Processing Options
Command ==> 3.3

0 System                      System options
1 View                        View options
2 Edit                        Edit options
3 Utilities
  3.1 Print                   Print utility options
  3.3 Copy                    Copy utility options
  3.4 Object List             Object list utility options
  3.7 Export                  Export utility options
  3.L Load                    DB2 LOAD utility options
  3.UL LISTDEF                DB2 Utility LISTDEF options
  3.U0 OPTIONS                DB2 Utility OPTIONS options
  3.UT TEMPLATE               DB2 Utility TEMPLATE options
  3.UU Unload                 DB2 Unload utility options

F1=Help    F2=Split    F3=Exit    F7=Backward  F8=Forward  F9=Sw
F12=Cancel

Enter
```

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From the Set Processing Options panel, specify 3.3 copy utility options. Press Enter.

**Copy utility options**

Recommended:   
Be aware

Process Options Utilities Help

FM/DB2 (D91F) Copy Options Global Settings

Command ==>

**From Table Concurrency Option:**  
Enter "/" to select option  
/ Use uncommitted read

**Copy Options:**  
Duplicate key processing  
1 1. Ignore  
2 2. Update  
For ALL duplicates

**To Table Locking Option:**  
Locking  
1 1. None  
2 2. Share mode  
3 3. Exclusive

Enter "/" to select option  
/ Delete existing rows  
/ Ignore referential integrity errors  
Create audit trail (Option fixed)

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Sw **F3**  
F12=Cancel

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This is the Copy Options panel. It affects what happens when the Copy utility is used to copy data from one table to another. Notice the “Duplicate key processing” option. If the output table already contains rows, it controls what happens when there are duplicate key values in input rows. “Ignore” means that rows with duplicate keys are ignored and not copied. Update is the opposite, and File Manager will attempt to update the output table with the information from the input row.

Be careful with the “Delete existing rows” option. When this is on, all of the rows in the output table are deleted before the input rows are copied. This can be useful, but make sure this is the desired action before turning it on. “Ignore referential integrity errors” allows copying the rows that do not have RI errors, but the rows that do have RI errors are not copied. If this option is set to off, then the Copy utility fails if it encounters an RI error. If the “Create audit trail” setting is turned on, File Manager automatically creates a new audit log file every time a copy is performed. If there are no plans to print reports from audit logs, then turn this option off. F3 to exit.

- **FM panels are designed to display underscores**
  - **Your panels should look like this:**

```

FM/DB2 (DSNA) _                               Row Selection Criteria                               Line 1 of 14
Command ==>>> _                               Scroll CSR
Cmd Con ( Column name                           Op Value )
<-> - <-----1-----2-----3-----> <-> <-----1-----2----->
*** **** Top of data ****
____ AND - EMPNO
____ AND - FIRSTNME
____ AND - MIDINIT
____ AND - LASTNAME
____ AND - WORKDEPT
    
```

- **Not like this:**

```

FM/DB2 (DSNA) _                               Row Selection Criteria                               Line 1 of 14
Command ==>>> _                               Scroll CSR
Cmd Con ( Column name                           Op Value )
<-> - <-----1-----2-----3-----> <-> <-----1-----2----->
*** **** Top of data ****
█ AND EMPNO
  AND FIRSTNME
  AND MIDINIT
  AND LASTNAME
  AND WORKDEPT
    
```

- This is controlled by an ISPF setting called CUAATTR

There are many File Manager options, but the ones that have been reviewed so far are the most used.

File Manager panels are designed so that underscores should be displayed in the data entry fields. This makes the entry areas much easier to identify. The display at the top shows the display with the underscores turned on. If underscores are not being displayed, an ISPF setting can be used to turn them on.

## Issue ISPF command CUAATTR



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)          Primary Option Menu
Command ==> cuattr
-----
0 Settings      Set processing options      User ID . . : TSS13
1 View         View DB2 object            System ID  : STLABF6
2 Edit         Edit DB2 object            Appl ID   : FMN2
3 Utilities    Perform utility functions   Version   : 10.1.0
4 SQL         Prototype, execute and analyze SQL Terminal  : 3278A
5 DB2I        Start DB2 Interactive       Screen   : 1
6 Command     Enter and execute a DB2 Command Date     . . : 2010/03/24
X Exit        Terminate FM/DB2           Time     . . : 03:09

                                DB2 SSID . . D91F
                                SQL ID   . . TSS13 +

F1=Help      F2=Split      F3=Exit      F4=Expand      F7=Backward  F8=Forward
F9=Swap      F10=Left     F11=Right   F12=Cancel

Enter
```

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To turn on the underscores, use the ISPF command: CUAATTR. Enter CUAATTR on the command line and press Enter.

# Verify Choice Entry Field is USCORE



Recommended: → ○  
Be aware →

ISPF Settings  
CUA Attribute Change Utility

Command ==> \_\_\_\_\_ Defaults

Change colors, intensities, or highlights for panel attribute elements. Enter the EXIT command to save changes or enter the CANCEL command to exit without saving. To restore the defaults for a type, clear the field and press Enter or select the Defaults point-and-shoot field to restore all default settings for all types.

Panel Element	Color	Intensity	Highlight
AB Selected Choice . . . . .	YELLOW	LOW	NONE
AB Separator Line . . . . .	BLUE	LOW	NONE
AB Unselected Choice . . . . .	WHITE	HIGH	NONE
Action Message Text . . . . .	RED	HIGH	NONE
Active Window Frame . . . . .	YELLOW	HIGH	
Caution Text . . . . .	YELLOW	HIGH	NONE
Choice Entry Field . . . . .	TURQ	LOW	USCORE
Column Heading . . . . .	BLUE	HIGH	NONE
Descriptive Text . . . . .	GREEN	LOW	NONE

F1=Help      F2=Split      F3=Exit      F7=Backward      F8=Forward  
F9=Swap      F12=Cancel

F8

The “CUA attributes change utility” panel has settings that control how ISPF panels are displayed. There are three settings that are important for File Manager. First, on the “Choice Entry Field” line, type USCORE in the highlight field. Then scroll down with the F8 key.

# Verify List and Normal Entry Fields = USCORE



ISPF Settings  
CUA Attribute Change Utility

Command ==> \_\_\_\_\_ Defaults

Change colors, intensities, or highlights for panel attribute elements. Enter the EXIT command to save changes or enter the CANCEL command to exit without saving. To restore the defaults for a type, clear the field and press Enter or select the Defaults point-and-shoot field to restore all default settings for all types.

Panel Element	Color	Intensity	Highlight	More: - +
List Entry Field . . . . .	TURQ	LOW	USCORE	
List Item Description . . . . .	GREEN	LOW	NONE	
List Items . . . . .	WHITE	LOW	NONE	
Normal Entry Field . . . . .	TURQ	LOW	USCORE	
Normal Text . . . . .	GREEN	LOW	NONE	
Panel ID . . . . .	BLUE	LOW	NONE	
Panel Instruction . . . . .	GREEN	LOW	NONE	
Panel Title . . . . .	BLUE	LOW	NONE	
Point-and-Shoot . . . . .	TURQ	HIGH	NONE	

F1=Help      F2=Split      F3=Exit      F7=Backward      F8=Forward  
F9=Swap      F12=Cancel

**F3**

Recommended: → ○  
Be aware →

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Make the same changes to the “List Entry Field” and “Normal Entry Field” lines. Type “USCORE” into the Highlight field. Press F3 to save the changes. If this setting is changed while on a panel with underscores, the panel will have to be exited to get the updated settings. F3 to exit the CUAATTR panel.

## Options – save your updates



■ File Manager stores your option settings in your permanent ISPF profile data set when you exit File Manager

- If you have made changes that you want to save, exit File Manager DB2
- If TSO times out before you exit, your settings will not be saved

```
FM/DB2 (D91F)                Primary Option Menu
Command ==> _____
0 Settings      Set processing options      User ID . . : TSS13
1 View         View DB2 object             System ID  : STLABF6
2 Edit         Edit DB2 object             Appl ID   : FMN2
3 Utilities    Perform utility functions   Version   : 10.1.0
4 SQL          Prototype, execute and analyze SQL Terminal  : 3278A
5 DB2I        Start DB2 Interactive       Screen   . : 1
6 Command     Enter and execute a DB2 Command Date . . : 2010/03/26
X Exit        Terminate FM/DB2            Time . . : 22:39

                                DB2 SSID . D91F
                                SQL ID  . . TSS13
```



File Manager stores the options settings in the TSO profile data set when File Manager is exited. If changes have been made to any settings, save them by going back to the File Manager main menu, then press F3 to exit. When File Manager is exited, the changes will be written to the ISPF profile data set. If the TSO session times out, the changes to the File Manager settings will not be lost. F3 to exit.

This ends the section on understanding your File Manager DB2 options settings.

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