



This is the tutorial for the base feature of IBM File Manager for z/OS®, one of the IBM zSeries® Problem Determination tools.

- **How to view or edit using an unformatted display**

- How to view or edit a VSAM data set
- How to view or edit a QSAM (sequential) data set
- How to view or edit a PDS (library) data set

- **How to view or edit using a formatted display**

- How to view or edit a VSAM data set
- How to view or edit a QSAM (sequential) data set

- **How to change the way data is displayed**

- How to change the format displayed
- How to change the location displayed

In this section, you will learn how to edit or view a VSAM data set using a formatted display.

## Use a copybook or template to format the display



- A copybook will be used in the next example
- A COBOL or PL/I copybook, or an assembler DSECT can be used

```

EDIT      TSS12.ADLAB.COPYLIB(CUST1) - 01.00
Command ==> █
=COLS> ---1---+---2---+---3---+---4---+---5---+
***** ***** Top of Data *****
000100 *
000200 * Sample COBOL Copybook for IBM PD Tools Workshops
000300 * Describes file <userid>.ADLAB.CUST1
000400 *
000500 01 CUST-REC.
000600 05 CUSTOMER-KEY.
000700 10 CUST-ID PIC X(5).
000800 05 NAME PIC X(17).
000900 05 ACCT-BALANCE PIC S9(7)V99 COMP-3.
001000 05 ORDERS_YTD PIC S9(4) COMP
    
```

```

EDIT      TSS12.ADLAB.COPYLIB(PLCU1) - 01.00 Columns 000
Command ==> █ Scroll =
=COLS> ---+---1---+---2---+---3---+---4---+---5---+---6---
***** ***** Top of Data *****
000001 /* ----- */
000002 /* SAMPLE PLI COPYBOOK FOR IBM PD TOOLS WORKSHOPS */
000003 /* DESCRIBES FILE <USERID>.ADLAB.CUST1 */
000004 /* ----- */
000005 DCL 1 CUST_REC,
000006 2 CUSTOMER_KEY,
000007 3 CUST_ID CHAR(5),
000008 2 NAME CHAR(17),
000009 2 ACCT_BALANCE FIXED DEC(9,2) UNALIGNED,
000010 2 ORDERS_YTD FIXED BINARY(15,0) SIGNED UNALIGNED,
    
```

```

EDIT      TSS12.ADLAB.COPYLIB(ASCU1)
Command ==> █
=COLS> ---+---1---+---2---+---3---+
***** *****
000001 *
000002 * SAMPLE ASSEMBLER DSECT FOR
000003 * DESCRIBES FILE <USERID>.ADLAB.CUST1
000004 *
000005 CUST_REC DSECT
000006 CUST_ID DS CL5
000007 NAME DS CL17
000008 ACCT_BAL DS 5D
000009 ORDS_YTD DS 4H
    
```

3

IBM File Manager for z/OS Base Feature for z/OS V10 tutorial

© 2010 IBM Corporation

This is the copybook that will be used. File Manager can use either COBOL or PL/I copybooks or even an Assembler DSECT that you have. By using a copybook or assembler DSECT, the records are broken down into their individual fields.

## Option 1 displays the view entry panel



```
Process  Options  Help
-----
File Manager          Primary Option Menu
Command ==> 1 █

0 Settings      Set processing options      User ID . : TSS12
1 View          View data                    System ID : STLABF6
2 Edit          Edit data                    Appl ID  . : FMN
3 Utilities     Perform utility functions    Version . : 10.1.0
4 Tapes        Tape specific functions      Terminal. : 3278A
5 Disk/VSAM    Disk track and VSAM CI functions  Screen.  . : 1
6 OAM          Work with OAM objects        Date.    . : 2010/05/19
7 Templates    Template and copybook utilities  Time.    . : 03:15
8 HFS          Access Hierarchical File System
9 WebSphere MQ List, view and edit MQ data
X Exit         Terminate File Manager

F1=Help      F2=Split      F3=Exit      F4=CRetrieve  F7=Backward  F8
F9=Swap      F10=Actions   F12=Cancel

Enter
```

4 | IBM File Manager for z/OS Base Feature for z/OS V10 tutorial | © 2010 IBM Corporation

From the File Manager main menu, Option 1 is View. Type 1 on the command line, and press Enter.

## The view entry panel is displayed



```

  Process  Options  Help
-----
File Manager
Command ==> _____
Data Set, or HFS file:
  Data set/path name ADLAB.CUST1.KSDS +
  Member . . . . . (Blank or pattern for member list)
  Volume serial . . . . . (If not cataloged)
  Start position . . . . . +
  Record limit . . . . . Record sampling _

Copybook or Template:
  Data set name . . . . .
  Member . . . . . (Blank or pattern for member list)

Processing Options:
Copybook/template Start position type Enter "/" to select option
 3 1. Above - 1. Key - Edit template _ Type (1,2,S)
  2. Previous - 2. RBA - Include only selected records
  3. None - 3. Record number - Binary mode, reclen 80
  4. Create dynamic

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

```

**Enter**

5

IBM File Manager for z/OS Base Feature for z/OS V10 tutorial

© 2010 IBM Corporation

Start by pulling down the Process menu. Put the cursor on the word "Process" at the top of the screen, and press Enter.

## The view entry panel is displayed



```
Process  Options  Help
-----
 1 1. Current Data Set List REFLIST
 2 2. Personal Data Set Lists
 3 3. Exit

Volume serial . . . (If not cataloged)
Start position . . .
Record limit . . . Record sampling

Copybook or Template:
Data set name . . .
Member . . . . . (Blank or pattern for member list)

Processing Options:
Copybook/template  Start position type  Enter "/" to select option
3 1. Above          1. Key          Edit template   Type (1,2,S)
 2. Previous        2. RBA          Include only selected records
 3. None             3. Record number  Binary mode, reclen 80
 4. Create dynamic

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

Enter
```

6 | IBM File Manager for z/OS Base Feature for z/OS V10 tutorial | © 2010 IBM Corporation

The process menu is displayed. Type 1 for the “Current data set list” selection. Although the details are not given here, just so you know, you can create and manage your own personal data set lists, so you can quickly get to your favorite files. Now press Enter.

## The view entry panel is displayed



```
Process  Options  Help
-----
File Manager          Personal Data Set List
Command ==> _____

Enter a list action or select a data set entry to retrieve
Action: S=Save  A=Save As  D=Delete this list  E=Extended Edit  N=New list
Action  Name      Description              Created      Referenced
-      REFLIST    Last 30 referenced data sets  09/11/11    10/05/20 10:11
                                           More:      +
Select Partitioned, Sequential, VSAM Data Set, or HFS file  Member  Volume
/ Copybook or Template
ADLAB.CUST1.KSDS _____
ADLAB.COPYLIB _____ CUST1
. PROD.CUST1 _____
ADLAB.COPYLIB _____ CUST1
. 'TSS12.ADLAB.CUST1.COPY.CUST1000' _____
ADLAB.COPYLIB _____ CUST1
. ADLAB.CUST1.COPY.CUST1000 _____

F1=Help  F2=Split  F3=Exit  F4=Expand  F7=Backward  F8=
F9=Swap  F10=Actions  F12=Cancel  Enter
```

That displays the Personal Data Set List panel, or REFLIST. It shows the last thirty files that you used in File Manager. Notice that in addition to the name of the file, it also shows the copybook or template that was used to format the display.

Position your cursor on the dot to the left of the data set name you want to use and press enter.

## The view entry panel is displayed



```
Process  Options  Help
-----
File Manager          View Entry Panel          List entry retrieved
Command ==> _____

Input Partitioned, Sequential or VSAM Data Set, or HFS file:
Data set/path name ADLAB.CUST1.KSDS +
Member . . . . . (Blank or pattern for member list)
Volume serial . . . . . (If not cataloged)
Start position . . . . . +
Record limit . . . . . Record sampling _

Copybook or Template:
Data set name ADLAB.COPYLIB
Member CUST1 (Blank or pattern for member list)

Processing Options:
Copybook/Template Start position type Enter "/" to select option
1 1. Above - 1. Key - Edit template _ Type (1,2,S)
2. Previous 2. RBA - Include only selected records
3. None 3. Record number - Binary mode, reclen 80
4. Create dynamic

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

Now, on the View Entry panel, the file name and copybook and member names were automatically filled in with your selection. Notice the processing option was also changed from 3 to 1.

Press enter.



## Use the Find command



```
View TSS12.ADLAB.CUST1.KSDS
Command ==> f anna #4 [Enter] Chars 'anna' found
Key _____ Type KSDS RBA _____ Format TABL
CUST-ID NAME ACCT-BALANCE ORDERS-YTD ADDR
#3 #4 #5 #6 #7
AN 1:5 AN 8:17 PD 23:5 BI 28:2 AN 30:20
<---> <---+---1---> <---+---1> <---> <---+---1--->
***** **** Top of data ****
000001 01001 Lynn, Amanda 9 119 North Lake Road
000002 02200 Graham, Anna 10 89 Clay Springs Rd
000003 02202 Major, Art 5 1512 Pine Bluff
000004 03003 Prentice, Anna 7 33 Renshaw
000005 03390 Deeds, Darren 0.00 3 649 Brown Street
000006 05570 Parker, Ford 233.27 12 3039 Manning St.
000007 06101 Early, Brighton 311.08 10 9662 Summit Road
000008 06106 Lander, Annette 489.84 7 6127 Cedar Street
000009 06711 Dubree, Dustin 192.98 11 9229 Delegate's Row
000010 06900 Bacon, Chris P. 1001.01 0 1134 Rosetta
000011 07008 Houston, Roger 296.97 10 4411 Northside Pkway
000012 07044 Schauer, April 88.83 7 7331 Gulf Shore Dr.
F1=Help F2=Zoom F3=Exit F4=CRetriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel
```

Note: #4 is an alias for the NAME field.

You can also use field reference numbers with your FIND commands. On the command line, Type F anna #4 and press enter.

The search is limited to data in field reference number 4, which is the NAME field.

## Find ann prefix



View
TSS12.ADLAB.CUST1.KSDS

Command ==> f ann pre
Enter
Chars 'ann' found

Key
Type
KSDS
RBA
Format
TABL

CUST-ID	NAME	ACCT-BALANCE	ORDERS-YTD	ADDR
#3	#4	#5	#6	#7
AN 1:5	AN 6:17	PD 23:5	BI 28:2	AN 30:20
<--->	<---+---1---+>	<---+---1>	<---+>	<---+---1---+>
***** **** Top of data ****				
000001	01001 Lynn, Amanda	610.05		
000002	02200 Graham, Anna	67.68		
000003	02202 Major, Art	1234.56		
000004	03003 Prentice, Anna	0.00		
000005	03390 Deeds, Darren	74.00		
000006	05570 Parker, Ford	233.27		
000007	06101 Early, Brighton	311.08		
000008	06106 Lander, Annette	489.84		7 6127 Cedar Street
000009	06711 Dubree, Dustin	192.98		11 9229 Delegate's Row
000010	06900 Bacon, Chris P.	1001.01		0 1134 Rosetta
000011	07008 Houston, Roger	296.97		10 4411 Northside Pkway
000012	07044 Schauer, April	88.83		7 7331 Gulf Shore Dr.

F1=Help    F2=Zoom    F3=Exit    F4=CRetrieve    F5=RFind    F6=RChange  
 F7=Up      F8=Down    F9=Swap    F10=Left      F11=Right   F12=Cancel

Note: Ann was found at the beginning of a string

Note: The / is the same as the Find command

10
IBM File Manager for z/OS Base Feature for z/OS V10 tutorial
© 2010 IBM Corporation

You should find the next three examples, that are covered, quite interesting...

The prefix parameter searches the beginning of the string. You can abbreviate it with pre.

## Find ann suffix



View
TSS12.ADLAB.CUST1.KSDS

Command ==> **f ann suf** Enter
Chars 'ann' found

Key	07077	Type	KSDS	RBA	3972	Format	TABL
	CUST-ID	NAME	ACCT-BALANCE	ORDERS-YTD	ADDR		
	#3	#4	#5	#6	#7		
	AN 1:5	AN 6:17	PD 23:5	BI 28:2	AN 30:20		
	<--->	<---+---1---+>	<---+---1>	<---+>	<---+---1---+--->		
000013	07077	Mann, Mr. E.	621.05		1 24 Valentine Rd		
000014	07707	Clime, Hilda			9 5545 Crystal Springs		
000015	07870	Furst, April			1 955 Dundas		
000016	07880	Marx, Audrey			2 90 South Cascade		
000017	08085	Moore, Adeline	498.95		3 4700 S. Syracuse		
000018	10207	Auerbach, Hans	11.11		0 Hahnstrasse 46		
000019	10290	Well, Alice	731.26		4 125 Nicholson Rd		
000020	10504	Graf, Polly	244.42		1 1551 Colt Road		
000021	11004	Ness, Luke	*****		3 5166 Sprinkle Road		
000022	13002	Turner, Paige	234.00		4 3039 Lost Creek Rd		
000023	13003	Sawyer, Dinah	622.16		4 498 Oak Grove Rd		
000024	20307	Lapp, Victor E.	377.74		2 Rua Tutoia 2258		
000025	20620	Parris, April Lynn	555.50		3 Calzada Legaria #853		

F1=Help	F2=Zoom	F3=Exit	F4=CRetrieve	F5=RFind	F6=RChange
F7=Up	F8=Down	F9=Swap	F10=Left	F11=Right	F12=Cancel

**11**
IBM File Manager for z/OS Base Feature for z/OS V10 tutorial
© 2010 IBM Corporation

Note: Ann was found at the end of a string

The suffix parameter searches the end of the string. You can abbreviate it with suf.

# Find ann word



View TSS12.ADLAB.CUST1.KSDS

Command ==> f ann word [Enter]

Chars 'ann' found

Key	88840	Type	KSDS	RBA	30741	Format	TABL
CUST-ID	NAME	ACCT-BALANCE	ORDERS-YTD	ADDR			
#3	#4	#5	#6	#7			
AN 1:5	AN 6:17	PD 23:5	BI 28:2	AN 30:20			
<--->	<---+---1---+>	<---+---1>	<---+>	<---+---1---+>			
000093	88840	Teek, Ann	799.94	9 499 Grayson Road			
000094	90030	Melon, Walter	221.86	5 650 Bathurst Street			
000095	90808	Krakauer, Graham	355.52	2 1040 N Main St			
000096	91009	Mitterand, Lefty	488.84	3 901 S Hickory St			
000097	97007	Hoyt, Kent	*****	2 1760 Ponderay			
000098	98080	Culligan, Willie	2200.33	1 99 Cannonwood			
000099	99008	Archer, Beau	356.52	11 1889 Wright Road			
000100	99900	Annette, Claire	643.07	10 339 Darcy Road			
*****	****	End of data	****				

Note: F \ Ann ' produces similar results

F1=Help F2=Zoom F3=Exit F4=CRetriev F5=RFind F6=Find F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Ca

F3 F3

12 IBM File Manager for z/OS Base Feature for z/OS V10 tutorial © 2010 IBM Corporation

The word parameter searches for a stand alone string. There is no abbreviation for the word parameter.

Press F3 twice to return to the primary menu.

## Option 2 displays the edit entry panel



```
Process  Options  Help
-----
File Manager          Primary Option Menu
Command ==> 2
-----
0 Settings      Set processing options      User ID . : TSS12
1 View          View data                    System ID : STLABF6
2 Edit          Edit data                    Appl ID  . : FMN
3 Utilities     Perform utility functions    Version . : 10.1.0
4 Tapes        Tape specific functions      Terminal. : 3278A
5 Disk/VSAM     Disk track and VSAM CI functions
6 OAM           Work with OAM objects        Screen.  . : 1
7 Templates     Template and copybook utilities
8 HFS           Access Hierarchical File System
9 WebSphere MQ  List, view and edit MQ data  Date.   . : 2010/05/18
X Exit          Terminate File Manager       Time.   . : 04:23

F1=Help      F2=Split      F3=Exit      F4=CRetrieve  F7=Backward  F8
F9=Swap      F10=Actions   F12=Cancel

Enter
```

13 | IBM File Manager for z/OS Base Feature for z/OS V10 tutorial | © 2010 IBM Corporation

From the File Manager main menu, Option 2 is Edit. Type 2 on the command line, and press Enter.

# The edit entry panel is displayed



```
Process  Options  Help
-----
File Manager                      Edit Entry Panel
Command ==> █

Input Partitioned, Sequential or VSAM Data Set, or HFS file:
Data set/path name ADLAB.CUST1.KSDS +
Member . . . . . (Blank or pattern for member list)
Volume serial . . . . . (If not cataloged)
Start position . . . . . +
Record limit . . . . . Record sampling _
Inplace edit . . . . . (Prevent inserts and deletes)
Copybook or Template:
Data set name . . . ADLAB.COPYLIB
Member . . . . . CUST1 (Blank or pattern for member list)
Processing Options:
Copybook/template Start position type Enter "/" to select option
 1 1. Above - 1. Key - Edit template _ Type (1,2,S)
 2 2. Previous - 2. RBA - Include only selected records
 3 3. None - 3. Record number - Binary mode, reclen 80
 4 4. Create dynamic - - Create audit trail

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

The edit entry panel is displayed. Note that the input data set, copybook library, member name, and processing option specified were updated with the same information that was retrieved on the view pane. Press Enter.

## Use the Change command



```

Edit                                     TSS12 ADI AB.CUST1 KSDS
Command ==> c anna Anne #4 [Enter]      1/1 changed
                                         Scroll PAGE
                                         Format TABL
Key _____ Type KSDS   RBA _____
CUST-ID NAME _____ ACCT-BALANCE ORDERS-YTD ADDR
#3 #4 _____ #5 #6 #7
AN 1:5 AN 0:17 PD 23:5 BI 28:2 AN 30:20
<---> <---+---1---+> <---+---1> <---> <---+---1---+>
***** **** Top of data ****
000001 01001 Lynn, Amanda 67.68 9 219 North Lake Road
000002 02200 Graham, Anne 610.05 10 89 Clay Springs Rd
000003 02202 Major, Art 1234.56 5 1512 Pine Bluff
000004 03003 Prentice, Anna 0.00 7 33 Renshaw
000005 03390 Deeds, Darren 74.00 3 649 Brown Street
000006 05570 Parker, Ford 233.27 12 3039 Manning St.
000007 06101 Early, Brighton 311.08 10 9662 Summit Road
000008 06106 Lander, Annette 489.84 7 6127 Cedar Street
000009 06711 Dubree, Dustin 192.98 11 9229 Delegate's Row
000010 06900 Bacon, Chris P. 1001.01 0 1134 Rosetta
000011 07008 Houston, Roger 296.97 10 4411 Northside Pkway
000012 07044 Schauer, April 88.83 7 7331 Gulf Shore Dr
F1=Help F2=Zoom F3=Exit F4=CRetrie F5=RFind F6=RO
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Ca

```

15 IBM File Manager for z/OS Base Feature for z/OS V10 tutorial © 2010 IBM Corporation

You can also use field reference numbers with CHANGE commands. In this example anna is being changed to Anne, but only in column reference number 4, which is the name field. The message that 1 change was made is displayed above the command line.

Press F3.

## The changes were saved



```
Process  Options  Help
-----  -
File Manager          Edit Entry Panel          1 record(s) updated
Command ==> █

Input Partitioned, Sequential or VSAM Data Set, or HFS file:
Data set/path name ADLAB.CUST1.KSDS +
Member . . . . . (Blank or pattern for member list)
Volume serial . . . . . (If not cataloged)
Start position . . . . . +
Record limit . . . . . Record sampling _
Inplace edit . . . . . (Prevent inserts and deletes)
Copybook or Template:
Data set name . . ADLAB.COPYLIB
Member . . . . . CUST1 (Blank or pattern for member list)
Processing Options:
Copybook/template Start position type Enter "/" to select option
 1 1. Above - 1. Key - Edit template _ Type (1,2,S)
 2 2. Previous - 2. RBA - Include only selected records
 3 3. None - 3. Record number - Binary mode, reclen 80
 4 4. Create dynamic - Create audit trail

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

The edit entry panel is displayed with a message, above the command line, that 1 record was updated.

Press F3 to end the session.

That is the end of this section, which described how to view or edit a VSAM data set using a formatted display.



## Feedback



Your feedback is valuable

You can help improve the quality of IBM Education Assistant content to better meet your needs by providing feedback.

- Did you find this module useful?
- Did it help you solve a problem or answer a question?
- Do you have suggestions for improvements?

Click to send email feedback:

[mailto:iea@us.ibm.com?subject=Feedback\\_about\\_FMBv10s05FormattedVSAM.ppt](mailto:iea@us.ibm.com?subject=Feedback_about_FMBv10s05FormattedVSAM.ppt)

This module is also available in PDF format at: [../FMBv10s05FormattedVSAM.pdf](..../FMBv10s05FormattedVSAM.pdf)

You can help improve the quality of IBM Education Assistant content by providing feedback.



## Trademarks, copyrights, and disclaimers

IBM, the IBM logo, ibm.com, z/OS, and zSeries are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at "[Copyright and trademark information](http://www.ibm.com/legal/copytrade.shtml)" at <http://www.ibm.com/legal/copytrade.shtml>

THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.

© Copyright International Business Machines Corporation 2010. All rights reserved.