



Lab 17314

IBM PD Tools Hands-On Lab: Dive into Increased Programmer Productivity

# **IBM File Manager for z/OS**

**Eclipse interface** 

Hands-on Lab Exercises

IBM File Manager for z/OS V13

Lab Exercises

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### Overview

#### File Manager

File Manager is a single toolset you use to work with a broad spectrum of z/OS files and data bases, including VSAM, IAM, and QSAM files, PDSes and libraries, DB2 and IMS databases, HFS files, OAM files, CICS queues, Websphere MQ queues, and tapes.

File Manager provides powerful formatted editors and viewers, and also provides a full complement of on-line and batch utilities to copy, extract, and load data, to create files and data bases, compare and print, and many other utility functions.

File Manager has a conventional 3270 interface that can be accessed from TSO or CICS. There is also an eclipse GUI interface that is available in the PD Tools Studio, and will also run in RDz, z/OS Explorer and CICS Explorer.

#### This workbook

This workbook contains instructions for lab exercises that are designed to give you hands-on experience for the eclipse interface of IBM File Manager for z/OS.

#### Reference

Product manuals and other information about IBM File Manager for z/OS, and the other IBM problem determination tools, are available on the Web at URL:

http://www.ibm.com/software/awdtools/deployment

# Lab Exercise 1 Getting started with the File Manager perspective

In this exercise you will:

- Open the File Manager perspective in the Eclipse workbench.
- Learn how to display help information for File Manager.
- 1. Before you begin, you must have the Eclipse interface open on your workstation. If you aren't sure how to open it, please ask.

In eclipse, a perspective is a set of views (windows), menus, and options that provide a set of functions. The File Manager interface is a perspective. Before you can use File Manager, you need to open it's perspective.

- 2. Opening the File Manager perspective.
  - a. From the menu bar near the top of the eclipse workbench, select  $\underline{Window} > \underline{Open Perspective} > \underline{File}$ <u>Manager</u>.
    - i. Note: If "File Manager" isn't shown as a selection, then the File Manager perspective is already open and you can proceed to the next step.

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b. The File Manager perspective is displayed. Note that the contents of the Systems Information view may be different or even blank on your system.

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- c. Notice that there are several views (windows) in the File Manager perspective. By default, the Systems Information view is displayed in the upper left. In the next exercise, you will use the Systems Information view to work with files. From the Systems Information view, you can initiate actions including:
  - Display a list of your files
  - Display a list of files based on a name filter
  - Edit or view a file
  - Copy or export a file
  - Compare two files
  - and other actions
- d. You can display help information to assist with various features of File Manager. To open the help dialog, select <u>Help</u> > <u>Help Contents</u>.

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- e. The help dialog is displayed.
- f. To expand the File Manager help topics, click the plus (<u>+</u>) next to IBM File Manager User Guide.



g. Under IBM File Manager User Guide, select <u>Editor</u> > <u>Starting File Manager Base Editor</u>.



- h. The selected topic is displayed.
- i. Now you have seen how to display general help information. Close the help dialog: click the  $\underline{X}$  (close) icon in the upper right corner of the window.

j. You can also display a list of keyboard commands. In the eclipse workbench Select Help > Key Assist.

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k. A list of keyboard commands is displayed.



1. Now that the File Manager perspective is open, and you know where to find help, you are ready to start using File Manager in the following exercises.

## Lab Exercise 2 Working with z/OS data sets in the Systems Information view

In this exercise you will:

- Display a list of your data sets
- Create a query to display a list of data sets based on a name pattern
- Use the filter bar to filter all lists
- 1. Before beginning this exercise, you must have a connection to a z/OS system. If you are not sure how to connect, or which system you should use for this exercise, please ask.
- 2. You can use the Systems Information view to display a file or a list of files on a z/OS system, and work with files using File Manager. Notice that under the zOS system definition, one of the selections is 'Data Sets'.
  - a. Under the name of the z/OS system that you will access during this exercise, click the small triangle next to **Data Sets.**



b. The 'Data Sets' selection is expanded to show 'Browse My Data Sets'.



- 3. When you connected to the z/OS system, you created or selected a 'credential', which specified a User ID on the z/OS system. The 'Browse My Data Sets' selection will display a list of files on the z/OS system whose names begin with that User ID.
  - a. Click the small triangle next to **Browse My Data Sets**, to expand it.



- b. A list of data sets that begin with your User ID are displayed.
  - Note that if a large number of files start with your User ID, the list is grouped under indexed headings that can be expanded individually. This example shows the list displayed under two groupings.



- 4. You can create a query to display a list of data sets based on your own filter.
  - a. Right-click Data Sets, then select Add Query.



b. Type <u>vour-id.ADLAB.C\*\*</u> in the Query field, and click <u>OK</u>. (Where your-id is your z/OS User ID).

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c. A list of matching files is displayed.



- d. Tip: You can use these wildcard characters in a query:
  - \*\* (two asterisks) zero or more characters in any number of qualifiers
  - \* (one asterisk) zero or more characters in *only one* qualifier
  - % (percent sign) one character
- e. Tip: You can define as many queries as you want. If you are familiar with working with z/OS files from TSO, a query is similar to a 3.4 data set list. Since you can have more than one query, it is similar to having the ability to have multiple 3.4 file lists all at the same time. This is one of the advantages of the eclipse interface for File Manager.
- 5. You can enter a search string to filter all file lists.
  - a. In the filter area, Type <u>lab</u> and notice the result. Only files that contain the letters 'lab' in the name are displayed.



b. Continue typing <u>lab.list</u> and notice the results.



c. Clear the contents of the filter area to display all files again.

- d. Tip: Use the filter bar to limit all of the file lists. It even works for PDS and library member names when they have been expanded to show the members.
- 6. You can modify or remove an existing query.
  - a. **Right-click** the query that you added, then select <u>Modify</u>.

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b. Change the query to *vour-id*.ADLAB.L\*\* and click <u>OK</u>.

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- c. The list now shows files according to the new filter in the query.
- 7. You have completed this exercise. Now that you can display a list of files on a z/OS system, you are ready to continue with the next exercises.

### Lab Exercise 3 <u>Using the editor and viewer</u>

In this exercise you will:

- Open a file in the editor or viewer
- Open a file in the editor or viewer, using a copybook as a layout
- Learn to use the basic features of the editor, including navigating a file, finding data in a file, changing data, and inserting, deleting and sorting records
- Learn to exit the editor and save changes
- 1. Before you open a file in the editor, it is easiest to create a query that shows the file in a list.
  - a. Right-click Data Sets, then select Add Query.



- b. Type <u>*your-id*.**ADLAB.CUST**\*\*</u> in the Query field, and click <u>**OK**</u>. (Where *your-id* is your z/OS User ID).
- c. A list of matching files is displayed, including *your-id*.ADLAB.CUST1.
- 2. You can open a file in the editor without a copybook or template
  - a. Double-click *your-id*.ADLAB.CUST1 in the list.



- b. The Editor Options dialog is displayed. Notice that the name of the file is already entered in the 'Resource' field.
  - Ensure that the 'Copybook or Template: Data set name' field is blank.
  - Click the <u>Edit</u> button.

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- c. The editor is displayed. Notice that there are two views of the data. The multiple record view appears at the top by default, and the single record view appears at the bottom and displays only one record at a time.
  - Tip: If you select (click) a record in the multiple-record view, that record displays in the single record view.

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d. To close the file, click the  $\underline{\mathbf{X}}$  on the tab that shows the file name in the multiple record display.

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- 3. Next, you will start another editor session, but this time you will specify a copybook that will be used as a layout in the editor.
  - a. Double-click *your-id.adlab.cust1*.
  - b. The Editor Options dialog is displayed.
    - In the Copybook or Template Data set name field, type *your-id*.ADLAB.COPYLIB(CUST1).
    - Click the <u>Edit</u> button.

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c. The editor display provides both multiple-record and single-record views **with** field level mapping (formatting). Notice that the data is mapped by field names in the copybook.

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- 4. You can control the display modes in the multiple-view display.
  - a. The multiple-record view has two display modes. Formatted mode displays the data formatted according to the fields in the layout. Character display mode shows unformatted data.
    - To toggle the mode, <u>right-click</u> directly on the field headings line, then select <u>Switch Mode</u>.
      - Tip: You can also use the Switch mode icon on the toolbar.

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b. The multiple-record view display is changed to character mode. In character mode, the data is not formatted according to the fields in layout.

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- c. Toggle the format again:
  - Right-click in the data area, then select <u>Switch Mode</u>.



d. The data is displayed in formatted mode again.

- e. You can re-arrange the fields in the formatted multi-record display.
  - Drag and drop the ADDR field to the left.

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- After the drag and drop, the field displays in a different position.
  - Note: Re-arranging fields only affects how data is displayed, is does not modify where data is stored in the records.
- f. In formatted mode, notice that you can display information about fields.
  - Hover the cursor over a field name, but do NOT click.
  - The field information appears automatically in a pop-up box.

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	Parker, Ford	233.27	12	3039 Manning St.	D
	Early, Brighton Lander, Annette	AN = alphanum 6:17 = starts in p #4 = field numb	eric fiel osition per 4	d 6, length 17 bytes	

- 5. You can also control the display modes in the single-view display.
  - a. In the single-record display, select <u>View Mode</u> > <u>Dump Mode</u>.

yout CUST-REC		đ	Current 1		Total 100	c
Field	Picture	Туре	Start	Length	Data	
CUST-ID	X(5)	AN	1	5	01001	
NAME	X(17)	AN	6	17	Lynn, Amanda	
ACCT-BALANCE	\$9(7)V99	PD	23	5	610.05	
ORDERS-YTD	59(4)	BI	28	2	10	
ADDR	X(20)	AN	30	20	89 Clay Springs R	d
CITY	X(14)	AN	50	14	Atwon	
STATE	X(02)	AN	64	2	NV	
COUNTRY	X(11)	AN	66	11	USA	
MONTH(1)	59(7)V99	PD	77	5	4.84	
MONTH(2)	\$9(7)V99	PD	82	5	1.00	
MONTH(3)	\$9(7)V99	PD	87	5	3.00	
MONTH(4)	\$9(7)V99	PD	92	5	10.89	
MONTH(5)	\$9(7)V99	PD	97	5	5.00	
*				. 111		
w Mode Single M	Vlode 👻	Insert Mode In	sert			

- b. The single-record display is changed to dump mode. In dump mode, field names are not shown.
- c. Switch back to single mode:
  - Select the 'View Mode' pull-down, then select **<u>Single Mode</u>**.
- d. The single-record display is changed back to single mode, and the field names are shown again.
- 6. There are many actions that you can select in the editor or viewer, and there are many ways to select an action. Use which ever method or methods that you prefer. Four methods are:

i. You can select the **<u>File Manager</u>** menu option, and select an action from the menu.

2 - 21 A C		1	Switch Mode	Alt+M	183 - 2 -	- N - N	-	
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		2	Page Down	F8		and the California		
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BR Fault	Analyzer for z/OS	192	Insert Records	Ctrl+Shift+I	urr Tie are	shown	•3646.00000000000000000000000000000000000	Northside Pibley
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ii. You can use one of the keyboard command equivalents. The keyboard equivalents are shown on the File Manager menu.

iii. You can right-click on the heading area of the multi-record view, and select an action from the context menu.

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7. Click any record in the multiple-record display, and notice that it appears automatically in the single-record display.

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- 8. A view can be expanded.
  - a. Double-click the tab of multiple-record display.

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- b. Notice that the view is expanded to the full window. It can be helpful to expand a view to display more data.
- c. Double-click the tab again, and the view is restored to its original size.
- 9. You can scroll to other records in the file.
  - a. Use the scroll bar on the right to scroll down and up.

DINET074	DI AR CUSTI RIG	COPY 12						10.00
		-			-			
Navigation	LOCATE 999	• 0 c	Cursor 12		O Current 5		Total 1000	
	CUST-ID	NAME	ACCT-BALANCE	ORDERS-YTD	ADDR	CITY	STATE	COUNTI *
1	01001	Lynn, Ananda	610.05	10	89 Clay Springs Rd	Atwon	NV	USA
2	02200	Graham, Anna	67.68	9	119 North Lake Road	Spirit Lake	10	USA
3	02202	Major, Art	1234.56	5	1512 Pine Bluff	Harmon	2994	USA
4	03003	Prentice, Anna	0.00	7	33 Renshaw	Laramie	107	USA
5	03390	Deeds, Darran	74.00	3	649 Brown Street	Sandstone	IN	USA
6	05570	Parker, Ford	233.27	12	3039 Manning St.	Dearborn	HI	USA
7	86101	Early, Brighton	311.08	10	9662 Summit Road	Buxford	NE	USA
8	06106	Lander, Annette	489.84	8	6127 Cedar Street	Taledega	AL	USA
9	05711	Dubree, Dustin	192.98	11	9229 Delegate's Row	Indianapolis	IN	USA
10	05980	Bacon, Chris P.	1001.01	0	1134 Rosetta	Lisle	It	USA
11	07005	Houston, Roger	296.97	10	4411 Northside Pkway	Banner Elk	NC	054
12	87844	Schauer, April	88.83	7	7331 Gulf Shore Dr.	Naples	FL.	US4
13	87877	Mann, Mr. E.	621.85	1	24 Valentine Rd	Danville	TN	US 7
14	07707	Clime, Hilda	232.20	9	5545 Crystal Springs	Downgiac	HI	USAV
15	07870	Furst, April	122.15	1	955 Dundas	London	ON	Canadi "
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tion a little	T BEC	50 e.c.	olate DNET074 ADI	AR CORVERNER	(II) - (II) (e) (In-	1		

- 10. The 'Navigation' field can be used to directly scroll to (locate) a record in the file.
  - a. Type <u>75</u> in the Navigation field and press <u>Enter</u>.



b. The file is scrolled to record number 75.

- 11. You can also locate a column name.
  - a. Right-click on the column heading line, then select Locate Column.



- b. The 'Locate Field' dialog is displayed.
- c. Select <u>Occupation</u>, then click <u>OK</u>.



d. The display is positioned so that the Occupation field is visible.

N	avigation UP	200	*	0 2	Cursor		O Cum	ent 550	Total 1000	
i)	MONTH(5)	MONTH(6)	MONTH(2)	MONTH(8)	HONTH(9)	MONTH(18)	MONTH(11)	HONTH (12	OCCUPATION	10
9	0.00	9,68	0.00	8.00	0.00	7.26	9.68	0.00	Weather Serecaster	1
e	0.00	4.84	0.00	73.81	73.81	73.81	73.81	73.81	Highway Tunneling Engineer	
4	7.49	14.52	0.00	7.26	0.00	0.00	10.89	7.26	QA Planner	
9	0.00	9.68	0.00	9,68	0.00	7.26	0.00	9.68	Rescue Diver	
	3.63	3.63	2	8 . 22	0.00	44.44	3.43	2.02	Destinger of Design blockers	

- 12. You can use a special dialog to find and replace data.
  - a. Right-click on the column heading line, then select <u>Find/Replace</u>.

8 DNET	074.ADLAB.CUST1 😒						- 0
Naviga	tion TOP		• 0 🖻 🖪	Cursor		Current	
	CUST-ID	NAME (	Switch Mode	Alt+M	RS-YTD	ADDR	CIT
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3	click 2282	Majo	, roge bonn		5	1512 Pine Bluff	Han
4	03003	Pren	Copy Records	Ctrl+Shift+C	7	33 Renshaw	Lar
5	03390	Deed of	Cut Records	Ctrl+Shift+X	3	649 Brown Street	San
5	05570	Park m	Paste Records	Ctrl+Shift+V	12	3039 Manning St.	Dea
7	06101	Earl	Insert Records	Ctrl+Shift+1	10	9662 Summit Road	Bux
e	06106	Ane I	Delete Records	Ctrl+Shift+D	8	6177 Padan Streat	та <b>1</b> }
Layout	CUST-REC	9	Find/Replace	Ctrl+Shift+F	YLIB(CU	ST1) • 🔍 😹 🔮	
		17	Locate Column	Ctrl+Shift+L			-
ORMA	TTED	4	Sort Records	Alt+5			
		- 4					

b. In the Find field, type **ann**, then click **Find**. (Note: The default navigation is 'Next'.)

Q Re	Q Find/Replace (DNET Find: ANN Replace with:	174 ADLAE_ (5) (6) (2)	Window Help Window Help Window Help Quick Access	2/OS
1	Search range #ALL Nevigation	Field Column Search string options Case sensitive	TOP	<u>ר</u>
	O All O Previous O First O Last	Hexadecimal Picture string Encoding Hexadecimal	CUST-ID         NAME         ACCT-BALANCE         ORDERS-YTD         ADDR         ADDR           02200         Graham, Ann         67.68         9         119 North Lake Road         9           02202         Hajor, Art         1234.56         5         1512 Pine Bluff         9           03003         Prentice, Ann         0.00         7         33 Renshaw         0	ilT Spi Han Lar
	Others	Replace string options Case sensitive Hexadecimal Ficture string CEncoding Hexadecimal	03390         Deeds, Darren         74.00         3         649 Brown Street         5           05570         Parker, Ford         233.27         12         3839 Monning St.         0           06101         Early, Brighton         311.48         10         9662 Junmit Road         0           06106         Lender, Annette         489.84         8         6.07 Cedar Street         1           06311         Didmas         Didmas         Didmas         1         530 Delarsta's Dom         1	ian Jea Bux Tal Tad *
	Match options CHARs Prefix	Search scope options All records Excluded records Only	Template Others in the display are highlighted	_
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			Picture Type Start Length Data Single Mode  Insert Mode Insert	
	4		Insert 0 - DEMOMVS	

- c. Notice that the next occurrence of 'ann' was found.
- d. The search can be limited to a specific field or fields.
  - Leave <u>**ann</u>** in the 'Find' field</u>
  - Click <u>Field</u>.



- The Field Selection dialog is displayed.
- Click the **Deselect All** button.
- Select the <u>ADDR</u> field, then click <u>OK</u>.

	R Field Selection				
R	Field Selection		Manager S	Debug BR Fault Analyzer	₫ z/0
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	I NAME		DRDERS-YTD	ADDR	CIT
4	ACCT-BALANCE			119 North Lake Road	Soi
4	CRDERS-YTD		5	1512 Pine Bluff	Hat
4	M ADDR		7	33 Renshaw	Lar
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• Notice that the data was found, and that only the ADDR field was searched.

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- 13. After finding data, the display can be reset to remove the highlighting where data was found.
  - a. Click <u>**Reset**</u> to remove the highlighting.

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- 14. The Find/Replace dialog can also be used to replace data in a specific field.
  - a. In the Find/Replace dialog, type <u>**Gulf**</u> in the 'Find' field and <u>**Bay**</u> in the 'Replace with' field, then click <u>**Replace**</u>.

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- b. Notice that data was found and changed in a record.
- 15. Sorting records
  - a. To sort records, click on any field name. (Note: You can also select the Sort icon on the Menu Bar.)
  - b. The 'Sort Options' dialog is displayed.
  - c. Click the Add Criteria icon.

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- d. The 'Sort by Field Reference Criteria' dialog is displayed.
- e. Select <u>ACCT-BALANCE</u> from the field reference list, then click <u>OK</u>.



- f. In the 'Sort Options' dialog, click <u>OK</u>.
- g. Notice that the records are sorted.

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- 16. When you exit from the editor, you have the option to either save or cancel the changes.
  - a. Click the  $\underline{\mathbf{X}}$  on the tab with the file name.
  - b. In this example, click <u>No</u> to cancel all changes made to the file.



- 17. The editor session ends.
- 18. You have completed this exercise.

### Lab Exercise 4 <u>Working with templates</u>

In this exercise you will:

- Learn how to create a new File Manager template based on a copybook
- Use a template to:
  - a. display only selected records in a file
  - b. display only selected fields in each record
- Learn other basic features of templates

#### **Introduction to File Manager templates**

When you use the File Manager editor or viewer, you can specify a layout in the form of either a copybook or a template. If you specify a copybook, the editor/viewer can display records formatted according to the fields in the copybook. While a copybook defines the record layout, it cannot be used to select only a subset of records.

A template, like a copybook, also has fields and defines the record layout. In addition, in a template you can specify:

- Record selection criteria (so that only the selected records will display)
- Field selection (so that only selected fields will display)
- Formatting of individual fields (for example, to always display a certain field in hexadecimal)
- And other formatting and data manipulation settings

You can use an existing copybook as the basis for a new template. All of the fields in the copybook are copied into the new template, and then you save the template. Templates are stored in PDS or library data sets. After you have saved a template, you can re-use it again whenever you need it.

Templates can be used by other File Manager utilities other than just the editor and viewer. For example, if you have a template that selects records, you can use it with the File Manager copy utility, and only the selected records will be copied.

The following exercises will help you become familiar with File Manager templates.

- 1. In the next few steps, you will create a new template, using an existing copybook as a model. There are several methods you can use to create a new template. One method is to use features that are built into the editor/viewer dialog, which you will do in the following steps.
- 2. Check that you have the file *your-id*.ADLAB.CUST1 in any list under 'Datasets' in the Systems Information view. A query was added in a previous exercise that should display it.
  - a. If this file is not displayed in any list, add a new query that will display it.
  - b. If the file is not displayed, and you are not sure how to create a query to display it, refer back to exercise 2 and add a query before continuing.

- 3. First, specify certain File Manager options that control how records are displayed in the editor when record selection criteria is used.
  - a. Select <u>Window</u> > <u>Preferences</u> from the menu.



- b. The Preferences dialog is displayed.
  - Select <u>File Manager</u> > <u>Formatted editor</u>.
- c. The 'Formatted Editor' preferences are displayed. Ensure that you have all of the following options selected (check marked):
  - 'Group NOT SELECTED records.'
  - 'Group SUPPRESSED records.'
  - 'Display shadow lines for excluded record groups.'
  - 'Display shadow lines for not selected record groups.'
  - 'Display shadow lines for not suppressed record groups.'
- d. Click the <u>Apply</u> button, then click the <u>OK</u> button.

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- 4. Next you will use the file editor dialog to create a new template based on an existing copybook, and you will also specify record selection criteria in the template:
  - a. From any file list under 'Datasets' in the Systems Information view, double-click the data set named <u>your-id.ADLAB.CUST1</u>.
  - b. The Editor Options dialog is displayed.
  - c. Type or select *your-id*.ADLAB.COPYLIB(CUST1) in the Copybook or Template Data set name field.
  - d. Click the 'Edit Template' icon, which is located just to the right of the copybook name.

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- e. The template-editing dialog is displayed. Notice that the fields from the copybook were automatically copied into the new template.
  - Click the <u>Build Selection Criteria</u> button (located to the right of the 'Selection Criteria' field).

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f. The 'By-Field Criteria Builder' dialog is displayed.

#### • Click the <u>Add New Criteria</u> button.

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- g. Note: In this example, you will specify selection criteria that will select records where the text 'ANN' is contained anywhere within the NAME field.
- h. The 'Field criteria specification' dialog is displayed.
  - Select (click) the <u>Name</u> field
  - Click the operator pull-down

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- Select the <u>CU</u> (contains) operator.
  - Note: A CU operator will perform a substring search in the specified field looking for the matching string. It is not case sensitive.

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• Type <u>ANN</u> in the Value field, then click <u>OK</u>.

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i. The 'By-field Criteria Builder' dialog is displayed again. Notice that the specified selection criteria is shown.

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- j. The template editor is displayed again.
  - Click the <u>Save As</u> button to save the template.

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- k. The 'Save As' dialog is displayed.
  - i. Type <u>vour-id.ADLAB.TEMPLATE(CUST1)</u> in the Resource name field, then click <u>OK</u>.
- 1. The template editor is displayed again.
  - i. Click <u>OK</u>.
- m. The 'Editor options' dialog is displayed again.
  - To use the new template, enter: <u>your-id.ADLAB.TEMPLATE(CUST1)</u> in the Copybook or Template Data set name field.
  - Click <u>Edit</u>.

itor Options	
pecify options for File Manager e	editor.
Resource Information for Edit an	d View
Resource DNET074.ADLAE	3.CUST1 - Q
Volume serial	<b>•</b>
Copybook or Template	
Data set name DNET074.ADLA	B.TEMPLATE(CUST1) - 😸 🔍
Start Position Options	
Start position type NONE	▼
Start position	-
Processing Options	
Inplace edit	
Record sampling	
Include physical records	<b></b>
Skip physical records	·
Record limit	•
Include only selected records	
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GRAPHIC Encoding:	
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MQ: Include Message Descripto	rs 🔲
	cont view Cancel

n. Notice that only records that match the selection criteria in the template are displayed.

	CUST-ID	NAME	ACCT-BALANCE	ORDERS-YTD	ADDR
1 record(s	5)				
2	02200	Graham, Anna	67.68	9	119 North Lake Roa
1 recor	÷				
4	03003	Prentice, Anna	0.00	7	33 Renshaw
🔁 3 recor					
8	06106	Lander, Annette	489.84	8	6127 Cedar Street
4 record(s	s) not sele	cted			
13	07077	Mann, Mr. E.	621.05	1	24 Valentine Rd
۰ III					

o. Close the editor session.

- 5. In addition to selection criteria for records, a template can also be used to select and re-order fields, and customize how fields are displayed.
  - a. From any file list under 'Datasets' in the Systems Information view, double-click the data set named *your-id*.**ADLAB.CUST1**.
  - b. The Editor Options dialog is displayed.
    - Type or select *your-id*.ADLAB.TEMPLATE(CUST1) in the Copybook or Template Data set name field. This is the same template that you just created.
    - Click the 'Edit Template' icon, which is located just to the right of the copybook name.

ile Edit Navigate Search Project Run V	dow H C Editor Options
≝ • E R ≜ i > • Q • i % • i k	Editor Options Specify options for File Manager editor.
🔚 Systems Information 🖂 👘	Resource Information for Edit and View
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<ul> <li>demomvs.demopkg.ibm.com:2800 - Der</li> <li>Rault Analyzer for z/OS</li> <li>Action History</li> <li>Res CICS</li> </ul>	Copybook or Template Data set name DNET074.ADLAB.TEMPLATE(CUST1)
Data Sets Browse My Data Sets	Start Position Options
DNET074.ADLAB.CUST**	Start position type NONE
DNET074.ADLAB.CUSTFILE	Start position
DNFT074.ADI AF	Processing Options
DNFT074.ADI AB USTI.RIGCO	Processing Options Inplace edit

- c. The template-editing dialog is displayed.
- d. Next you will select fields for display.
  - Click inside the 'Selected' column for the CUST-ID field. Click again until an 'S' (for selected) appears.

ET074.ADLAB. Manager Templa	TEMPLATE(C	CUST1)				
out Copybook	s Informatio	n				
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Reference	Sequence	Hold	Selected	Level	Name	Additional Clause
1				1	CUST-REC	
2			$\frown$	2	CUSTOMER-KEY	
<del>E</del>			( S 📐 )	3	CUST-ID	
3						
3				2	NAME	

• In the same way, also select the NAME, ACCT-BALANCE, CITY, STATE, and OCCUPATION fields.

Reference	Sequence	Hold	Selected	Level	Name
1				1	CUST-REC
2			$\frown$	2	CUSTOMER-KEY
3			s	3	CUST-ID
4			s	2	NAME
5			S	2	ACCT-BALANCE
6				2	ORDERS-YTD
7				2	ADDR
8			S	2	CITY
9			S	2	STATE
10				2	COUNTRY
11				2	MONTH
12			S	2	OCCUPATION
13			$\smile$	2	NOTES
14				2	LAB-DATA-1

- e. Next you will change the display order of the fields, so that the NAME field will display first and the OCCUPATION field will display second.
  - In the 'Sequence' column, type  $\underline{1}$  for the NAME field, and  $\underline{2}$  for the OCCUPATION field.

Reference	Sequence	Hold	Selected	Level	Name
1				1	CUST-REC
2				2	CUSTOMER-KEY
3	$\cap$		S	3	CUST-ID
4	1	$\backslash$	S	2	NAME
5			S	2	ACCT-BALANCE
6				2	ORDERS-YTD
7				2	ADDR
8			S	2	CITY
9			S	2	STATE
10				2	COUNTRY
11				2	MONTH
12	2		S	2	OCCUPATION
13	$\smile$			2	NOTES

- f. Click the <u>Save</u> button to save the changes to the template, then click the <u>OK</u> button.
- g. The 'Editor options' dialog is displayed again.
  - Ensure that the template name <u>your-id.ADLAB.TEMPLATE(CUST1)</u> is specified in the Copybook or Template Data set name field.
  - Click <u>Edit</u>.
- h. In the editor, notice that now only the selected fields are displayed, and they are in the specified order.

DNET074.ADLA	B.CUST1 🔀					
Navigation		🕶 💽 🖆 🗔 😭 😭 Column#	1	Cursor		Cu
	NAME	OCCUPATION	CUST-ID	ACCT-BALANCE	CITY	S1 ^
📉 1 recor						
2	Graham, Anna	Crossword editor	02200	67.68	Spirit Lake	I
🔁 1 recor						
4	Prentice, Anna	New hire	03003	0.00	Laramie	w ≡
🔀 3 recor						
8	Lander, Annette	Trapeze artist	06106	489.84	Taledega	AI

- 6. Close the editor session.
- 7. You have completed this exercise.

### Lab Exercise 5 <u>Allocating new data sets</u>

In this exercise you will:

- Learn how to allocate a new z/OS data set from File Manager using the Systems Information view
- 1. You can allocate a new non-VSAM or VSAM data set from the Systems Information view. In this example, a non-VSAM data set will be allocated. The example will use a model. It is not necessary to use a model, but using a model simplifies the process.
- 2. Allocating a non-VSAM data set.
  - a. From a data set list in the Systems Information view, right-click *your-id*.**ADLAB.CUST1** (to use as a model), then select **<u>Properties</u>**.



b. This loads the properties values for the existing file, which will be used for the new file allocation.

/					
ngfal	Property	Value			
mplates	Average record size	600			
	Block length	15000	1 N		
	Catalog name	CATALOG.USERS.UCAT			
	Changed	YES	Single Ma., CR. IMS Seam., 19	Lookan Con	Host Conn SI
	Creation date	2010.039			
	Expiration date	0000.000			8812184
	Extended	No	Connections		Credentials

1111

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c. Next, right-click *your-id*.ADLAB.CUST1, then select Allocate Wizard.



- d. The 'Allocate Data Set Wizard' dialog is displayed.
  - Type *your-id*.ADLAB.CUST1.NEW in the Data set field, then click Next.
  - In the Allocation Parameters pop-up, click **<u>Finish</u>**.

C Allocate Data Set Wizard
Allocation Parameters Specify optional settings for QSAM data set allocation
Allocation Options Volume: • Space type: BASIC • Device type: • Directary blot ks: •
Record Format     Specify by choosing options     Length: Undefined Fixed Variable     Misc options: ASCII Blocked Spanned     Printing control: Machine characters: ASA (ANSI) characters
Specify in advanced form
Record Format Options
Record length: 600 • Block state 15000 •

- e. If the file was allocated, a message is displayed indicating the successful creation.
  - Click <u>**OK**</u> to clear the message.

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74.ADLAB.CUS Allocation	
74.ADLAB.CUS	
2 Information	
Please review the information below	
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<pre>ceessage number="4872" text="FMNBE</pre>	872 Creation of DNET074.ADLAB.CUST1.NEW successful." /> -
Keessage number="4872" text="FMN88	872 Creation of DNET074.ADLAB.CUST1.NEW successful." /> -
<pre><message number="4872" text="FP9888&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;872 Creation of DNET074.ADLAB.CUST1.NEW successful."></message> =</pre>	
<pre><message number="4872" text="FP9088&lt;br&gt;4&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;872 Creation of DNET074.ADLAB.CUST1.NEW successful."></message> -</pre>	
Kmessage number="4872" text="FMNBE	872 Creation of DNET074.ADLAB.CUST1.NEW successful." /> -
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f. The new data is displayed in a data set list, if the name matches one of your queries.



- 3. Note: You can allocate a new VSAM data set by following a similar process, except that you would select a VSAM data set type in the Allocate Wizard dialog, and specify the appropriate characteristics for the VSAM file.
- 4. You have completed this exercise.

### Lab Exercise 5 <u>Copying data sets</u>

- 1. You can run the File Manager data set copy utility from the Systems Information view.
  - a. From a data set list in the Systems Information view, right-click <u>vour-id.ADLAB.CUST1</u> (to use as the input file), then select <u>Copy Wizard</u>.



- b. In the Copy Destination Resource field, type your-id.ADLAB.CUST1.COPY, then click Next.
  - (Note: If the destination data set does not exist, it is allocated automatically using the input data set as a model.)

py Basic S	ettings	
nter the reso	urce to copy from and the resource to copy to	
Copy Source	e	
Resource	DNET074.ADLAB.CUST1	- 6
Volume		
Copy Destin	sation	
Resource	DNET074.ADLAB.CUST1.COPY	- 6
Volume:		
	Finis	th Cancel
	The second secon	Cances

- c. On the Template Selection screen, click <u>Next</u>.
  - (Note: An input and/or output copybook or template can optionally be specified for field level mapping during the copy, but it is not needed for a typical file copy.)

Source Template					
Template:				8	- 11 9
Field offsets:					
Destination Templ	ste :				
Template				(a	• [13] Q
Field offsets:					+ 4
Generate defau	At mapping (cop	y cottespond	ing fields)		

- d. On the Additional Options screen, click <u>Next</u>.
  - (Note: Initial position can be specified with Skip records or VSAM key.)



- e. On the Advanced Options screen, click **<u>Finish</u>**.
  - (Note: Record sampling options provide a way to copy only periodic subsets of records.)

Copy Wizard		0.0
lvanced Options		
pecify advanced copying optic	ins	
Source Options		
Adjust input when account	iting for record descriptor word	
Binary record length:		
Destination Options		
Adjust output when accou	unting for record descriptor word	
Binary record length:	* []10 Exit	-
Record Sampling Options		
Skip:	✓ Include:	
Miscellaneous options		
Output in XML format (rec	quires Source Template)	
< Back	Not > Finish	Cancel
Reconcernent of the		K

- f. If the copy completed, a message is displayed indicating success.
  - Click <u>**OK**</u> To clear the message.



- g. The new data set is displayed in a data set list, if the name matches one of your queries.
- 2. You have completed this exercise.

### Summary

Congratulations, you have completed the exercises and have familiarized yourself with the File Manager eclipse interface.

In this lab:

- You displayed lists of files based on file name filters
- You selected and opened a file in the editor
- You used the file editor to navigate files and work with data and records
- You used a template to select records in a file and to customize how the data in a file is displayed
- You allocated a new z/OS file
- You copied a z/OS file

If you have any questions about File Manager, please contact the instructor.



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