

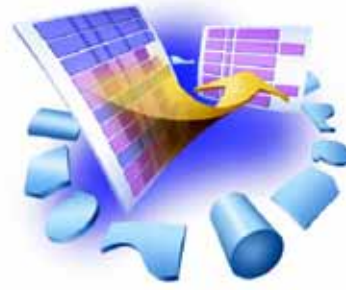


IBM Software Group

IBM File Manager for z/OS IMS Feature

Program Number 5655-S14

Tutorial



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02

Welcome to the tutorial for the IMS feature of IBM's File Manager for z/OS, one of the IBM zSeries problem determination tools.

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Welcome to the tutorial for the IMS feature of IBM's File Manager for z/OS, one of the IBM zSeries problem determination tools.



File Manager IMS training: sections



■ Using a view

- Selecting segment types to display
- Selecting segments to display based on data content
- Save a view
- Customize how data is displayed
- Use edit or browse to format and generate a report

In this section, you will learn how to work with a File manager IMS view.



Using views

Topics in this section:

How can you:

- control which segments are displayed?
- control which fields are displayed?
- customize a report?



You will see how to use a view to select which segments to display, and how to select which fields to display.



Review: templates and views

- A template maps copybook layouts to segments
 - You must save a template if you want to see layouts
 - There is only one template needed per DBD
- A template is required before you can create a view
- A view lets you:
 - Select segment types
 - Select segments based on data values
 - Select fields to be displayed
- You do not have to save a view
 - A view can be “temporary”
- You can save as many views as you want
 - Each view can have different selection and formatting

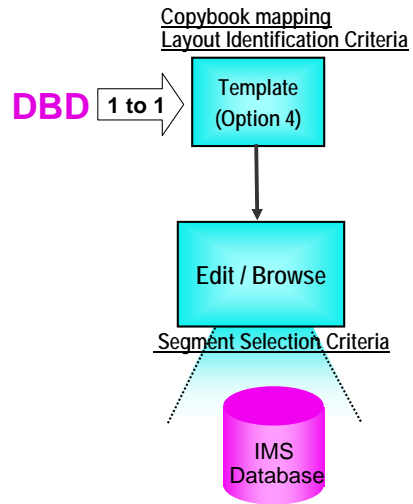
In earlier sections, you were introduced to File Manager IMS templates and views. Here is a brief review. Templates are created to map copybook layouts to segments in a database. You must have a template if you want to see your segments broken out into fields. For any DBD, you only need one template. A template is required before you can create and use a view.

You can use a view to select segment types to be displayed, select segments based on data values, and select fields in the segments to be displayed. Be aware that you do not have to save a view before you use it. A view can be created on the fly and be temporary. However, you can save a view if you want to be able to use it again. You can save as many views as you want, and each one can have different selection and formatting.



Templates, views and criteria

File Manager / IMS



As you just saw, you create and save a template to map copybooks to segments in your data base. After you have a template, you can create and use a view to select segments and format data.



File Manager IMS training: sections

■ Using a view



- Selecting segment types to display
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- Use edit or browse to format and generate a report

Next, you will see how to use a view to select segment types to be displayed.



You can use a template/view in edit and browse

```
Process  Options  Help
-----
FM/IMS                                     Primary Option Menu
Command ==> 2
-----
0 Settings      Set processing options      User ID . . : DNET424
1 Browse        Browse data                  System ID  : DEMOMVS
2 Edit          Edit data                    Appl ID   : FMN1
3 Utilities     Perform utility functions   Version   : 8.1.0
4 Templates     Template/view/criteria set  Terminal  : 3278A
X Exit         Terminate FM/IMS           Screen    : 1
                                           Date     : 2007/10/28
                                           Time     : 16:42

                                           Enter

F1=Help      F2=Split    F3=Exit     F4=CRetriev F7=Backward F8=Forward
F9=Swap      F10=Action  F12=Cancel
```

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In this example, the editor will be used. From the File Manager IMS menu, option 2 is selected. Enter.



Select the "Use view" option

Process Options Help

FM/IMS Edit Entry Panel (Dynamic PSB)

Command ==> _____

DBD:

Data set name 1 . . . ADLAB.DBDLIB

Data set name 2 . . . _____

Member USRSCN

IMS:

Subsystem Name . . . IMSB

AGN Name _____ (If BMP)

Processing Options:

Region Type	IMS log (if DLI)	Enter "/" to select option
<u>1</u> 1. DLI	<u>3</u> 1. Keep	Secondary index
2. BMP	2. Delete	Use view
	3. None	Create audit trail
		- Use dynalloc DB dsnames


Select this to use a template and view

F1=Help F2=Split F3=Exit F4=CRetriev F7=Backward F8=**Enter**

F9=Swap F10=Actions F12=Cancel

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To use a template and a view, select the "use view" option with a slash. Enter to continue.



Datasets for DLI mode

Process Options Help

FM/IMS Edit : Database Data Set Specification

Command ==> _____ Scroll CSR

Subsystem IMSB Database USRSCN

DBD name	DD name	Data set name
USRSCN	USRSCN	ADLAB.USRSCN
USRSCNI	USRSCNI	ADLAB.USRSCNI

**** End of data ****


Processing Options:

Fetch dsnames from Enter "/" to select option

1 1. Profile / Save dsnames in profile

2. Dynamic Allocation data set

Press ENTER to confirm usage of the specified data set(s)



F1=Hel F9=Swap F10=actions F12=Cancel

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When you are accessing a database in DLI mode, the database data set specification panel is displayed. Provide file names and press Enter.

Specify the location of the template
You can create a new view or use an existing view

Process Options Help

FM/IMS Edit : View Specification

Command ==> _____

Subsystem IMSB Database USRS

Do not specify the template member name. It is always the same as the DBD name.

Template:
Data set name . . . ADLAB.TEMPLATE

View:
Data set name . . . ADLAB.VIEW
Member USRSCN

Processing Options:
View usage
1. New
2. Existing
3. None

Enter "/" to select option
Save view on return

Enter

Create a new view, or use the one you already saved.

Prompt to save the view, if you make selection or formatting changes.

F4=Cre

F9=Swap F10=Actions F12=Cancel

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Since the “use view” option was selected, this panel is displayed where you can specify the name of a template and view. It is required that you have already created and saved a template. Specify the name of the library where you saved the template. The template member name must be the same as the DBD name.

If you do not already have a view that you want to reuse, then specify 1 in the View usage option, so that a new view will be created. However, if you have already created and saved a view, you can reuse it as shown here. Type 2 into the “view usage” option, and specify the file name where you saved the view in the View data set name and member fields.

If you want to automatically save changes to selection criteria or formatting in your view, also select the “save view on return” field as shown. Press Enter to continue.



The X line command selects / clears segment types

```
Process  Options  Help
-----  -
FM/IMS          Edit : Database Positioning          Chkpt FM000001 taken
Command ==> _____ Scroll CSR

Subsystem IMSB Database USRSCN Key sequence          Format TABL
View      DNET424.ADLAB.VIEW(USRSCN) Key
Cmd SXE Level Segment Description len Key value
___ SX 1 CUSTADDR 10 0003874923
___ X 2 TOTUSE 6 .....
x5 ___ X 3 PRMUSE 8 .....
___ X 3 OFFUSE 8 .....
___ X 4 OFFDTL 8 .....
___ X 2 BALDUE 6 .....
___ X 3 BALHIST 6 .....
**** End of data ****
```


Line commands
E Edit the view
X Select/Clear segment
K Key panel
S Select for positioning

Enter

F1=Help F2=Split F3=Exit F4=CRetriev F5=Key >= F7=Backward
F8=Forward F9=Swap F10=Actions F12=retrieve

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The database positioning panel is displayed. An X line command can be used to toggle segments on or off. Notice that by default, there is an X next to every segment type, meaning that all segment types will be displayed. In this example, an X5 command is typed on one of the lines. That will toggle the selected segment and the next four. Enter is pressed.



Position in the database

Process Options Help

FM/IMS Edit : Database Positioning

Command ==> _____ Scroll CSR

Subsystem IMSB Database USRSCN Key sequence Format TABL

View	C	DN	NET424	ADLAB	VIEW(USRSCN)	Key
Cmd	SXE	Level	Segment	Description	len	Key value
s	X	1	CUSTADDR		10	0003874923
		2	TOTUSE		6	.....
		3	PRMUSE		8	.....
		3	OFFUSE		8	.....
		4	OFFDTL		8	.....
		2	BALDUE		6	.....
		3	BALHIST		6	.....

**** End of data ****

X indicates that the segment type is selected

Line commands

E Edit the view

X Select/Clear segment

K Key panel

S Select for positioning

Enter

F1=Help F2=Split F3=Exit F4=CRetriev F5=Key >= F7=backward
F8=Forward F9=Swap F10=Actions F12=retrieve

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Now notice that the X's no longer display next to those segments. They will not be shown in the editor. Only the first two segment types are selected. An S line command is used to position and display the editor. Enter.



Only selected segment types are displayed

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database USRSCN
Command ==>                           Scroll CSR
          CHKPID FM000001 Autosave ON  SHOW SUP OFF Scope DB  Format TABL
          SEGA-ACCOUNT-NUM SEGA-CUSTOMER-PHONE-NB SEGA-CUSTOMER-NAME
Cmd Level Segment #2 #3 #4 +
          AN 1:10 AN 11:10 AN 21:30
          <---+----> <---+----> <---+----1---->
          **** Top of window ****
___ 1 CUSTADDR 0003874923 3273325564 BILL BUFFALO JR
___ 2 TOTUSE 2 segments
___ 1 CUSTADDR 0342323422 8133234466 Mr. Bigfoot
___ 1 CUSTADDR 1111111111 7233439938 JOHN SMITH
___ 2 TOTUSE Key=200303
___ 1 CUSTADDR 2111111111 8133249846 JOAN SMITH
___ 2 TOTUSE Key=200303
___ 1 CUSTADDR 2121111111 3445556666 MATTY MONROE
___ 2 TOTUSE Key=200303
___ 1 CUSTADDR 2121111112 3445
___ 2 TOTUSE Key=200303
___ 1 CUSTADDR 3333333333 7233439938 JOAN SMITH
F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Retrieve
  
```

Only CUSTADDR and TOTUSE segments are shown

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Here is the editor. Notice that now only CUSTADDR and TOTUSE segments are being displayed.



The Database Positioning panel

▪ “SXE” Status Column

- S indicates the hierarchical path of the current segment
- X indicates segment is included in the view (and segment is shown in yellow).
- E indicates segment has selection criteria specified

Subsystem	IMSB	Database	US
View	C	DNET424.PDV8.VIEW	
Cmd	SXE	Level	Segment
—	SX	1	CUSTADDR
—	X	2	TOTUSE
—		3	PRMUSE
—		3	OFFUSE
—		4	OFFDTL
—		2	BALDUE
—		3	BALHIST

▪ “Cmd” Column

- X toggles **selection** status of single segments

Subsystem	IMSB	Database	US
View	C	DNET424.PDV8.VIEW	
Cmd	SXE	Level	Segment
—	SX	1	CUSTADDR
—	X	2	TOTUSE
X		3	PRMUSE
X		3	OFFUSE
X		4	OFFDTL
X		2	BALDUE
X		3	BALHIST



Subsystem	IMSB	Database	US
View	C	DNET424.PDV8.VIEW	
Cmd	SXE	Level	Segment
—	SX	1	CUSTADDR
—	X	2	TOTUSE
—	X	3	PRMUSE
—	X	3	OFFUSE
—	X	4	OFFDTL
—	X	2	BALDUE
—	X	3	BALHIST

- Xn toggles a sequence of segments
- XX...XX toggles the group segments
- X* toggles all segments

Here is a little more information about the database positioning panel. There is a column labeled SXE. S indicates the hierarchical path of the current segment. X indicates that the segment is selected to be displayed. If you enter an X line command, it toggles the segment display selection on or off. E indicates that the segment has selection criteria specified.



File Manager IMS training: sections

- Using a view
 - Selecting segment types to display
 - Selecting segments to display based on data content
 - Save a view
 - Customize how data is displayed
 - Use edit or browse to format and generate a report

Next, you will see how to select segments for display based on data values in the segments.



The E line command edits the view

```
Process  Options  Help
-----
FM/IMS          Edit : Database Positioning
Command ==> _____ Scroll CSR

Subsystem IMSB Database USRSCN Key sequence Format TABL
View C DNET424.PDV8.VIEW(USRSCN) Key
Cmd SXE Level Segment Description len Key value
  SX 1 CUSTADDR 10 0003874923
  e X 2 TOTUSE 6 .....
  3 PRMUSE 8 .....
  3 OFFUSE 8 .....
  4 OFFDTL 8 .....
  2 BALDUE 6 .....
  3 BALHIST 6 .....
**** End of data ****
```

Line commands

E Edit the view

X Select/Clear segment

K Key panel

S Select for positioning

Enter

```
F1=Help F2=Split F3=Exit F4=CRetriev F5=Key >= F7=backward
F8=Forward F9=Swap F10=actions F12=retrieve
```

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Starting from the database positioning panel, in this example only the CUSTADDR and TOTUSE segment types are selected for display. The E line command is typed next to the TOTUSE segment to edit the view. Enter.

You can specify segment selection criteria

```

Process  Options  Help
FM/IMS                                     View : Segment Layout                Line 1 of 8
Command ==> 1                             Scroll CSR

View DNET424.ADLAB.VIEW(USRSCN)           Segment TOTUSE
Template DNET424.ADLAB.TEMPLATE(USRSCN)

----- Criteria - Enter 1 to specify expression by field -----
1 Sel: _____ +
Offset 0

Cmd Seq SHE Ref  Field Name                Picture  Type Start Length
-----
          **** Top of data ****
          1 1 SEGB-TOTAL-USAGE                AN      1      80
          2K 2 USAGE-PERIOD                  AN      1      6
          3K 3 USAGE-YEAR                    X(4)    AN      1      4
          4K 3 USAGE-MONTH                  X(2)    AN      5      2
          5  2 ACCOUNT-INV-SEQ                X        AN      7      1
          6  2 ACCOUNT-TOTAL-USAGE            9(9)V99  PD      8      6
          7  2 CURRENT-PERIOD-AMT-DUE        9(7)V99  PD     14      5
          _____ AN      19      62

F1=Help  F2=Split  F3=Exit  F4=Expand  F5=RFind  F7=Up  F
F9=Swap  F10=Left  F11=Right F12=Cancel

```

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That displayed the view panel, with the segment layout for the TOTUSE segment. From here, you can specify selection criteria. There are two ways to specify criteria. First, you can enter criteria in freeform format on the line labeled “Sel” (for selection). But an easier way is to enter 1 on the command line, and press Enter.



You can specify selection criteria "By Field"

```
Process  Options  Help
-----  -
FM/IMS           Field Selection Criteria           Line 1 of 8
Command ==> _____ Scroll CSR

Cmd Con ( Field Name                               Op Value )
<-> - <---+-----1-----+-----2-----+-----3-----> <-> <---+-----1-----+-----2----->
*** **** Top of data ****
___ _ SEGB-TOTAL-USAGE                               ___
___ AND _ USAGE-PERIOD                               ___
___ AND _ USAGE-YEAR                                 ___
___ AND _ USAGE-MONTH                               CO '03','04'
___ AND _ ACCOUNT-INV-SEQ                             = 'Z'
___ AND _ ACCOUNT-TOTAL-USAGE                         > 1000
___ AND _ CURRENT-PERIOD-AMT-DUE                       ___
___ AND _ COMPLAINTS                                   ___
*** **** End of data ****

F1=Help  F4=CRetriev  F5=RFind  F6=RunTemp
F7=Up    F8=Down    F9=Swap   F10=Left  F11=Right F12=Cancel
```

This selection criteria searches for the correct data within the TOTUSE segment.

Tip: These lines are scrollable if you need more room.

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That displayed the Field Selection Criteria panel. On this panel, the fields in the segment are displayed, and you can specify criteria for each field. Selection criteria was entered here to select TOTUSE segments where the USAGE-MONTH field contains either three or four, and the ACCOUNT-INV-SEQ field is equal to Z, and the ACCOUNT-TOTAL-USAGE field is greater than 1000.



You can specify selection criteria "By Field"

Process Options Help

FM/IMS Field Selection Criteria Line 1 of 8
 Command ==> Scroll CSR

Cmd	Con	Field	Op	Value
<->	<->		<->	
***	****	To		
		SE		
	AND	US		
	AND	US		
	AND	US		
	AND	AC		
	AND	AC		
	AND	CU		
	AND	CO		
***	****	Er		

Examples of Operators:

- = Equal
- =, \=, ><, <> Not equal
- < Less than
- <, \< Not less than
- > Greater than
- >, \> Not greater than
- <= Less or equal
- >= Greater or equal
- RG Range
- NR Not in Range
- CO Contains
- CO Does not contain
- NC Numeric contains
- NC Not numeric
- contain

F1=Help F7=Up

=CRetrieve F5=RFind F6=RunTemp
 0=Left F11=Right F12=Cancel

PF3

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Remember that you can get help about panels and fields with a PF1 key. Such as to see a list of comparison operators you can use on this panel. Press PF3 to continue.



The freeform criteria syntax is automatically generated

Process Options Help

Tip: you can use the **TPRINT** command to print the layout

FM/IMS View : Segment Layout Line 1 of 8
Command ==> Scroll CSR

View DNET424.ADLAB.VIEW(USRSCN) Segment TOTUSE
Template DNET424.ADLAB.TEMPLATE(USRSCN)

----- Criteria - Enter 1 to specify expression by field -----
1 Sel: IFLD('#4','CO','03','04') & #5 = 'Z' & #6 > 1000 +
Offset 0

Cmd	Seq	SHE	Ref	Field Name	Picture	Type	Start	Length
---	---			**** Top of data ****				
---	---		1	1 SEGB-TOTAL-USAGE		AN	1	80
---	---		2K	2 USAGE-PERIOD		AN	1	6
---	---		3K	3 USAGE-YEAR	X(4)	AN	1	4
---	---		4K	3 USAGE-MONTH	X(2)	AN	5	2
---	---		5	2 ACCOUNT-INV-SEQ	X	AN	7	1
---	---		6	2 ACCOUNT-TOTAL-USAGE	9(9)V99	PD	8	6
---	---		7	2 CURRENT-PERIOD-AMT-DUE	9(7)V99	PD	14	5

62

If you prefer, you can enter freeform criteria like this without using the "By Field" selection panel.

PF3

F1=Help F2=Split F3=Exit F4=Expand F5=RFind F7=Up F8=Down
F9=Swap F10=Left F11=Right F12=Cancel

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That returned to the view segment layout panel. Notice that the freeform criteria was filled in automatically. Press PF3 to continue.

Position in the database

Process Options Help

FM/IMS Edit : Database Positioning

Command ==> _____ Scroll CSR

Subsystem IMSB Database USRSCN Key sequence Format TABL

View C DNET424.ADLAB.VIEW(USRSCN) Key

Cmd	SXE	Level	Segment	Description	len	Key value
s	SX	1	CUSTADDR		10	2111111111
	XE	2	TOTUSE		6	.....
		3	PRMUSE		8	.....
		3	OFFUSE		8	.....
		4	OFFDTL		8	.....
		2	BALDUE		6	.....
		3	BALHIST		6	.....

**** End of data ****

Line commands

E Edit the view

X Select/Clear segment

K Key panel

S Select for positioning

Enter

F1=Help F2=Split F3=Exit F4=Retrieve F5=Key > F7=B
F8=Forward F9=Swap F10=Actions F12=retrieve

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Now selection criteria was specified for the TOTUSE segment. Notice that an E is shown in the SXE column for the TOTUSE segment. The E indicates that selection criteria has been edited. A segment is selected for positioning, and Enter is pressed.



Only selected segments are displayed

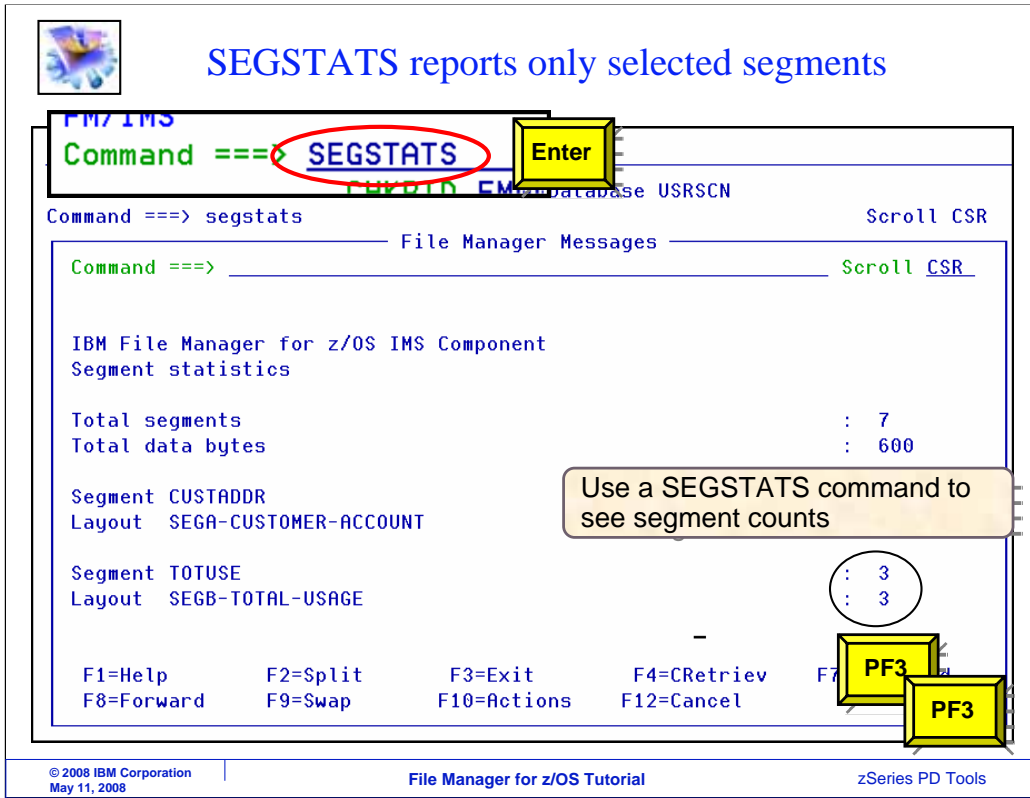
```
Process  Options  Help
-----
FM/IMS                      Edit : IMS Database USRSCN
Command ==>                 Scroll CSR
                             CHKPID FM000001 Autosave ON SHOW SUP ON Scope DB Format TABL
                             SEGA-ACCOUNT-NUM SEGA-CUSTOMER-PHONE-NB SEGA-CUSTOMER-NAME
Cmd Level Segment          #2          #3          #4          +
                             AN 1:10          AN 11:10          AN 21:30
                             <---+---->          <---+---->          <---+----1----+---
                             **** Top of window ****
___ 1  CUSTADDR 2111111111          8133249846          JOAN SMITH
___ 2  TOTUSE  Key=200303
___ 1  CUSTADDR 9983874923          3273325564          Joan B. OONE
___ 2  TOTUSE  Key=200303
___ 1  CUSTADDR 9993874923          3273325564          DANNY B. OONE 2
___ 2  TOTUSE  Key=200303
                             **** End of database ****
```

Only the TOTUSE segments meeting the View criteria, and associated segments are shown.

```
F1=Help    F2=Format  F3=Exit    F4=CRetriev  F5=RFind    F6=RChange
F7=Up      F8=Down    F9=Swap    F10=Left    F11=Right   F12=Retrieve
```

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The editor is displayed. Notice that only the selected segment types, CUSTADDR and TOTUSE are shown. Also notice that only the TOTUSE segments that match the selection criteria are shown.



You can use the SEGSTATS command to get a count of how many segments meet your selection criteria. In this example, only three of the TOTUSE segments met the selection criteria. PF3 is pressed a couple of times to return to the database positioning panel.



Clear a segment type

```
Process  Options  Help
-----
FM/IMS                               Edit : Database Positioning
Command ==> _____ Scroll CSR

Subsystem IMSB Database USRSCN      Key sequence      Format TABL
View C      DNET424.ADLAB.VIEW(USRSCN)  Key
Cmd  SXE Level  Segment  Description  len  Key value
---  ---  ---  ---  ---  ---
  X  SX  1      CUSTADDR  10  2111111111
  X  XE  2      TOTUSE    6   .....
  X  XE  3      PRMUSE    8   .....
  X  XE  3      OFFUSE    8   .....
  X  XE  4      OFFDTL    8   .....
  X  XE  2      BALDUE    6   .....
  X  XE  3      BALHIST   6   .....
**** End of data ****
```

X turns segments on or off (it is a toggle)

Enter

F1=Help F2=Split F3=Exit F4=CRetrie^v F5=Key >= F7=Backward
F8=Forward F9=Swap F10=actions F12=retrieve

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An X line command is used to turn off the display of TOTUSE segments. Enter.



Position in the database

```
Process  Options  Help
-----
FM/IMS          Edit : Database Positioning
Command ==> _____ Scroll CSR

Subsystem IMSB Database USRSCN Key sequence Format TABL
View C      DNET424.ADLAB.VIEW(USRSCN) Key
Cmd SXE Level Segment Description len Key value
s SX 1      CUSTADDR          10 2111111111
  E 2      TOTUSE              6  .....
  3      PRMUSE              8  .....
  3      OFFUSE              8  .....
  4      OFFDTL              8  .....
  2      BALDUE              6  .....
  3      BALHIST              6  .....
**** End of data ****
```

Enter

F1=Help F2=Split F3=Exit F4=CRetrieve F5=Key >= F7=Backward
F8=Forward F9=Swap F10=Actions F12=retrieve

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And an S command is used to position and display the editor. Enter.



Only selected segments are displayed

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database USRSCN
Command ==>                          Scroll CSR
          CHKPID FM000001 Autosave ON SHOW SUP ON Scope DB Format TABL
          SEGA-ACCOUNT-NUM SEGA-CUSTOMER-PHONE-NB SEGA-CUSTOMER-NAME
Cmd Level Segment #2 #3 #4 +
          AN 1:10 AN 11:10 AN 21:30
          <---+----> <---+----> <---+----1----+--->
          **** Top of window ****
  1 CUSTADDR 2111111111 8133249846 JOAN SMITH
  1 CUSTADDR 9983874923 3273325564 Joan B. OONE
  1 CUSTADDR 9993874923 3273325564 DANNY B. OONE 2
          **** End of database ****

```

PF3

Not all of the roots are displayed. Why not? Selection criteria are still in effect in a dependent segment.

RChange
Retrieve

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Now only the root segments are displayed. In this example, no selection criteria was entered in the root segment, but not all root segments are being displayed. Why not? Remember that there are still selection criteria specified in the TOTUSE segment. So only root segments above the selected TOTUSE segments are selected.



File Manager IMS training: sections

- Using a view
 - Selecting segment types to display
 - Selecting segments to display based on data content
 - Save a view
 - Customize how data is displayed
 - Use edit or browse to format and generate a report



Next you will see how you can save your view in a file, so you can use it again.

Save changes to view on return

Process Options Help

FM/IMS Edit : View Specification

Command ==> _____

Subsystem IMSA Database USRSCN

Template:
Data set name . . . ADLAB.TEMPLATE

View:
Data set name . . . ADLAB.VIEW
Member USRSCN

Processing Options:
View usage
1. New
2. Existing
3. None

Enter "/" to select option
/ Save view on return

Save the view on return, if you make selection or formatting changes

F1=Help F2=Split F3=Exit F4=CR
F9=Swap F10=Actions F12=Cancel

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There are a couple of ways to save the changes you make to a view. First, when you select the “use view” option on the Editor or Browser view specification panel, then you will be prompted to save the view when you return. Do not forget to turn this option on if you want your view to be saved automatically.



Exiting the browser or editor

```
Process  Options  Help
-----
FM/IMS          Edit : Database Positioning
Command ==> _____ Scroll CSR

Subsystem IMSB Database USRSCN Key sequence Format TABL
View C DNET424.ADLAB.VIEW(USRSCN) Key
Cmd SXE Level Segment Description len Key value
--- SX 1 CUSTADDR 10 2111111111
--- XE 2 TOTUSE 6 .....
--- 3 PRMUSE 8 .....
--- 3 OFFUSE 8 .....
--- 4 OFFDTL 8 .....
--- 2 BALDUE 6 .....
--- 3 BALHIST 6 .....
**** End of data ****
```


Changes were made to the view

F1=Help F2=Split F3=Exit F4=CRetriev F5=Key >= F7=B
F8=Forward F9=Swap F10=Actions F12=retrieve

PF3

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Say that you have made some changes to your view. For example, in this case certain segments were selected and selection criteria was specified. When PF3 is pressed to exit...



Saving the view

View Save

Command ==> _____

—
F
C


S You have modified the view you are using. To save this view enter a
V data set and member name below and press ENTER.
C

To cancel the save and return to Database Positioning,
press: PF12/CANCEL .
To discard the changes and return to view specification,
press PF3/EXIT .

Data set name ADLAB.VIEW

Member . . USRSCN

The View name can be any name. In this case, it is the same name as the DBDLIB member (template name). You can have many views for a single template.



F1=Help F9=Swap F12=Cancel

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If it is an existing view, it is updated in place. If it is a new view, this panel is displayed to let you save it in a file. A view can be saved as a PDS member. If you save it, then of course you can use it again. Type in a file name, and press Enter.



Saving the view

Process Options Help

FM/IMS Edit : View Specification View saved

Command ==> _____

Subsystem IMSA Database USRSCN

Template: View saved

Data set name ADLAB.TEMPLATE _____

View:

Data set name ADLAB.VIEW _____

Member USRSCN _____

Processing Options:

View usage Enter "/" to select option

2 1. New / Save view on return

2. Existing

3. None

F1=Help F2=Split F3=Exit F4=CRetriev F7=Backward F8=Forward

F9=Swap F10=Actions F12=Cancel

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The view was saved.



Exit from the Positioning panel

```
Process  Options  Help
-----  -
FM/IMS                               Edit : IMS Database USRSCN
Command ==> vsave                               Scroll CSR
CHKPID FM000001 Autosave ON SHOW SUP ON Scope DB Format TABL
SEGA-ACCOUNT-NUM SEGA-CUSTOMER-PHONE-NB SEGA-CUSTOMER-NAME
Cmd Level Segment #2 #3 #4 +
AN 1:10 AN 11:10 AN 21:30
<---+----> <---+----> <---+----1----+--->
**** Top of window ****
 1 CUSTADDR 2111111111 8133249846 JOAN SMITH
 1 CUSTADDR 9983874923 3273325564 Joan B. OONE
 1 CUSTADDR 9993874923 3273325564 DANNY B. OONE 2
**** End of database ****
```

Note: You can save the view at any time with the **VSAVE** command.

Enter

```
F1=Help    F2=Format  F3=Exit    F4=CRetriev F5=RFind    F6=RChange
F7=Up      F8=Down    F9=Swap    F10=Left   F11=Right   F12=Retrieve
```

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There is another way to save a view, the VSAVE command. It works while you are still in the middle of using the editor or browser, and you have made changes to the view. Type VSAVE on the command line, and Enter.



Save a view in a library of your choosing

View Save

Command ==> _____

View libraries are PDS or PDS data sets with FB 80 attributes.

You have modified the view you are using. To save this view enter a data set and member name below and press ENTER.

To cancel the save and return to Database Positioning, press: PF12/CANCEL .
To discard the changes and return to view specification, press PF3/EXIT .

Data set name ADLAB.VIEW
Member . . . USRSCN

If the "Save view on return" was selected, and the View changed, this panel is presented.

Enter

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

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And you are prompted to provide the name of a file where you can save the view. You can use this method to save a new view, and you can also use it to begin with an existing view, and then save a modified version of it with a different name. Enter.



The view was saved

Process Options Help

FM/IMS Edit : View Specification View saved

Command ==> _____

Subsystem IMSB Database USRSCN

Template:
Data set name . . . ADLAB.TEMPLATE _____

View:
Data set name . . . ADLAB.VIEW _____
Member USRSCN _____

Processing Options:
View usage Enter "/" to select option
2 1. New / Save view on return
2. Existing
3. None

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

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And the view is saved.



File Manager IMS training: sections


- Using a view
 - Selecting segment types to display
 - Selecting segments to display based on data content
 - Save a view
 - Customize how data is displayed
 - Use edit or browse to format and generate a report



Next you will see how you can use a view to customize the way that data is displayed in the browser or editor.



You can use a view that was created previously

Process	Options	Help
FM/IMS	Edit : View Specification	View saved
Command ==>	_____	
Subsystem IMSB	Database USRSCN	
Template:		
Data set name . . .	ADLAB.TEMPLATE _____	
View:		
Data set name . . .	ADLAB.VIEW _____	
Member	USRSCN _____	
Processing Options:		
View usage	Enter "/" to select option	
2 1. New	/ Save view on return	
2. Existing		
3. None		
		
F1=Help	F2=Split	F3=Exit
F9=Swap	F10=Actions	F12=Cancel
F4=CRetriev	F7=Backward	F8=Forward

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In this example, a view that was created earlier is reused. Enter.

Edit the view

Process Options Help

FM/IMS Edit : Database Positioning

Command ==> _____ Scroll CSR

Subsystem IMSB Database USRSCN Key sequence Format TABL

View DNET424.ADLAB.VIEW(USRSCN) Key

Cmd	SXE	Level	Segment	Description	len	Key value
e	SX	1	CUSTADDR		10	0003874923
	E	2	TOTUSE		6	.....
		3	PRMUSE		8	.....
		3	OFFUSE		8	.....
		4	OFFDTL		8	.....
		2	BALDUE		6	.....
		3	BALHIST		6	.....

**** End of data ****

Line Commands

E Edit the view

X Select/Clear segment

K Key panel

S Select for positioning

Enter

F1=Help F2=Split F3=Exit F4=CRetrieval F5=Key > F7=B
F8=Forward F9=Swap F10=Actions F12=retrieve

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On the positioning panel, an E line command is entered next to the CUSTADDR segment type. Enter.

You can select which fields to display

By default, all elementary fields are selected

Process Options Help

FM/IMS View : Segment Layout Line 1 of 5
 Command ==> Scroll CSR

View Temporary Segment CUSTADDR
 Template DNET074.ADLAB.TEMPLATE (USRSCN)
 ----- Criteria - Enter 1 to specify expression by field -----
 1 Sel: _____ +
 Offset 0

Cmd	Seq	SHE	Ref	Field Name	Picture	Type	Start	Length
				**** Top of data ****				
	1		1	SEGA-CUSTOMER		AN	1	90
S			2K	2 SEGA-ACCOUNT	X(10)	AN	1	10
S			3	2 SEGA-CUSTOMER	X(10)	AN	11	10
S			4	2 SEGA-CUSTOMER-NAME	X(30)	AN	21	30
	5		2	SEGA-CUSTOMER-ADDRESS	X(40)	AN	51	40
				**** End of data ****				

"Select" line commands:
SS - Block of Selected
SS - End of above Block
S* - Select this line and all subsequent lines
S3 - Select three lines

F1=Help F9=Swap F8=Enter

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On the view segment layout panel, you can select fields to be displayed. By default, all elementary data items will be displayed, but you can select fields with an S line command. Here, three fields are selected. Enter.

You can select which fields to display

```

Process  Options  Help
FM/IMS                                     View : Segment Layout                               Line 1 of 5
Command ==>                               Scroll CSR
Hold a field                               Segment CUSTADDR
Template DNET074.ADLAB.TEMPLATE(USRSCN)
----- Criteria - Enter 1 to specify expression by field -----
1 Sel: Identify Sequence
Offset 0
Cmd Seq SHE Ref Field Name                Picture  Type Start Length
**** Top of data ****
H  1  S    1  SEGA-CUSTOMER-ACCOUNT
  3  S    2K 2  SEGA-ACCOUNT-NUMBER          X(10)   AN    1    10
  3  S    3  2  SEGA-CUSTOMER-PHONE-NB      X(10)   AN   11    10
  2  S    4  2  SEGA-CUSTOMER-NAME          X(30)   AN   21    30
  2  S    5  2  SEGA-CUSTOMER-ADDRESS      X(40)   AN   51    40
**** End of data ****

F1=Help  F2=Split  F3=Exit  F4=Expand  F5=RFind  F7=Up    F8=Enter
F9=Swap  F10=Left  F11=Right F12=Cancel

```

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Notice that the selected fields are marked with S characters. You can also hold a field with an H line command, as shown. In the column labeled Seq (for sequence) you can control the sequence in which fields are displayed. Sequence numbers are specified. Enter.



Fields, order, and held fields were customized

Process Options Help

FM/IMS View : Segment Layout Line 1 of 5
Command ==> Scroll CSR

View Temporary Segment CUSTADDR
Template DNET074.ADLAB.TEMPLATE(USRSCN)
----- Criteria - Enter 1 to specify expression by field -----
1 Sel: _____ +
Offset 0

Cmd	Seq	SHE	Ref	Field Name	Picture	Type	Start	Length
				**** Top of data ****				
	1		1	SEGA-CUSTOMER-ACCOUNT		AN	1	90
█	1	S	2K	SEGA-ACCOUNT-NUMBER	X(10)	AN	1	10
	3	S	3	SEGA-CUSTOMER-PHONE-NB	X(10)	AN	11	10
	2	S	4	SEGA-CUSTOMER-NAME	X(30)	AN	21	30
			5	SEGA-CUSTOMER-ADDRESS	X(40)	AN	51	40
				**** End of data ****				

S indicates field is selected
H indicates field is held

PF3

F1=Help F2=Split F3= F7=Up F8=Down
F9=Swap F10=Left F11=Right F12=Cancel

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Now only certain fields are selected, their order has been changed, and one field is held. PF3 to exit the segment layout panel.



Turn on a segment, and position in the database

```
Process  Options  Help
-----
FM/IMS          Edit : Database Positioning      Must read all roots
Command ==> _____ Scroll CSR

Subsystem IMSB Database USRSCN   Key sequence      Format TABL
View C      DNET424.ADLAB.VIEW(USRSCN)   Key
Cmd SXE Level  Segment  Description  len  Key value
s  SX  1      CUSTADDR  _____  10  0003874923
   E  2      TOTUSE    _____  6   _____
   3      PRMUSE    _____  8   _____
   3      OFFUSE    _____  8   _____
   4      OFFDTL    _____  8   _____
   2      BALDUE    _____  6   _____
   3      BALHIST    _____  6   _____
**** End of data ****
```

Enter

F1=Help F2=Split F3=Exit F4=CRetriev F5=Key >= F7=Backward
F8=Forward F9=Swap F10=Actions F12=retrieve

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The view has been modified with formatting changes. An S line command is used to position to a segment and display the editor. Enter.



Only selected fields are displayed

```
Process  Options  Help
-----
FM/IMS                      Edit : IMS Database USRSCN
Command ==>                 Scroll CSR
                             Format TABL
                             SEGA-ACCOUNT-NUM SEGA-CUSTOMER-NAME SEGA-CUSTO
Cmd Level Segment #2 #4 #3 +
AN 1:10           AN 21:30 AN 11:10
<---+--->        <---+---1---+---2---+---> <---+--->
**** Top of window ****
 1  CUSTADDR 2111111111 JOAN SMITH 8133249846
 1  CUSTADDR 9983874923 Joan B. OONE 3273325564
 1  CUSTADDR 9993874923 DANNY B. OONE 3273325564
**** End of database ****
```

Field presentation sequence changed

PF11

F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Retrieve

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Here is the editor, and the formatting changes can be seen. Notice that the order of the columns has been changed. PF11 is pressed to scroll to the right.



Only selected fields are displayed

```
Process  Options  Help
-----
FM/IMS                               Edit : IMS Database USRSCN
Command ==>  CHKPID FM000001 Autosave ON SHOW SUP OFF Scope DB Format TABL Scroll CSR
              SEGA-ACCOUNT-NUM SEGA-CUSTOMER-PHONE-NB
Cmd Level Segment  #2 #3
                  AN 1:10 AN 11:10
                  <---+----> <---+---->
                  **** Top of window ****
   1  CUSTADDR 2111111111 8133249846
   1  CUSTADDR 9983874923 3273325564
   1  CUSTADDR 9993874923 3273325564
                  **** End of database ****

F1=Help  F2=Format  F3=Exit  F4=CRetriev  F5=RFind  F6=RChange
F7=Up    F8=Down    F9=Swap  F10=Left   F11=Right F12=Retrieve
```

A held field will stay when you scroll left and right

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Notice that only the selected fields are shown. Also notice that the held field remained on the screen. Held fields stay when you scroll left and right.

That is the end of this section, using File Manager IMS views.



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02