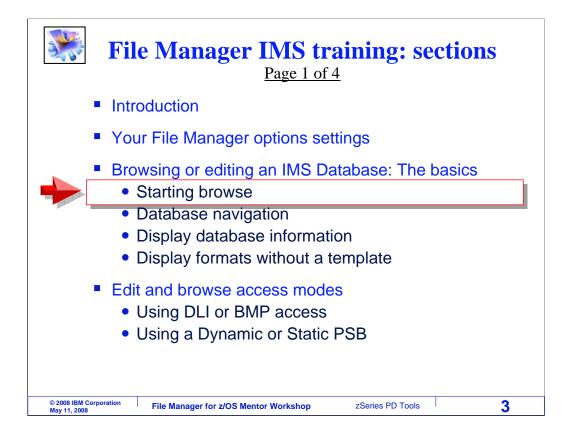


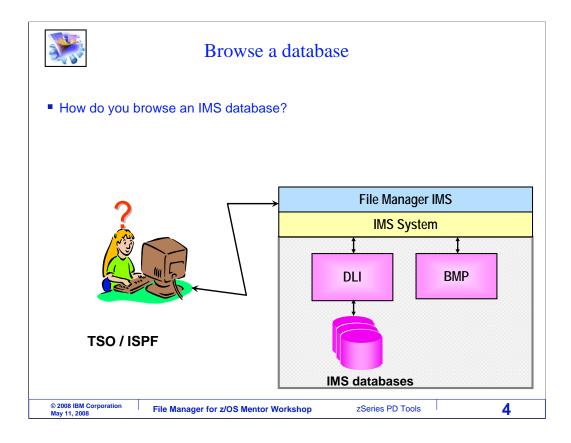
Welcome to the tutorial for the IMS feature of IBM's File Manager for z/OS, one of the IBM zSeries problem determination tools.

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© 2008 IBM Corporation May 11, 2008	File Manager for z/OS Tutorial	zSeries PD Tools

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



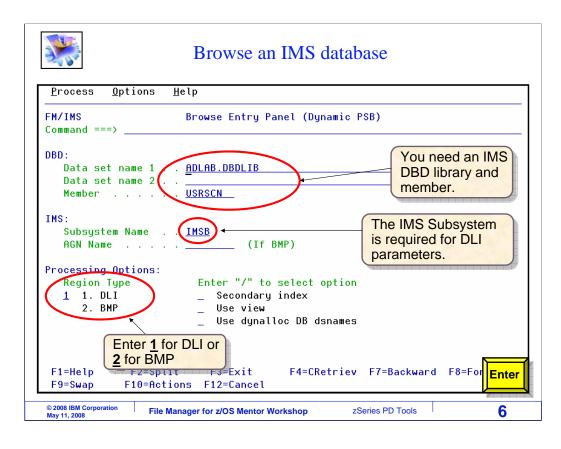
In this section, you will learn the basics of how to use the File Manager IMS editor and browser. Take this section to learn how to start the browser, how you can navigate to various segments in a database, how to get information about a database, and some of the display formats that are available.



Use File Manager IMS to edit or browse an IMS database. You can use these functions in TSO. It can also be used from CICS, provided the CICS region is customized with the File Manager CICS component.

	Browse a database		
<u>P</u> rocess <u>O</u>	ptions <u>H</u> elp		
FM/IMS Command ===6	Primary Option Menu		
0 Settings 1 Browse 2 Edit 3 Utilities 4 Templates X Exit		System ID Appl ID . Version . Terminal. Screen	: 8.1.0 : 3278A : 1 : 2007/10/22
F1=Help F9=Swap	F2=Split F3=Exit F4=CRetriev F F10=Actions F12=Cancel	7=Backward	F8=For Enter
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Here is the Primary Option panel. To get here, the person who installed File Manager on your system will have set up some menu options. If you are not sure how to get to File Manager IMS on your system, you might want to contact your systems programmer or help desk to find out. From the menu, Option 2 is Edit, and 1 is Browse. In this example, 1 is typed on the command line, and Enter is pressed.

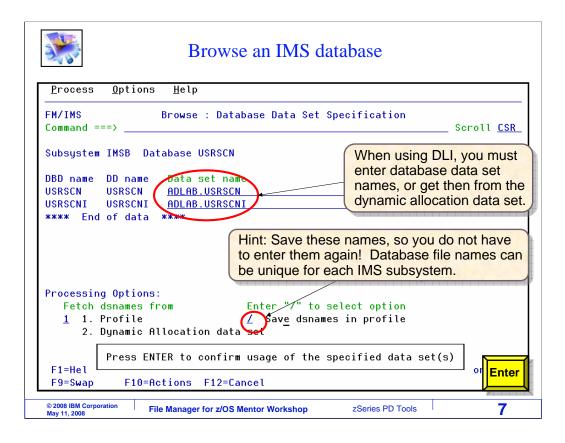


The browse entry panel is displayed.

To browse an IMS database, specify a database definition, or DBD. Enter the name of a library and member where the DBD for the database you want to access is stored. In this example, a DBD named USRSCN will be used. Notice that you can specify up to two DBD libraries.

Specify the Region Type. This will either be 1 for DLI or 2 for BMP. In this example, the database will be accessed in DLI mode. Also specify a subsystem name. IMS subsystem names are defined by the person who installs File Manager and by data base administrators.

Notice that the title shows "dynamic PSB". That is because the dynamic PSB option has been specified in the user options. File Manager will create a PSB automatically with access to all segments in the DBD. Press Enter to continue.

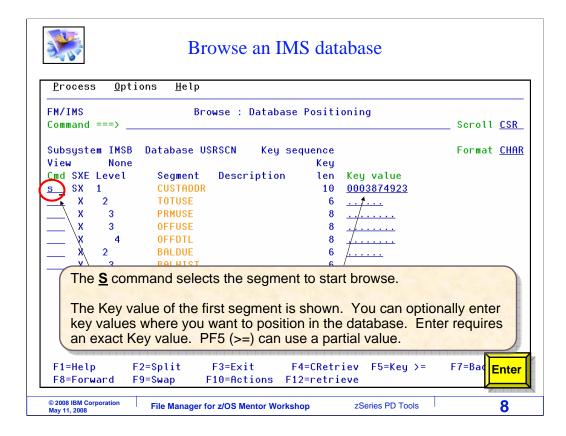


When you are in DLI mode, this panel is displayed next, the data base data set specification panel. You must enter the names of the database data set names. The number of files needed depends on what is defined in the DBD.

On some systems, file names may be defined in something called a "dynamic allocation data set". If you want to retrieve the file names from dynamic allocation data set, you can select option 2 in the "fetch dsnames from" option, and press Enter.

Select the "save dsnames in profile" option to save the names you specify into your profile. That can be important, because then you will not have to retype the same names the next time you use the same DBD. So be sure to select the "save dsnames" option unless you intend to retype the file names every time.

Press Enter to continue.



Next, the Database Positioning panel is displayed. This is used to determine where the browser will initially position in the database. You can position to any segment type, and you can optionally specify a key value.

You can type key values for the path to the segment, starting with the root, then select the segment type with an S line command. There are two ways to position to a segment based on a key value. First, if you press Enter, File Manager searches for a segment that is an exact match for the key value you entered.

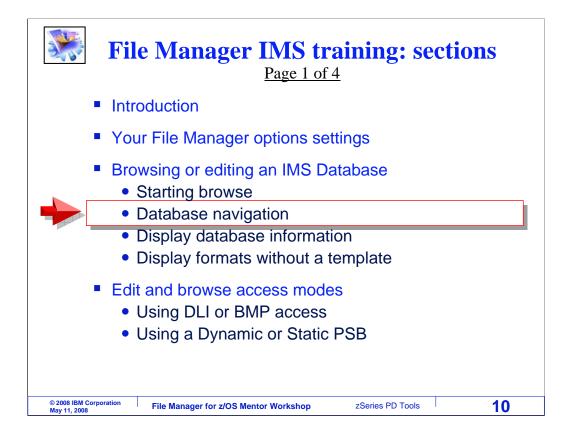
The other way is to use PF5. When you press PF5, File Manager searches for a segment key that is greater than or equal to the value you specified.

The key value of the first root in the database can be automatically filled in, as in this example. In this database, root segments are called CUSTADDR. To navigate to the first root segment, S is typed in the prefix area for the CUSTADDR segment, and Enter is pressed.

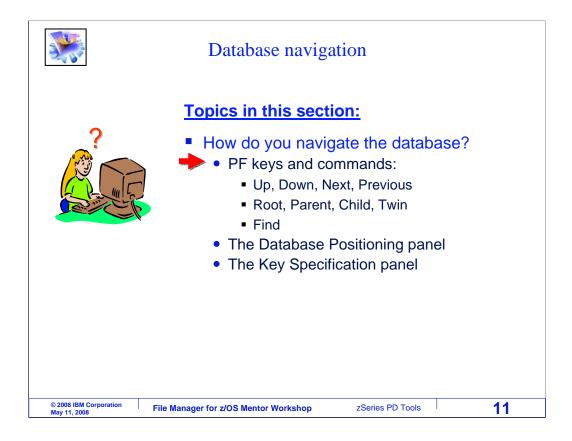
		Browse an IMS database
<u>P</u> rocess	<u>O</u> ptions	Help
FM/IMS Command =	==>	Browse : IMS Database USRSCN Scroll <u>CSR</u> Scope DB Col <u>1</u> Format <u>CHA</u>
Cmd Level	Segment	45+
1 2 3 3 3 3 3 3 3 3 3 3 3 3 3	CUSTADDR TOTUSE PRMUSE PRMUSE PRMUSE PRMUSE PRMUSE PRMUSE PRMUSE PRMUSE PRMUSE PRMUSE PRMUSE PRMUSE	****         Top of window         ****           00038749233273325564BILL         B.         UFFALO         666         PRA           2003030100000002000000070000         2003030200000011000000035000         You are positioned to         the segment type and           2003030500000011000000035000         200303050000001500000052500         You are positioned to         the segment type and           2003030500000011000000035000         200303060000001000000052500         You are positioned to         the segment type and           20030307000000.0200000070000         20030307000000.0200000070000         You are positioned to         the segment type and           20030307000000.02000000070000         20030307000000.02000000070000         You are positioned to         the segment type and           20030307000000.0200000000000000000000000
F1=Help F7=Up	F2=Fo F8=Do	rmat F3=Exit F4=CRetriev F5=RFind F6=RChange wn F9=Swap F10=Left F11=Right F12=retrieve

And now the browser is displayed. And it positioned to the root segment based on the key value from the last screen.

Each data line shows one segment. Notice the "level" column. Root segments are denoted by level 1. Children of root segments are denoted with a 2. Level 3 segments are children of level 2 segments, and so on.



Next, you will see how to navigate the segments in a database.



First, the basic navigation PF keys and commands will be presented.

~0.		Down command (PF8)	
<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp	
FM/IMS		Browse : IMS Database USRSCN	
Command =	==>		Scroll <u>CSR</u>
		Scope DB Col <u>1</u>	Format <u>CHAR</u>
Cmd Level	Segment	344	5+
		**** Top of window ****	
1	CUSTADDR	00038749233273325564BILL B. UFFAL0	666 PRAR
2	TOTUSE	200303MA	
3	PRMUSE	20030301000000200000070000	
3	PRMUSE	20030302000000100000035000	
3	PRMUSE	20030303000000000000003500	
3	PRMUSE	20030305000000015690000052500 The Level colu	
3	PRMUSE	2003030600000001000000035000 a segment's p	osition.
3 3	PRMUSE	20030307000000.0200000007000	
3	PRMUSE	20030308000000200000070000 200303090000002500000122500	ot segment.
3	PRMUSE	20030310000000100000035000	
3	PRMUSE	2003031100000001500000052500	
3	PRMUSE	20030312000000100000035000	
3	PRMUSE	200303130000000200000070000	
3	PRMUSE	2003031400000001100000038500	
F1=Help	F2=Fo		F6=RCha PF8
F7=Up	F8=Do	in the database.	12=retr

PF8 is the "down" key. It performs GET NEXT operations and scrolls down through segments. PF8 is pressed.

<b>*</b>		Resu	lt of PF8
<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp	
FM/IMS		Browse	: IMS Database USRSCN
Command =	==>		Scroll <u>CSR</u>
	_		Scope DB Col <u>1</u> Format <u>CHAF</u>
Cmd Level	Segment	+	2+3+4+5+
3	PRMUSE	20030315000000	1200000041500
3	PRMUSE	20030316000000	1300000045500
3	PRMUSE	20030317000000	1400000049000
3	PRMUSE	20030318000000	
3	PRMUSE	20030319000000	200000070000
3	PRMUSE	20030320000000	
3	PRMUSE	20030321000000	DET (Up) corolle backward through the
3	PRMUSE	20030322000000	PF7 (Up) scrolls backward through the
3	PRMUSE	20030323000000	database.
3	PRMUSE	20030324000000	
3	PRMUSE	20030325000000	Tip: You can scroll up (after scrolling
3	PRMUSE	2003032600000	down) even if the database does not
3	PRMUSE	20030327000000	have backward pointers. File Manager
3	PRMUSE		
3	PRMUSE		maintains a memory buffer of previous
3	PRMUSE	2003033000000	segment keys.
F1=Help		rmat F3=Exit	PF7
F7=Up	F8=Do	wn F9=Swap	F10=Left F11=Right F12=retr
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That scrolled forward in the database. PF7 is the "up" key, and it scrolls backward.

Be aware that you may be able to scroll up in your database even if the database does not have backward pointers. This is a very helpful feature, and File Manager accomplishes it by maintaining a memory buffer of previous segment keys that you have already scrolled down through.

PF7 is pressed.

<b>*</b>		Result of PF7	
<u>P</u> rocess	<u>O</u> ptions	Help	
FM/IMS		Browse : IMS Database USRSCN	
Command =	==>		Scroll <u>CSR</u>
	_	Scope DB Col <u>1</u>	
Cmd Level	Segment		+5+
		**** Top of window ****	
1	CUSTADDR		666 PRAR
2	TOTUSE	200303MA	
3	PRMUSE	20030301000000200000070000	
3	PRMUSE	20030302000000100000035000	
3           3	PRMUSE	200303030000000 Examples of other scrollin	a commanda:
3	PRMUSE		ig commanus.
3	PRMUSE	2003030600000 <u>TOP</u>	
3	PRMUSE		e segment)
3	PRMUSE	2003030800000 <b>NEXT 10</b> (10	segments)
3	PRMUSE	2003030900000 NEXT OFFDTL (Go	to next
	PRMUSE	2003031000000	ment OFFDTL)
3 3	PRMUSE	2000001100000	incia of ( DTE)
3 3			
3 3	PRMUSE	2003031300000 PREV 20 2003031400000 PREV OFFICI	
		TREV OFFICE	
		An F9=Swap	
Fr-up	F0-D0		
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And that scrolled back up. Here are some of the commands that you can type on the command line to navigate. The TOP command positions to the top of the scrolling window. That means that it takes you back to the place where you initially positioned, but not necessarily the first root segment in the database.

NEXT commands scroll forward. You can specify a number, such as NEXT 10, to scroll forward 10 segments. You can specify a segment name to scroll forward to the next segment of that name.

PREV commands are similar to NEXT commands, but go up instead of down. The BOTTOM command navigates to the last logical segment in the database.

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp			
FM/IMS	$\sim$		Browse :	IMS Database USRSCN	
Command =:	= 🚺 <u>child</u>				Scroll <u>CSR</u>
				Scope DB Col <u>1</u>	Format <u>CHAR</u>
Cmd Level	Segment	+-	-	2+3+4	+5+
		****	Top of wi		
1	CUSTADDR			5564BILL B. UFFALO	666 PRAR
2	TOTUSE		МА		
3	PRMUSE			VOUDOOOTOOOO YOU Are pos	itioned to the
3	PRMUSE			00000035000 segment sh	own at the top.
3	PRMUSE				own at the top.
3	PRMUSE			50000052500	
3	PRMUSE		0600000001	The Child command take	es you to the
3	PRMUSE		07000000.(	first child of the current s	
3	PRMUSE		080000000		oginoni
3	PRMUSE		090000000	Option avamplas	
3	PRMUSE		100000000	Option examples:	I)
3	PRMUSE		110000000:	CHILD 10 (Tenth child	l)
3	PRMUSE		120000000:	CHILD FIRST	
3	PRMUSE		130000000	CHILD LAST	
3	PRMUSE		140000000	CHILD PRMUSE (segm	pent type)
F1=Help	F2=Fo	rmat	F3=Exit `	OTTLE TRACE	

You can use a CHILD command to position to a child of the current segment. The current segment is the one shown at the top. In this example, CHILD is typed on the command line, and Enter.

Process	s <u>O</u> ptions	<u>H</u> elp			
FM/IMS		Browse	: IMS Databas	e USRSCN	
Command	== twin				Scroll CSR
			Sco	pe DB Col 1	Format CHAI
Cmd Leve	el Segment	1	+2+		
2	TOTUSE	200303MA			
3	PRMUSE		02000000070000		
3	PRMUSE	2003030200000	0100000035000		
3	PRMUSE	20030303000000	0010000003500		
3	PRMUSE		01500000052500		
3	PRMUSE	2003030600000	Position afte	r the Child co	mmand.
3	PRMUSE	2003030700000	.0200000007000		
3	PRMUSE	2003030800000	02000000070000		
3	PRMUSE	20030309000000	0250000012250	The Twin co	mmand takes
3	PRMUSE	2003031000000	010000003500	you to the ne	
3	PRMUSE	20030311000000	0150000005250	you to the he	AL LWIII.
3	PRMUSE	2003031200000	010000003500	0.1	Same Parts
3	PRMUSE	2003031300000	0200000007000	Option exam	
3	PRMUSE	2003031400000	0110000003850	TWIN 10 (	Tenth twin)
3	PRMUSE	2003031500000	01200000041500		
3	PRMUSE	2003031600000	01300000045500		
F1=Help	b F2=Fo	ormat F3=Exit	F4=CRetr	iev F5=RFind	F6=RCha Ente
F7=Up	F8=Do	wn F9=Swap	F10=Left	F11=Right	F12=retr

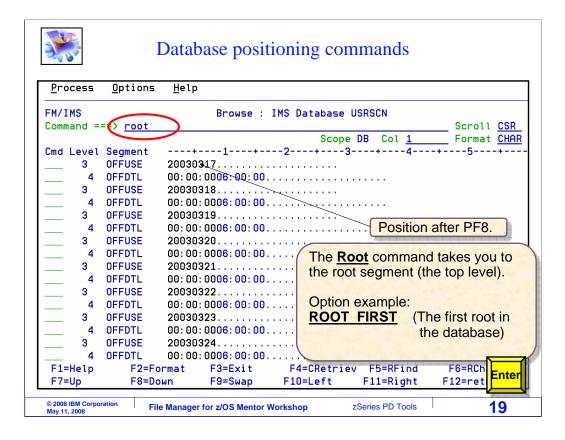
That positioned to the next child segment. You can use the TWIN command to position to a twin segment, or a segment of the same type as the current segment with the same parent. The TWIN command is entered.

	Ι	Database positioning commands
<u>P</u> rocess	<u>O</u> ptions	Help
FM/IMS		Browse : IMS Database USRSCN
Command =:	= 🖸 <u>parent</u>	Scroll <u>CSR</u>
		Scope DB Col <u>1</u> Format <u>CHA</u>
Cmd Level	Segment	45+
2	TOTUSE	200403MA
2	BALDUE	200303 VpYBAD CREDIT
3	BALHIST	200212PA\$\[}01312003.^}02282003}00000
3	BALHIST	200301PAST
3	BALHIST	200302PASTi. 02282003i. 0228200300000
3	BALHIST	200303CURR Position after the <b>Twin</b> command.
1	CUSTADDR	11111111117233455555555555555555 MAI
2	TOTUSE	200303Z**
3	PRMUSE	200303010000066685002176500 The Perent command take
3	OFFUSE	20030301x8
4	OFFDTL	00: 00: 0006: 00: 00m
4	OFFDTL	18: 32: 0521: 32: 05h (up one level).
2	BALDUE	200303ZZYGOOD
3	BALHIST	200302PAST
3	BALHIST	200303CURRe03/31/200330
1	CUSTADDR	2111111118133249846JOAN SMITH 565
F1=Help	F2=Fo	rmat F3=Exit F4=CRetriev F5=RFind F6=RCha <mark>Ente</mark>
F7=Up	F8=Do	wn F9=Swap F10=Left F11=Right F12=retr
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And the browser positioned to the next twin segment. Use a PARENT command to position to the parent of the current segment. The PARENT command is entered.

<u>P</u> rocess	<u>O</u> ptions	Help	
FM/IMS		Browse : IMS Database USRSCN	
Command =:	==>	So	croll <u>CSR</u>
		Scope DB Col <u>1</u> Fo	ormat <u>CHA</u>
Cmd Level	Segment		-5+
1	CUSTADDR	000387492332 <del>7</del> 3325564BILL B. UFFAL0	666 PRAF
2	TOTUSE	200303MA	
3	PRMUSE	200303010000002080000070000	
3	PRMUSE	200303020000001000 Position after the Parent	
3	PRMUSE	20030303000000001000 command.	
3	PRMUSE	200303050000001500000032500	
3	PRMUSE	20030306000000100000035000	
3	PRMUSE	20030307000000.020000007000	
3	PRMUSE	20030308000000200000070000	
3	PRMUSE	200303090000002500000122500	
3	PRMUSE	20030310000000100000035000	
3	PRMUSE	2003031100000001500000052500	
3	PRMUSE	20030312000000100000035000	
3	PRMUSE	20030313000000200000070000	
3	PRMUSE	2003031400000001100000038500	
3	PRMUSE	2003031500000001200000041500	
F1=Help F7=Up		ormat F3=Exit F4=CRetriev F5=RFind F6 wn F9=Swap F10=Left F11=Right F12=	

And the browser positioned to the parent segment. PF8 is pressed several times to scroll forward.



You can use a ROOT command to position to the root of the current segment. Use a ROOT FIRST command to position to the very first root segment in the database. The ROOT command is entered.

Pro	ocess	<u>O</u> ptions	<u>H</u> elp							
FM/1	IMS			Browse :	IMS Databas	e USRS	CN			
Com	mand ==	==>							Scroll	
							Col <u>1</u>			<u>CHAR</u>
Cmd		Segment		-	2+			+	-	+
	1	CUSTADDR			5564BILL B. U	JFFALO	í.		666	PRAR
	2	TOTUSE		MA						
	3	PRMUSE			000000070000					
	3	PRMUSE			00000035000					
	3	PRMUSE			100000003500	$\sim$				
	3	PRMUSE			500000052500	1	Position	afte	er the	
	3	PRMUSE			00000035000		Root co	mm	and.	
	3	PRMUSE			200000007000					
	3	PRMUSE			00000070000					
	3	PRMUSE			500000122500					
	3	PRMUSE	200303:	10000000010	00000035000					
	3	PRMUSE	200303	11000000015	00000052500					
	3	PRMUSE	200303	12000000010	00000035000					
	3	PRMUSE	200303	13000000020	00000070000			_		
	3	PRMUSE	200303	14000000011	100000038500			_		
	3	PRMUSE	200303	15000000012	200000041500				Γ	
F1=	=Help	F2=Fo	rmat	F3=Exit	F4=CRetr:	iev F	5=RFind	F	-6=RCha	PF7
F7=	=Up	F8=Do	wn	F9=Swap	F10=Left	F1	1=Right	F1	12=retr	

And the browser positioned to the root segment.

<b>*</b>	]	Database positioning commands	
<u>P</u> rocess	<u>O</u> ptions	Help	
FM/IMS		Browse : INS Database USRSCN	
Command =:	=🔨 twin;c	hild balhist last	Scroll <u>CSR</u>
		Scope DB Col <u>1</u>	Format CHAR
Cmd Level	Segment		-+5+
		**** Top of window ****	
1	CUSTADDR	00038749233273325564BILL B. UFFAL0	666 PRAR
2	TOTUSE	200303MA	
3	PRMUSE	20030301000000200000070000	
3	PRMUSE	20030302000000100000035000	
3	PRMUSE	20030303000000010000003500	
3	PRMUSE	200303050000001500000052500	
3	PRMUSE	20030306000000100000035000	
3	PRMUSE	20030307000000.020000007000	
3	PRMUSE	200303080000002000000070000	
3	PRMUSE	200303090000002500000122500	
3	PRMUSE	20030310000000100000035000	
3	PRMUSE	2003031100000001500000052500	
3	PRMUSE	20030312000000100000035000	
3 (	Time		
3	Tips:		
F1=Help		n stack commands with a semi-colon.	F6=RCI Enter
F7=Up	- Some of	commands can be abbreviated.	F12=rei
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Here is a tip. You can enter more than one command at a time by separating them with semi-colons. In this example, two commands are entered. Notice that the browser is currently positioned to a CUSTADDR segment, which is a root segment. The TWIN command will position to the next twin of the current segment, which will be the next root segment in the database. The CHILD BALHIST LAST command will then position to the last BALHIST segment under that root. Enter is pressed.

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp			
FM/IMS		Browse :	IMS Database US	SRSCN	
Command ==	==>				Scroll <u>CSR</u>
			Scope [	DB Col <u>1</u>	Scroll <u>CSR</u> Format <u>CHA</u>
Cmd Level	-	+1+		+4	-+5+
3	BALHIST	200303CURR			
1	CUSTADDR	21111111118133249			565 MAI
2	TOTUSE	200303Za		_	
3	PRMUSE	2003030100000020			
3	PRMUSE	2003030200000010		osition after	r commands.
3	PRMUSE	20030303000000001	00000003500		
3	PRMUSE	2003030400000005			
3	PRMUSE	2003030500000015			
3	PRMUSE	2003030600000010			
3	PRMUSE	2003030700000002			
3	PRMUSE	2003030800000020			
3	PRMUSE	2003030900000025		_	
3	PRMUSE	2003031000000010			
3	PRMUSE	2003031100000015			
3 3	PRMUSE	2003031200000010			
	PRMUSE	2003031300000020			50-D01
F1=Help F7=Up		rmat F3=Exit wn F9=Swap	F4=CRetriev		F6=RChange F12=retrieve

And the browser is repositioned to the requested segment.

*		File Manager - Find command
<u>P</u> rocess	<u>O</u> ptions	Help
FM/IMS		Browse : IMS Database USRSCN
Command ==	< <u>f smit</u>	
		Scope DB Col <u>1</u> Format <u>CHF</u>
Cmd Level	-	4
3	PRMUSE	20030310000000100000035000
3	PRMUSE	200303110000001500000052500
3	PRMUSE	20030312000000100000035000
3	PRMUSE	20030313000000200000070000
3	PRMUSE	2003031400000001100000038500 Use the <b>Find</b>
3	PRMUSE	2003031500000001200000041500 command to position
3	PRMUSE	
3	PRMUSE	2003031700000001400000049000 to a data value
3	PRMUSE	200303180000001500000052500
3	PRMUSE	20030319000000200000070000
1	CUSTADDR	99938749233273325564DANNY B. OONE 2 6 PRAR
2	TOTUSE	200303ZaTOO MUCH MONEY
3	PRMUSE	20030301000000200000070000
3	PRMUSE	20030302000000100000035000
3	PRMUSE	20030303000000010000003500
3	PRMUSE	200303040000000500000017500
F1=Help	F2=Fo	rmat F3=Exit F4=CRetriev F5=RFind F6=R0 <mark>Ente</mark>
F7=Up	F8=Do	wn F9=Swap F10=Left F11=Right F12=re
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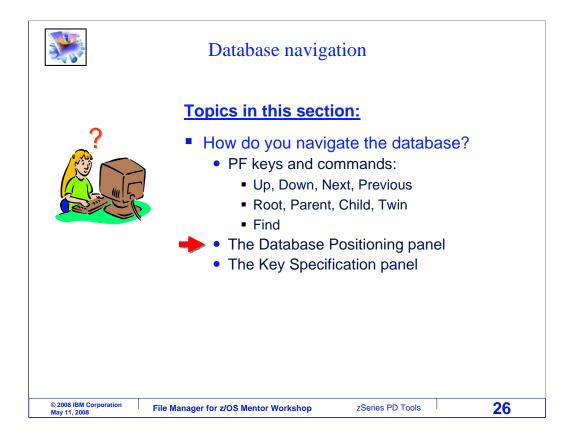
The FIND command in the File Manager IMS editor and browser is similar to the FIND command in the ISPF editor. You can use it to search for data in segments. By default, a FIND command will search forward in the database starting with the current segment. Here, the command "FIND SMITH FIRST" is entered. That will search for the character string "SMITH" starting at the beginning of the database. Enter.

		File Manager - Find command
<u>P</u> rocess	<u>O</u> ptions	Help
FM/IMS Command ==	==>	Browse : IMS Database USR Chars 'smith' found Scroll CSR
	·	Scope DB Col <u>1</u> Format <u>CHAR</u>
Cmd Level	Segment	+1+2+3+4+5+
1	CUSTADDR	1111111117233439938JOHN SMITH 555 MAIN
2	TOTUSE	200303Z*
3	PRMUSE	200303010000066685002176500
3	OFFUSE	20030301x8!
4	OFFDTL	00:00:0006:00:00
4	OFFDTL	18: 32: 0521: 32: 05h. command.
2	BALDUE	20030322YGOOD
3	BALHIST	200302PAST
3	BALHIST	200303CURRe03/31/200330
1	CUSTADDR	2111111118133249846JOAN SMITH 565 MAIN
2	TOTUSE	200303Za
3	PRMUSE	20030301000000200000070000
3	PRMUSE	20030302000000100000035000
3	PRMUSE	20030303000000010000003500
3	PRMUSE	20030304000000050000017500
3	PRMUSE	200303050000001500000052500
	F2=Fo	······································
F7=Up	F8=Do	wn F9=Swap F10=Left F11=Right F12=retrieve
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And the browser found the string and is positioned to the segment where the data was found.

		File Manage	er - Find com	mand	
Comma	nd ===>	<u>f jones al</u>	Enter		
FM/IMS		Browse	: IMS Database U		string(s) found
Command =	==>		Scope	DB Col 1	<u> </u>
Cmd Level	Segment	+	2+3-		
1		444444444461234			
2	TOTUSE	200303Z			000 1100
3	PRMUSE	200303010000006			
3	OFFUSE	20030301x			
4	OFFDTL		0m4	lanas fo	und two
4	OFFDTL		5hh.	Jones IO	
2	BALDUE	200303ZZ		times.	
3	BALHIST	200302PAST	Y02282003	0228200	3
3	BALHIST	200303CURR	e03/31/200330N	EW CUSTOMER	
1	CUSTADDR	666666666685788	83233TOM JONES		999 DEL
2	TOTUSE	200303 <mark>2</mark> <b>*</b>	*		
3	PRMUSE	20030301000006	2185002176500		
1	CUSTADDR	998387492332733	25564DANNY B. 00	NE	6 PRARIE
2	TOTUSE				
3	PRMUSE	20030301000000	2000000070000		
3	PRMUSE	20030302000000			
	F2=Fo	rmat F3=Exit	F4=CRetriev	F5=RFind	
F7=Up	F8=Do	wn F9=Swap	F10=Left	F11=Right	F12=retrieve
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You can use the ALL operand to search all segments in a database and get a count. Here, the command "FIND JONES ALL" is entered. All segments were searched, and a message is displayed showing how many times the string was found.



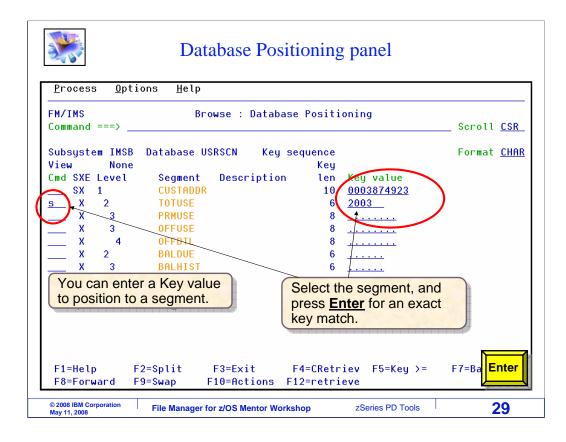
Next, you will see how to reposition in the database using the database positioning panel.

<u>P</u> roces	s <u>O</u> ptions	Help
- FM/IMS		Browse : IMS Database USRSCN
Command	===>	Scroll <u>CSR</u>
Commeria	<u> </u>	Scope DB Col <u>1</u> Format <u>CHA</u>
Cmd Lev	el Segment	+1+2+3+4+5+
		**** Top of window ****
1	CUSTADDR	00038749233273325564BILL B. UFFAL0 666 PRA
2	TOTUSE	200303MA
3	PRMUSE	20030301000000200000070000
3		20030 PF3 returns to the Database Positioning panel
3		
3		200303050000001500000052500
3		20030306000000100000035000
3		20030307000000.020000007000
3		20030308000000200000070000
3		200303090000002500000122500
3		20030310000000100000035000
3 3		2003031100000001500000052500 200303120000000100000035000
0	PRIUSE	200303130000002000000070000
3		200202140000001100000028500
3 3 F1=Hel	PRMUSE	2003031400000001100000038500 ormat F3=Exit F4=CRetriev F5=RFind F6=R0 <b>PF3</b>

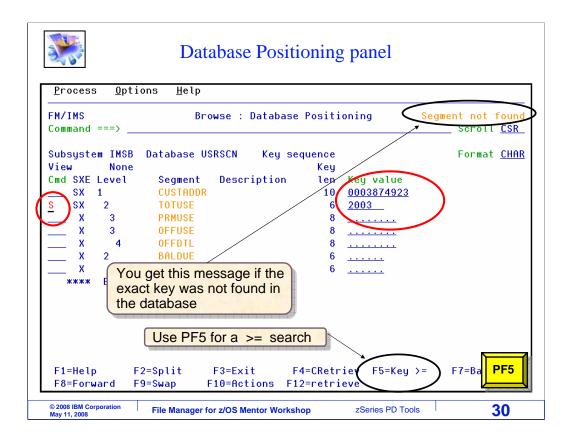
When in the editor or browser, PF3 returns to the database positioning panel.

FM/IMS Command =	==>	Bro	wse : Databa	ase Positi	oning	Scroll	<u>CSR</u>
Subsystem View Cmd SXE L SX 1	None evel	Database US Segment CUSTADDR	RSCN Key Descriptio	sequence Key n len 10	Key value 0003874923	Format	<u>CHAF</u>
	2 3 3	TOTUSE PRMUSE OFFUSE		6 8 8	<u></u>		
<u> </u>	4 2 3	OFFDTL BALDUE BALHIST		8 6 6	<u></u>		
	•	data ****	The Key is displa	value of	the current seg	ment	

You may recall that when the browser was started, this panel, the database positioning panel, was displayed. When you exit the browser it is displayed again. Notice that the key value of the current segment is displayed.



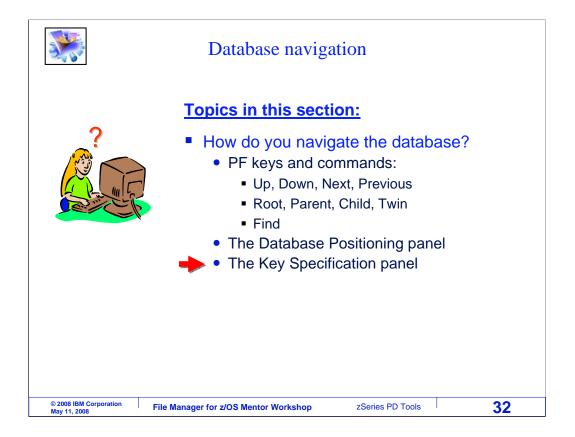
There are two ways to use this panel, with the Enter key or with a PF5 key. When you use the Enter key, you are positioning to find an exact match on a key value. First, type in a key value to position to a segment. In this case, a root key and a key for a TOTUSE child segment is typed in. Use an S line command to select the segment type. Notice that S is typed next to the TOTUSE segment type. Then press Enter.



If the segment is found, the browser is displayed positioned to the requested segment. But in this example, there was no exact key match for the values specified. When you use the PF5 key instead of Enter, it searches for the next segment with a key value greater than or equal to the value specified. PF5 is pressed.

<b>*</b>		Database P	'osit	ioning <sub>l</sub>	panel	
<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp				
FM/IMS		Browse	IMS	Database	USRSCN	
Command =	==>					Scroll <u>CSR</u> Format <u>CHAR</u>
Cmd Level	Segment	+1+-	-		+4	-+5+
		**** Top of w		****		
2	TOTUSE	200303MA .				
3	PRMUSE	20030301000000			_	
3	PRMUSE	20030302000000	100000	00035000		
3	PRMUSE	200303030000000	)10000	0003 Pos	sition after us	ing the
3	PRMUSE	20030305000000	150000			
3	PRMUSE	20030306000000	100000	0035 Dai	abase Positi	oning panel.
3	PRMUSE	20030307000000.	20000	0007000		
3	PRMUSE	20030308000000	200000	0070000		
3	PRMUSE	200303090000000	250000	0122500		
3	PRMUSE	20030310000000	100000	0035000		
3	PRMUSE	200303110000000	150000	0052500		
3	PRMUSE	20030312000000	100000	0035000		
3	PRMUSE	200303130000000	200000	0070000		
3	PRMUSE	20030314000000	10000	0038500		
3	PRMUSE	20030315000000	20000	0041500		
F1=Help					v F5=RFind	F6=RChange
F7=Up		wn F9=Swap				
· ·	1				-	
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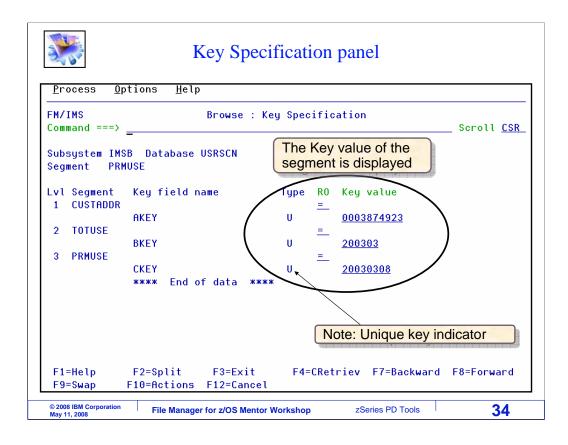
And the browser is displayed, positioned to the requested segment type and based on the key values.



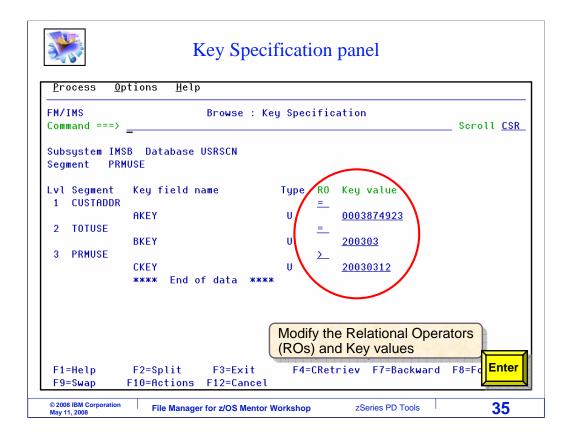
You have already seen that you can reposition in the database using commands such as TOP, BOTTOM, NEXT, PREVIOUS, ROOT, CHILD, and TWIN. And you can also reposition using the database positioning panel. And there is still one more method available, the key specification panel.

*		Key Specification p	banel
<u>P</u> rocess	<u>O</u> ptions <u>H</u> el	р	
FM/IMS Command =	==>	Browse : IMS Database	e USRSCNScroll <u>CSR_</u>
Cmd Level	Segment		pe DB Col <u>1</u> Format <u>CHAR</u> -3+4+5+
2 3 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	TOTUSE         2003           PRMUSE         2003	IO get to the Key Spectrum           panel, use the Key Spectrum <th>Or optionally use the <u>Key</u> command: FM/IMS Command ===&gt; <u>key</u></th>	Or optionally use the <u>Key</u> command: FM/IMS Command ===> <u>key</u>
3 3 3 F1=Help F7=Up	PRMUSE 2003 PRMUSE 2003 F2=Format	0313000000200000070000 0314000000110000038500 03150000000120000041500 F3=Exit F4=CRetri F9=Swap F10=Left	iev F5=RFind F6=R( <b>Enter</b> F11=Right F12=re
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There are two ways to get to the key specification panel, either with a K line command, or with a KEY command on the command line. In this example, a K line command is typed next to a segment. Enter.



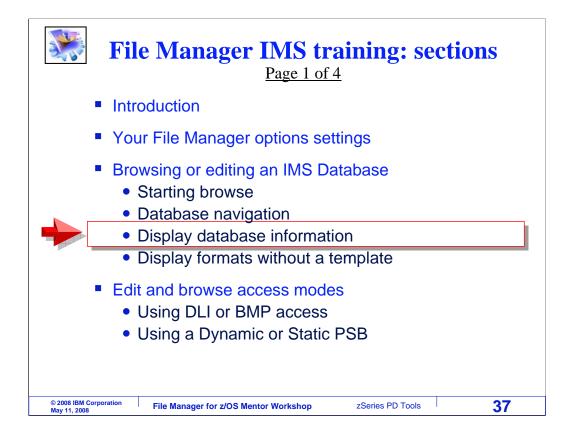
That brings up the key specification panel. This panel is similar to the database positioning panel, but here you have more options. In the RO column (RO stands for relational operator), you can enter valid IMS search relational operators such as equal, less than or equal, and greater than or equal.



Key values and relational operators are changed to position to another segment. Enter.

1100	ess	<u>O</u> ptions	<u>H</u> elp								
FM/IN						atabase					
Comma	and =	==>	Scope DB Col <u>1</u>				Scroll <u>CSR</u>		<u>SR</u>		
Cmd L	evel	Segment		1+		-		+4	+	5+	
				Top of w		****					
	3	PRMUSE		30000000							
	3	PRMUSE		4000000							
	3	PRMUSE	2003031	50000000	1200000	041500					
	3	PRMUSE	2003031	.60000000 70000000	1300000	<sup>045</sup> Pos	sition	after us	sing th	he Key	
	3	PRMUSE	200000			Shi Sho	cific	ation pa	nel		
	3	PRMUSE		80000000		002					/
	3	PRMUSE		90000000							
	3	PRMUSE		200000000							
	3	PRMUSE		10000000							
	3	PRMUSE		20000000							
	3	PRMUSE		230000000							
	3	PRMUSE	2003032	40000000	0500000	017500					
	3	PRMUSE		250000000							
	3	PRMUSE		260000000							
	3	PRMUSE	2003032	270000000	0800000	028000					
F1=F	lelp	F2=Fo	rmat	F3=Exit	F4	=CRetrie	v F	5=RFind	- Fe	6=RChang	e

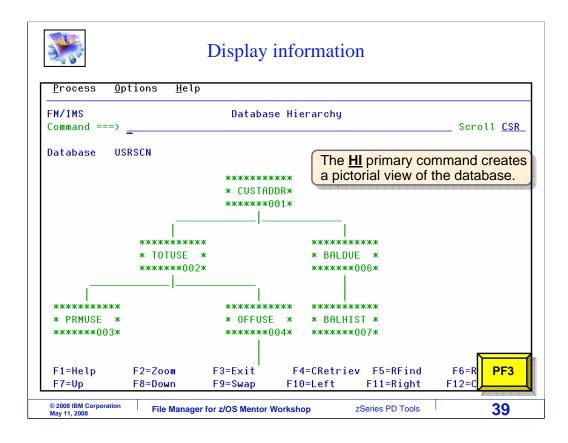
And the browser is repositioned to the segment. Now you have seen the ways to navigate a database: scrolling with PF keys, using commands, from the database positioning panel, and from the key specification panel. Use which ever methods you prefer or find easiest.



Next, you will learn about commands you can use to get information about a database.

		Display	information		
<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp	The H	II (hierarchy	) command
FM/IMS Command =	==) <u>hi</u>	Browse	: IMS Database U	SRSCN DB Col <u>1</u>	Scroll <u>CSR_</u>
Cmd Level	Segment		3-		
1	CUSTADDR TOTUSE	**** Top of w 000387492332733 200303MA	25564BILL B. UFF	ALO	666 PRAR
3	PRMUSE	20030301000000	2000000070000		
3 3 3	PRMUSE PRMUSE PRMUSE	200303020000000 200303030000000 200303050000000	0100000003500		
3 3 3	PRMUSE	200303050000000 200303050000000 200303060000000	1000000035000		
3 3	PRMUSE		200 <mark>0</mark> 000070000		
3 3	PRMUSE	200303100000000	1000000035000		
3 3	PRMUSE PRMUSE PRMUSE	20030312000000 20030312000000 200303130000000	1000000035000		
3	PRMUSE	200303140000000		EE-DEind	F6=RC Enter
F1=Help F7=Up	F2=Fo F8=Do			F5=RF1nd F11=Right	F6=RU Liner F12=re
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The HI, or hierarchchy, command can be used to see the database structure. HI is typed on the command line, and Enter is pressed.



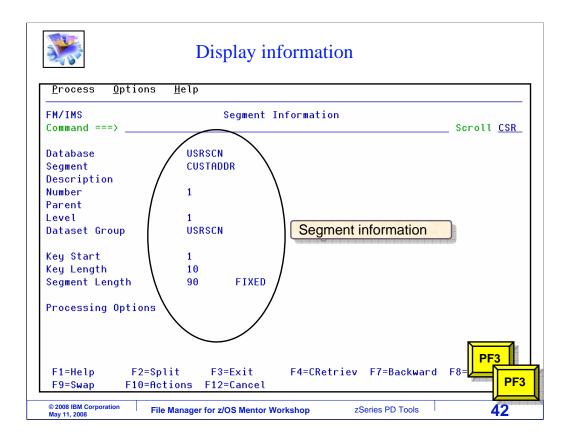
That displayed a pictorial view of the database. In this example, CUSTADDR segments are root segments. TOTUSE and BALDUE segments are children of the root, and so on. If the database has a large, complex structure, the picture can be scrolled up and down and to the left and right with PF keys.

		Display information
<u>P</u> rocess	<u>O</u> ptions	Help
FM/IMS Command =	\dbd	Browse : IMS Database USRSCN
command -		Scope DBCol_1Format_CHAR
Cmd Level	Segment	+1+2+3+4+5+
	<b>2</b>	**** Top of window ****
1	CUSTADDR	00038749233273325564BILL B. UFFAL0 666 PRAR
2	TOTUSE	200303MA
3	PRMUSE	20030301000000200000070000
3	PRMUSE	20030302000000100000035000
3	PRMUSE	20030303000000010000003500
3	PRMUSE	200303050000001500000052500
3 3	PRMUSE	20030306000000100000035000
3	PRMUSE	20030307000000.020000007000
3	PRMUSE	20030308000000200000070000
3	PRMUSE	200303090000002500000122500
3	PRMUSE	20030310000000100000 The command DBD will
3	PRMUSE	200303110000000150000 The command <u>DBD</u> will
3	PRMUSE	20030312000000100000 provide DBD information
3	PRMUSE	200303130000002000000070000
3	PRMUSE	2003031400000001100000038500
F1=Help	F2=Fo	ormat F3=Exit F4=CRetriev F5=RFind F6=RC <mark>Enter</mark>
F7=Up	F8=Do	wn F9=Swap F10=Left F11=Right F12=re
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May 11, 2008	File	e Manager for z/OS Mentor Workshop zSeries PD Tools 40

You can get information about the DBD, or database descriptor block, with the DBD command. Enter.

		<u>H</u> elp	-				
FM/IMS			DBD In	formatio	n		
Command =	==>						Scroll <u>CSR</u>
Database	USRSCN						
Access	HIDAM VSA	М					
	Segment			Key			Dataset
Cmd Num	ber/Name/Lev	vel	Length	Start L	ength	Parent	Group
****	Top of data						
<u>s</u> 1	CUSTADDR	1	90	1	10		USRSCN
2		2	80	1	6	CUSTADDR	
_ 3			80	1	8	TOTUSE	USRSCN
_ 4		3	80	1	8	TOTUSE	USRSCN
_ 5	OFFDTL	4	80	1	8	OFFUSE	USRSCN
_ 6	BALDUE	2	80	1	6	CUSTADDR	USRSCN
_ 7	BALHIST	3	170	Se	nment i	nformation	can
****	End of data	а жи	кжж		display		ourr
				De	uispiay	-u	
F1=Help	F2=Spl:		F3=Exit	E4-CD		EZ-Baskussa	d F8=Fo <mark>Enter</mark>

The DBD command displayed this panel, which shows a list of the segments in the database. Segment names, total segment length, key positions, and segment relationship information is shown. You can get more information about any segment. Here an S line command is typed next to the CUSTADDR segment type, and Enter is pressed.



That shows the segment information panel, which has detailed information about the segment type. PF3 is pressed a couple of times to return to the browser.

		Display	inforr	nation				
<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp						
FM/IMS		Browse	IMS Da	atabase U	SRSCN			
Command ==	= <u>seg to</u>	tuse					Scroll	CSR
				Scope	DB Col	1	Format	<u>CHAR</u>
Cmd Level	Segment	+1+-	2					
	_	**** Top of w:	.ndow	жжжж				
1	CUSTADDR	000387492332733	25564BII	L B. UFF	ALO		666	PRAR
2	TOTUSE	200303MA						
3	PRMUSE	20030301000000	20000000	970000				
3	PRMUSE	20030302000000	.0000000	935000				
3	PRMUSE	200303030000000	100000	903500				
3	PRMUSE	20030305000000	5000000	952500				
3 3	PRMUSE	20030306000000	.0000000	935000				
3	PRMUSE	20030307000000.	200000	907000				
3	PRMUSE	20030308000000	20000000	970000				
3	PRMUSE	20030309000000	2500000	122500				
3	PRMUSE	20030310000000	.00000	The SEC	Sment	comma	nd will	
3	PRMUSE	200303110000000		display t				
3	PRMUSE	20030312000000	00000	as on the				
3	PRMUSE	20030313000000	200000		- previ	545 514		
3	PRMUSE	20030314000000	100000	038500				
F1=Help	F2=Fo	rmat F3=Exit	F4:	=CRetriev	F5=RF	ind	F6=RC E	nter
F7=Up	F8=Do	wn F9=Swap	F10	=Left	F11=Ri	ght F	12=re	
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May 11, 2008	File	e Manager for z/OS Mento	r Worksho	p z	Series PD 1	Iools	4	13

Another way to get to the segment information panel is with an SEG command. Here, an SEG TOTUSE command is entered. TOTUSE is a segment name.

<u>P</u> rocess <u>O</u> ptions	<u>H</u> elp		
FM/IMS Command ===>	Segment	Information	Scroll <u>CSR</u>
Database	USRSCN		
Segment	TOTUSE		
Description			
Number	2		
Parent	CUSTADDR		
Level	2		
Dataset Group	USRSCN	Segment information	
Key Start	1		
Key Length	6		
Segment Length	80 FIXED		
Processing Options			
F1=Help F2=Sp	lit F3=Exit	F4=CRetriev F7=Backward	F8=For PF3

And that displayed the segment information panel again.

		Display information	
Process	<u>O</u> ptions	Help	
FM/IMS Command ==	==) rel	Browse : IMS Database USRSCN S	croll CSR
o o miniciri d		Scope DB Col <u>1</u> F	ormat CHAR
Cmd Level	Segment	+ <u>4</u> + <u>4</u> + <u>4</u> +	
		**** Top of window ****	
1	CUSTADDR	00038749233273325564BILL B. UFFAL0	666 PRAR
2	TOTUSE	200303MA	
3	PRMUSE	20030301000000200000070000	
3	PRMUSE	20030302000000100000035000	
3	PRMUSE	20030303000000010000003500	
3	PRMUSE	20030305000000150000052500	
3	PRMUSE	20030306000000100000035000	
3	PRMUSE	20030307000000.020000007000	
3	PRMUSE	20030308000000200000070000	
3	PRMUSE	200303090000002500000122500	
3	PRMUSE	20030310000000100000 The command PEL ated	
3	PRMUSE	20030311000000015000 The command <u>RELated</u>	
3	PRMUSE	20030312000000010000 will show the database	
3	PRMUSE	2003031300000020000 logical relationship	
3	PRMUSE	20030314000000011000 information	
F1=Help		rmat F3=Exit F4=checilev r5=hrind ro	-nc Enter
F7=Up	F8=Do	wn F9=Swap F10=Left F11=Right F12	=re
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May 11, 2008	File	e Manager for z/OS Mentor Workshop zSeries PD Tools	45

Use the REL, for related, command to get logical relationship information.

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp					
FM/IMS		Logica	l Relation	ship Infor	matio	n	
Command =	·==>						Scroll <u>CSR</u>
		Related	Related	Key	(	I D R	
Database	Segment	Database	Segment	Start Le	ngth	Rules	Relationship
USRSCN	CUSTADDR			1	10	LLL,LAST	
_	TOTUSE			1	6	LLL,LAST	
	PRMUSE			1	8	LLL,LAST	
	OFFUSE			1	8		
	OFFDTL			1		LLL,LAST	
	BALDUE			1		LLL,LAST	
	BALHIST			1	6	LLL,LAST	
L	ogical, Phy	ysical, or V	/irtual rule	The first pa s. The sec s, First, La	cond	part	

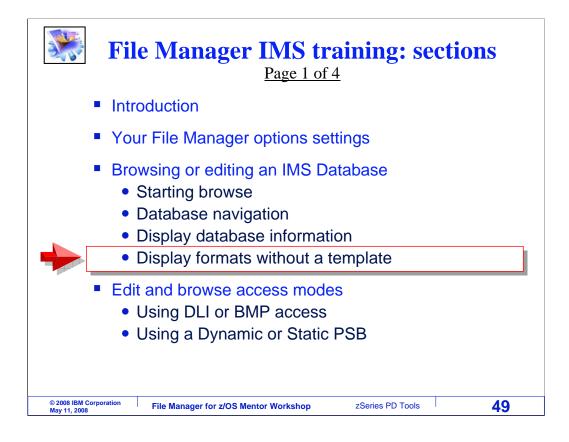
The REL command displays the Logical Relationship information panel, which shows related databases if any segments are defined with logical relationships. It also shows the IDR rules which control logical, physical, and virtual relationships as well as insert rules.

<b>*</b>		Segme	nt statistics		
<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp			
FM/IMS		Browse	: IMS Database U	SRSCN	
Command ==	==> <u>segsta</u>	ts			Scroll <u>CSR</u>
			Scope	DB Col <u>1</u>	Format <u>CHAR</u>
Cmd Level	Segment	+	3-	+4	+5+
		жжжж Тороfы			
1	CUSTADDR	000387492332733	25564BILL B. UFF	ALO	666 PRAR
2	TOTUSE	200303MA			
3	PRMUSE	20030301000000			
3	PRMUSE	2003030200000	The OFOOTATO		hauna
3	PRMUSE		The SEGSTATS		
3	PRMUSE		segment counts	and statistic	S.
3	PRMUSE	20030306000000			
3	PRMUSE	20030307000000.	0200000000000		
3	PRMUSE	20030308000000			
3	PRMUSE	20030309000000			
3	PRMUSE	20030310000000			
3	PRMUSE	200303110000000			
3	PRMUSE	20030312000000			
3	PRMUSE	20030313000000			
3	PRMUSE	20030314000000			
F1=Help			F4=CRetriev		F6=RCI Enter
F7=Up	F8=Do	wn F9=Swap	F10=Left	F11=Right	F12=re
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Sometimes, you may want an easy way to get statistics about the database, such as how many total segments there are, and how many of each type of segment there are. Use the SEGSTATS command to get that information. Enter.

Process Options	Help	gment statist	ics	
FM/IMS Command ===> segsta	Bi Bi	rowse : IMS Data File Manager Mes		Scroll CSR
- IBM File Manager Segment statistic		MS Component		More: +
Total segments Total data bytes Segment CUSTADDR	se	e <u>SEGSTATS</u> c gment counts ar e IMS database.		: 10
Segment TOTUSE Segment PRMUSE				: 11 : 103
	2=Split 9=Swap	F3=Exit F10=Actions	F4=CRetriev F12=Cancel	: 61 F7=Backw PF3
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The SEGSTATS command displayed this panel, which shows a total segment count, a total byte count, and counts for each segment type.



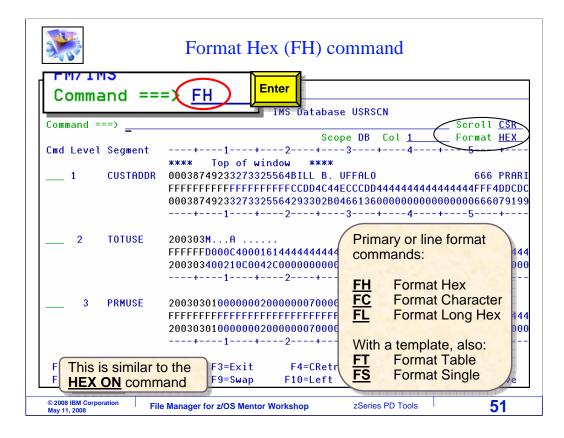
In the last topic of this section, you will learn about some of the formats available in the editor and browser.

		Format	Chara	cter (FC)	command	l
Comma		= FC		nter	USRSCN	Scroll <u>CSR</u>
					e DB Col <u>1</u>	Format <u>CHAR</u>
Cmd Level	Segment		-	-	34-	+5
	CUSTADDR Totuse	000387492 200303M	.A	564BILL B. U	IFFALO	666 PRARI
3	PRMUSE			00000070000		
3	PRMUSE PRMUSE			00000035000		
3	PRMUSE			00000052500	Primary or	line format
3	PRMUSE			00000035000	commands	:
3	PRMUSE			00000007000		
3	PRMUSE	200303080	00000020	00000070000	FH Forn	nat Hex
3	PRMUSE	200303090	00000025	00000122500		nat Character
3	PRMUSE			00000035000	FI Forn	nat Long Hex
3	PRMUSE			00000052500		lat Long Hox
3	PRMUSE			00000035000	With a tom	
3	PRMUSE			00000070000	With a tem	
3	PRMUSE			00000038500		nat Table
F1=Help F7=Up	F2=Fo F8=Do		=Exit =Swap	F4=CRetr F10=Left	FS Forn	nat Single
гт-ор	F0-D0	wii F9-	-swah	110-Leit		cve
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Formats control how data is displayed by the browser and editor. Character format is being displayed now. Notice the "format" field in the upper right area of the screen. It currently has a value of CHAR, for character format. But there are several other formats. In character format, each segment is displayed on one line. You can scroll to other segments with PF8 and PF7, and you can scroll to the right and left with PF11 and PF10.

There are five formats: character, hex, long hex, table, and single. Table and single formats show the data fields within segments, but you need something called a template first. You will see those formats in a later section.

There are special commands you can use to change the format. All of the format commands start with the letter F. For example, the FC command switches to character format.



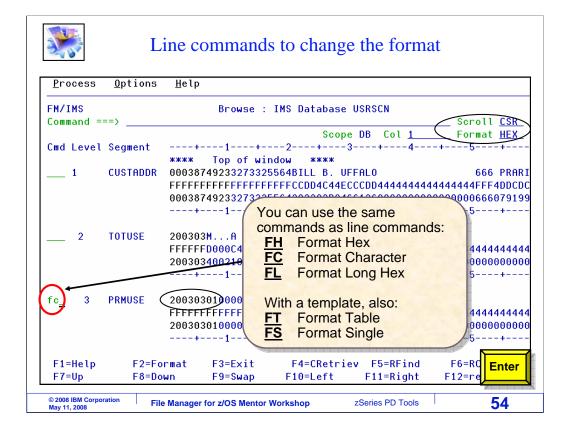
Another format is called Hex. Hex format is similar to character format, except that the hexadecimal representations of the data are displayed under the characters. Be aware that you can accomplish the same thing with a HEX ON command. The FH, for format HEX, command was entered to switch to hex format. Notice that the format field in the upper right has a value of HEX.

		Form	nat Long	Hex (FL)	com	mand	
Comma		=		nter	USRSCI	N	
Command =	==>						Scroll CSR
	-			Scop	e DB (	Col <u>1 (</u>	_ Format <u>LHE</u>
Cmd Level	Segment		- +	- 1	+	2 `	
		****	Top of wir	ndow ****			
1	CUSTADDR	F0F0F0	9F3F8F7F4F9I	F2F3F3F2F7F3F	3F2F5F	5F6F4C2C9D	3D340C24B40E
2	TOTUSE	F2F0F0	)F3F0F3 <mark>D400</mark> (	002C1400C000	0146210	2404040404	040404040404
3	PRMUSE	F2F0F	F3F0F3F0F1	FOFOFOFOFOFOF	0F2F0F0	)F0F0F0F0F	0F7F0F0F0F04
3	PRMUSE	F2F0F0	F3F0F3F0F2	FOFOFOFOFOFOF	0F1E0E	<u> JEOFOFOFOF</u>	0F3F5F0F0F04
3	PRMUSE	F2F0F0	DF3F0F3F0F3	FOFOFOFOFOFOF	Drime	any or line	format 94
3	PRMUSE	F2F0F0	F3F0F3F0F5	FOFOFOFOFOFO		ary or line	IUIIIat
3	PRMUSE	F2F0F	F3F0F3F0F6	FOFOFOFOFOFC	comn	nands:	4
3	PRMUSE	F2F0F0	F3F0F3F0F7	FOFOFOFOFOFC			4
3	PRMUSE	F2F0F0	F3F0F3F0F8	FOFOFOFOFOF	FH	Format	Hex 4
3	PRMUSE	F2F0F0	F3F0F3F0F9	FOFOFOFOFOF	FC FL	Format	Character 4
3	PRMUSE	F2F0F0	0F3F0F3F1F0	-0F0F0F0F0FC	FI		Long Hex
3	PRMUSE	F2F0F0	0F3F0F3F1F1	FOFOFOFOFOF		Tonnat	Long nex 4
3	PRMUSE	F2F0F0	F3F0F3F1F2	-0F0F0F0F0F6			4
3	PRMUSE	F2F0F0	0F3F0F3F1F3	FOFOFOFOFOF	With	a templat	
3	PRMUSE	F2F0F0	0F3F0F3F1F4	-0F0F0F0F0FC	FT	Format	Table 4
F1=Help	F2=Fo	rmat	F3=Exit	F4=CRetr	FS	Format	Sinale
F7=Up	F8=Do	wn	F9=Swap	F10=Left	-		eve
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Another format is called Long hex. The FL command is used to switch to long hex format. In this format, only the hexadecimal representations are shown. Although long hex is not used as often as the others, it can be helpful if you need to type in a long string of hex characters in the editor.

*		Or change the format fi	eld
<u>P</u> rocess	<u>O</u> ptions	Help	
FM/IMS		Browse : IMS Database USRS	SCN
Command ==	==>		Scroll <u>Scro</u> l
		Scope DB	Col <u>1</u> Format <u>h</u>
<u>C</u> md Level	Segment	+	2 +
		**** Top of window ****	
1	CUSTADDR	F0F0F0F3F8F7F4F9F2F3F3F2F7F3F3F2F5	
2	TOTUSE	F2F0F0F3F0F3D4000002C1400C00001462	
3	PRMUSE	F2F0F0F3F0F3F0F1F0F0F0F0F0F0F0F0F0F0F0F0F0	
3	PRMUSE	F2F0F0F3F0F3f You can also chang	ge the format 5560F0F040
3	PRMUSE	F2F0F0F3F0F3f by overtyping the fo	ormat field: 575505040
3	PRMUSE	F2F0F0F3F0F3F	<b>X</b> 2F5F0F040
3	PRMUSE		
3	PRMUSE	F2F0F0F3F0F3F0F7F0F0F0F0F0F0F030F0F2	
3	PRMUSE	F2F0F0F3F0F3F0F8F0F0F0F0F0F0F0F2F0	
3	PRMUSE	F2F0F0F3F0F3F0F9F0F0F0F0F0F0F0F0F2F5	
3	PRMUSE	F2F0F0F3F0F3F1F0F0F0F0F0F0F0F0F0F1F0	
3	PRMUSE	F2F0F0F3F0F3F1F1F0F0F0F0F0F0F0F0F1F5	
3	PRMUSE	F2F0F0F3F0F3F1F2F0F0F0F0F0F0F0F0F1F0	
<u>3</u> 3	PRMUSE	F2F0F0F3F0F3F1F3F0F0F0F0F0F0F0F0F2F0	
	PRMUSE	F2F0F0F3F0F3F1F4F0F0F0F0F0F0F0F0F0F1F1 mat F3=Exit F4=CRetriev F	
F1=Help	F2=Fo		
F7=Up	F8=Do	un F9=Swap F10=Left F1	11=Right F12=re
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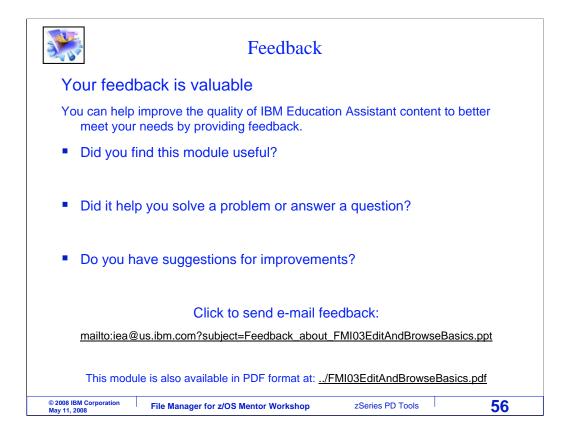
There are other ways to switch the format, other than the F commands. You can overtype the value of the format field. Enter the entire format type, or just the first letter. In this example, the letter H is typed into the format field. Enter.



And that switched to HEX format. You can also use the F format commands as line commands. When used as line commands, they switch the format and they also position to the segment. Here, an FC line command is typed next to a segment. Enter.

Process	Options	Help			
	<b>Tb</b>			0.0.0.0	
FM/IMS		Browse :	IMS Database U		
Command =	==>				
	<b>•</b> •				Format <u>CH</u> f
Cmd Level		$\sim$	2+3-	+4	-+5+
3		003030100000002		Position	ed to the
3		<del>0030302</del> 0000001			cted with
3 3		003030300000000		the "FC"	
3 3		003030500000001			
3 3		003030600000001		comman	nd.
		003030800000000000000000000000000000000			
3 3		003030900000002			
3		00303100000002			
3		0030311000000001			
3		003031200000001			
3		003031200000002			
3		003031400000001			
3		003031500000001			
3		003031600000001			
3		003031700000001			
F1=Help	F2=Form			F5=RFind	F6=RChange
F7=Up	F8=Down		F10=Left		F12=retrieve

That positioned to the segment, and switched the format. That is the end of this section, an introduction to using the File Manager browser and editor.



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