# SELCOPY/i Structured Data Edit Release 1.80

Monday, March 01, 2010

David Austin Technical Liaison Manager Compute (Bridgend) Ltd



### What is Structured Data Edit ?

- You may know it as Copybook Editing with Structures
  - Edit any File regardless of its size or users region size.
    - Including Multi-volume datasets
  - Apply copybook structures to data.
  - Apply CBL structures to any file without a copybook
  - Multiple views of same data concurrently
  - Selectively display columns, column order, remove as required.
  - View Multiple Record Types Concurrently
  - SQL type syntax provides easy control of data displayed

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000008	3	*** End of Data ***					

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000000 *** Top of Data *** Record type: DATA_TYPES_1 V(31,	51)		
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F 1	8888 1234	0246 05C1 4A00 1 135C 7BD5 1000 8	9BD 00 88888888 CCCCCCCC ACE 08 12345678 12345678
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000008 *** End of Data ***			

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Rec	ord t	type: I Recl	DATA_TY	PES_2 MuZONEd	V(31,51 MuINTe	) ger M	uXVARCHAR	R MUVARCHA	B MuHEXade	cimal	MUEL OAT	MuFIXed	MuDECimal MuCHARac	ter MuBINT(1	L) MuBIT(1)	MuBINT(2)
			#2 BN 1:1	#3 ZD 2:4	BN	#4 # 6:2 A	5 N 8:10	#6 AN 18:12	#7 2 X 30:4	2111101	#8 FP 34:4	#9 FB 38:4	#10 #11 PD 42:4 AN 46:4	#1 BI 50.01	13 #14 2 BT 50.2:	#13 6 BI 51.0:2
000	004	45	<-> 242	<+> 12.34	<	<pre>&gt; &lt;+&gt; &lt;</pre>	+> BCDEFGH		ace cure	sor on r	record	1234567.89	<+ <> <> 1234.56 abcd		- <+> 3 000000	- 2
			F 2	1234		00 C 08 1	2345678	<sup>88</sup> 12 8		DF2 to 2	700m	0501 7BD5	0246 8888 135C 1234			
000	005	46	242 F	12.34 FFFF		8 A 00 C	BCDEFGH		ato a cir		cord	1234567.89 05C1	1234.56 abcd 0246 8888		3 000000	2
			2	1234		08 1	23455			IYIE KE	coru.	7BD5	1350 1234			
Rec	ord t	type: L Pool		PES_1	V(31,51			. M. DIT(2)	MUCHARactor	n MuDECimal	MUETVoo	- M-	ELOAT MULEYadaaima	1 MUINTOGOD		
		LNELL	BN 1:1	BI 2	# #3	2.2:6	#4 BI 3.0:2	) MGBIT(2) 1 #5 2 BT 3.2:6	#6 3 AN 4:4	PD 8:4	FB 12:4	3 3 4 FF	#9 #10 P 16:4 X 20:4	#11 BN 24:2	#12 AN 26:12	#13 AN 38:10
000	006	44	<-> 241		0 0000	-+> )00	(	<+> 0 000110	<> abcd	<> 1234.56	<1> 8090640.56	<+ +0.9536743	1> <+> 31E-06 12345678	<+> 8	<+> abcde	<> ABCDEFGH
			F 1						8888 1234	0246 1350	3357 0968	7 3	4001 1357 0000 2468	00 08	88888 12345	CCCCCCCC 12345678
000	007	42	241 F		3 1111	11	\$	3 111101	abcd 8888	1234.56 0246	8090640.56 3357	; +0.8337881	75E-56 12345678 1357 1357	8	abc 888	ABCDEFGH
			1						1234	1350	0968	3	2468 2468	08	123	12345678
000	008		*** En	d of Dat	a ***											
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-CBLi for File List	<ul> <li>TSO 1.6B</li> <li>Utilities</li> </ul>	- Bui Syst	ld=200801 em Windou	7021252 Op v SwapList	oSys=z/OS : Help	1.9.0 Use	r=DRA					
- <mark>CBL</mark> e File Edit	: Actions O	ption	s Window	Help	Sv ToF	BoF wS w	R Pfx <>	,				- 8
Browse Command 000000 Record 000001	CBL.DIST. type: DATA LRecL My BN 47	Top _TYPE Rec M #2 1:1 <-> 241 F 1	SDE.SAMP. of Data * S_1 V(3 yBINT(1) #4 BI 2.0:2	WAR(DATT) 81,51) MyBIT(1) #5 8T 2.2:6 <+> 000000	(PES):1 us MyBINT(2) #4 BI 3.0:2	MyBIT(2) #5 BT 3.2:6 <+> 001001	BLI.SDO(DIR MuCHARacte #5 AN 4:4 <> abcd 8888 1234	RTYPES) er MyDECimal #7 PD 8:4 <+> 1234.56 0246 135C	Browse CBL.DIST Command> Record> Field 1 DATA_TYPES_1 2 MyRec 2 (1) 3 MyBINT(1) 3 MyBINT(1) 2 (2)	A_TYPES_1 AN 1:51 AN 1:51 AN 2.0:8 BI 2.0:2 BT 2.2:6 AN 3.0:8	SAMP.VAR(DATTYPES):2 using DRA.CE 0000005 V(31,51) Data 241 0 0000000	BLI.SDO(DIRT-+ <mark>x</mark> Scroll) Csr
000002	47	241 F 1 241	0	000000	0	001001	abcd 8888 1234 abcd	1234.56 0246 1350 -1234.55	3 MyBINI(2) 3 MyBIT(2) 2 MyCHARacter 2 MyDECimal 2 MyFIXed 2 MyFIXed	BI 3.0:2 BT 3.2:6 AN 4:4 PD 8:4 FB 12:4 FP 16:4	0 000110 abcd 1234.56 8090640.56 +0.95357431E-06	
Record	type: DATA LRecL My BN	F 1 _TYPE Rec M #2 1:1	S_2 V(3 yZONEd My #3 ZD 2:4	31,51) JINTeger 1 #4 1 BN 6:2 (	1yXVARCHAR #5 NN 8:10	MyVARCHA #6 AN 18:12	8888 1234 R MyHEXade #7 X 30:4	0246 135D ecimal	2 MyHEXadecimal 2 MyHTxadecimal 2 MyINTeger 2 MyVARCHAR 2 MyXVARCHAR 2 MyZONEd	X 20 4 BN 24 2 AN 26 12 AN 38 10 ZD 48 4	12345578 8 abcde ABCDEFGH -12.34	
000004	45	<-> 242 F 2	<+> 12.34 FFFF 1234	<+> < 8 ( 00 ( 03 1	<> ABCDEFGH CCCCCCCC 12345578	<pre>&lt;+ abcdef 8888888 123456</pre>	-> <+> 789ABCDE 79BD 8ACE	<+ +0.10				
000005	46	242 F 2	12.34 FFFF 1234	Open for s	s New single	record	ow -	- 10				
Record	type: DATA LRecL My BN	_TYPE Rec M #2 1:1 <->	S_1 V yBINT(1 # BI 2.0:2	Pres	BI 3.0:2	to exi	AN 4:4	er MyDECimal #7 PD 8:4 <+>				
000006	44	241 F 1	0	000000	0	000110	abcd 8888 1234	1234.56 0246 1350				
000008	42	241 F 1 End	3 of Data *	***	3	111101	abcd 8888 1234	1234.56 0246 135C				

Se | Line=6 | Col=1 | Alt=0,0;0 | Size=7 | Recl=16384 | Fmt=V | Files=1 | Views=2 MA



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		F 1			8888 1234	0246 1350	3357 0968	4001 0000	1357 2468	00 08	88888 12345
000007	42	241 F 1	3 111111	3 111101	abcd 8888 1234	1234.56 0246 1350	8090640.56 3357 0968	+0.83378875E-56 1357 2468	12345678 1357 2468	8 00 08	abc 888 123

3008 \*\*\* End of Data \*\*\*

Se | Line=0 | Col=1 | Alt=0,0;0 | Size=7 | Recl=16384 | Fmt=V | Files=1 | Views=1

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12345678 ABCDEFGH CCCCCCCC 12345678

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Recor	LRecl	. MyRec	MyBINT(	*(31,51) 1) MyBIT(1	) MyBINT(	2) MyBIT(2)	MyCHARacter	MyDECimal	MyFIXed	MyFLOAT MyHEXade	cimal MyINTeger My	VARCHAR MyXVARCHAR
		BN 1:1	BI 2.0	:2 BT 2.2:	6 BI 3.0	#2 5. 3.2:6	#0 AN 4:4	PD 8:4	FB 12:4	FP 16:4 X 20:4	BN 24:2 AN	413 1 26:12 AN 38:10
00000	01 47	7 241 F 1		0 000000		0 001001	-bcd 8-1234	1234.56 0246 1350	1234567.89 05C1 7BD5	+0.10000000E+02 789ABCDE 4A00 79BD 1000 8ACE	E 8 ab 00 88 08 12	ocdefgh ABCDEFGH 38888888 CCCCCCCC 2345678 12345678
00000	12 41	7 241 F 1		0 000000		0 001001	abcd 8888 1234	1234.56 9246	1234567.89 05C1 7BD5	+0.10000000E+02 789ABCDE 4A00 79BD 1000 8ACE	E 8 at 00 89 08 12	ocdefgh ABCDEFGH 3888888 CCCCCCCC 2345678 12345678
00000	13 48	8 241 F 1		3 111111		3 111111	abcd 8888 1234	-1234.56 0246 135D	4567.89 -43E	+0.10000000E+01 F1234567 4100 F246 1000 1357	7 8 ab 00 85 08 12	ocdefghi ABCDEFGH 388888888 CCCCCCCC 23456789 12345678
Recor	d type: LRecl	DATA_TY MyRec #2 BN 1:1 <-> 5 242 F	PES_2 MyZONEd #3 ZD 2:4 <+> 12.34 FFFF	V(31,51) MyINTeger #4 BN 6:2 <+> 8 00						Restor Fields for TYPE	re all r DATA- S_2	
00000	15 46	2 5 242 F 2	1234 12.34 FFFF 1234	88 90 08								
Recon	d type: LRecl	DATA_TY MyRec #2 BN 1:1	PES_1 MyBINT() BI 2.0	V(31,51) 1) MyBIT(1 #4 #5 :2 BT 2.2:	) MyBINT( 6 BI 3.0	2) MyBIT(2) #4 #5 :2 BT 3.2:6	MyCHARacter #6 AN 4:4	MyDECimal #7 PD 8:4	MyFIXed #8 FB 12 <b>:</b> 4	MyFLOAT MyHEXade #9 #10 FP 16:4 X 20:4	ecimal MyINTeger Mu #11 #1 BN 24:2 AN	VARCHAR MyXVARCHAR 2 #13 4 26:12 AN 38:10
00000	16 44	<-> 241 F 1		- <+> 0 000000		- <+> 0 000110	<> abcd 8888 1234	<+> 1234.56 0246 1350	<+1> 8090640.56 3357 0968	<+> <+-> +0.95367431E-06 12345678 4001 1357 0000 2468	<ul> <li>&lt;+&gt; &lt;-</li> <li>8 ab</li> <li>00 85</li> <li>08 12</li> </ul>	+> <+> ocde ABCDEFGH 3888 CCCCCCCC 2345 12345678
00000	17 42	2 241 F 1		3 111111		3 111101	abcd 8888 1234	1234.56 0246 1350	8090640.56 3357 0968	+0.83378875E-56 12345678 1357 1357 2468 2468	3 8 ab 00 89 08 12	ABCDEFGH ABCCCCCCC ABCDEFGH ABCCCCCCCC ABCDEFGH ABCDE ABCDE ABCDA ABCDE ABCDA ABC
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В	rowse	CBL.D.	IST.CBL:	.SDE.SA	MP.V	/AR(DATT	YPES) us:	ing DRA.CBL	I.SDO(DIRTYP	'ES) 163	84 V PDSE					-+ <mark>x</mark>
Re	mmand> cord t	> type:[	DATA_TYP	PES_1	V(31	.,51)	M. DINT (	0) M.DIT(0)	M. OUAD	M. DEC	M ETV 4		M. 1159-1	M. THT	MULLADOLLAD	Scroll> Usr
		LRECL	пукес #2 рм 1•1	nyeini (	1) ⊓ #4 # ⊡2 ¤	цын(н) 5 эт эрес	nyerni(. ; pr o o	2) Мувіт(2) #4 #5 •э вт э э•с	#6 AN 4.4	- NGDECIMAC #7 DR 0.4	myrixed #8 50 12•4	HIGFLOHT #9 EB 16•4	#10 V 20•4	Hyinteger #11	#12 AN 25.12	#13 AN 20.10
00	0002	47	<-> 241	DI 2.0	- <	(+>	BI 3.0	- <+>	<>	<+> 1234_56	<+1> 1234567-89	<>	<+> 7890BCDE	<+>	<+>	<+>
	0002	11	F 1					0 001001	8888 1234	0246 135C	05C1 7BD5	4A00 1000	79BD 8ACE	00 08	888888888 12345678	CCCCCCCC 12345678
00	0003	48	241 F		31	11111		3 111111	abcd 8888	-1234.56 0246	-1234567.89 FA3E	+0.10000000E+01 4100	F1234567 F246	8 00	abcdefghi 888888888	ABCDEFGH
			1						1234	135D	842B	1000	1357	08	123456789	12345678
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00	0007	42	241 F 1		31	11111		3 111101	abcd 8888 1234	1234.56 0246 250	8090640.56 3357 0968	+0.83378875E-56 1357 2468	12345678 1357 2468	8 00 08	abc 888 123	ABCDEFGH CCCCCCCC 12345678
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-CBL1 +c	st Utili	ties Sys	uild=20 stem Wi	indow SwapL	UpSys=z/ ist Help	US 1.9.0 USE	r=DKA							
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Record	i type: LRecL	DATA_TYP MyRec #2 BN 1:1	PES_1 MyBINT BI 2.	V(3,51) (1 MyBIT( #4 #2 0:2 BT 2	1) MyBINT 🌜 BI 3.	(2) MyBIT(2) #4 #5 0:2 BT 3.2:6	MyCHARacter #6 AN 4:4	• MyDECimal #7 PD 8:4	MyFIXed #8 FB 12:4	MyFLOAT #9 FP 16:4	MyHEXadecimal #10 X 20:4	. MyINTeger #11 BN 24:2	MyVARCHAR #12 AN 26:12	MyXVARCHAR #13 AN 38:10
000001	47	<-> 241 F 1		- <+> 0 000000		- <+> 0 001001	<> abcd 8888 1234	<+> 1234.56 0246 1350	<+1> 1234567.89 05C1 7BD5	<++ +0.10000000E+02 4A00 1000	<+> 789ABCDE 79BD 8ACE	<+> 8 00 08	<+> abcdefgh 88888888 12345678	<+> ABCDEFGH CCCCCCCC 12345678
000002	2 47	241 F 1		0 000000		0 6.	abcd	1234.56 0246 1350	1234567.89 05C1 7BD5	+0.10000000E+02 4A00 1000	789ABCDE 79BD 8ACE	8 00 08	abcdefgh 88888888 12345678	ABCDEFGH CCCCCCCC 12345678
000003	3 48	241 F 1		3 111111		3 111111	ab. 8888	-1234.56 0246	-1234567.89 FA3E	+0.10000000E+01 4100 1000	F1234567 F246 1357	8 00 08	abcdefghi 888888888 123456789	ABCDEFGH CCCCCCCC 12345678
000004	44 5 44	241 F 1	2	line(ş) su 0 00000	opressed:	record type 0 000110		Now vie Record	ew only d type:	.E-06 4001 0000	12345678 1357 2468	8 00 08	abcde 88888 12345	ABCDEFGH CCCCCCCC 12345678
000007	7 42	2 241 F 1		3 11111		3 111101		DATA-T	YPES_2	iE-56 1357 2468	12345678 1357 2468	8 00 08	abc 888 123	ABCDEFGH CCCCCCCC 12345678
000008	3	*** En	d of Da	ata ***										
		I				v DATA	_TYPES	2	)					

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<b>9</b> V	lista S	iession	) A - 20	s_62x1	60.ses									
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00 Re	0001 cord t	type: (	DATA_TYP	3 l PES_2	ine(s) sup V(31,51)	pressed: re	cord type D	ATA_TYPES_1						
		LRecL	MyRec #2 BN 1:1	MyZONEd #3 ZD 2:4	I MyINTeger #4 BN 6:2	MyXVARCHAR #5 AN 8:10	MyVARCHAR #6 AN 18:12	MyHEXadecimal #7 X 30:4	MyFLOAT #8 FP 34:4	MyFIXed #9 FB 38:4	MyDECimal #10 PD_42:4	MyCHARacter #11 AN 46:4	MyBINT(1) MyBIT(1) #13 #14 BI 50.0:2 BT 50.2:6	MyBINT(2) #13 BI 51.0:2
00	0004	45	242 F 2	12.34 FFFF 1234	8 00 08	ABCDEFGH CCCCCCCC 12345678	abcdef 888888 123456	789ABCDE 79BD 8ACE	+0.10000000E+02 4A00 1000	1234567.89 05C1 7BD5	1234.56 0246 1350	abcd 8888 1234	3 000000	2
00	0005	46	242 F 2	12.34 FFFF 1234	8 00 08	ABCDEFGH CCCCCCCC 12345678	abcdefg 8888888 1234567	789ABCDE 79BD 8ACE	+0.10000000E+02 4A00 1000	1234567.89 05C1 7BD5	1234.56 0246 135C	abcd 8888 1234	3 000000	2
00 00	0006		*** En	2 l d of Dat	ine(s) sup a ***	pressed: re	cord type D	ATA_TYPES_1						
										$\mathbf{C}$				

Now DATA\_TYPES\_1 record type is shadowed.

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ile <u>E</u> dit	Fo <u>n</u> t	Transfer	Macro	Options V	/indow <u>H</u> elp	) 1900-lea									
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ile Edit	Actio	ns Optic	ons Windo	ow Help	? Sv ToF	BoF wS w	R Pfx <>								
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Record	type:     Rec	*** Iop DATA_TYP MuRec	PES_1 \ MUBINT(1	a *** V(31,51) 1) M∪BIT(1	) MUBINT(2	) MuBIT(2)	MuCHARacto	r MuDECimal	MuEIXed		MUELOOT M	uHEXadecimal	MuINTeger	MUVARCHAR	MUXVARCHAR
		#2 BN 1:1	BI 2.0:	#4 #5 :2 BT 2.2:	5 BI 3.0:	4 #5 2 BT 3.2:6	#6 AN 4:4	#7 PD 8:4	#8 FB 12:4		#9 # FP 16:4 X	10 20:4	#11 BN 24:2	#12 AN 26:12	#13 AN 38:10
000001	47	<-> 241		- <+> 0 000000		- <+>	Μον		r to reco	ord	-1> <	+> 89ABCDE	<+> 8	<+> abcdefgh	<+> ABCDEFGH
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000003	48	241 F		3 111111		3 111111	abcd 8888 1234	-1234.56 0246 1350	-1234567.89 FA3E 8428	+0.10000	4100 F 1000 1	1234567 246 357	8 00 08	abcde+gh1 8888888888 123456789	ABCDEFGH CCCCCCCC 12345678
		-					1204	1000	0120		1000 1			120100100	12010010
Record	type: I LRecL	DATA_TYP MyRec	PES_2 \ MyZONEd	V(31,51) MyINTeger	MyXVARCHAR	R MyVARCHAI	R MyHEXade	cimal	MyFLOAT	MyFIX	ed MyDECim	al MyCHARact	er MyBINT()	1) MyBIT(1)	MyBINT(2)
		BN 1:1	#3 ZD 2:4 <+>	BN 6:2	#3 AN 8:10 <+)	#⊓ AN 18:12 > <+	#' X 30:4 -> <+>	<+-	₩0 FP 34 <b>:</b> 4	FB 38	#9 # :4 PD 42 1> <+	:10 #11 :4 AN 46:4	BI 50.0	:2 BT 50.2: - <+>	6 BI 51.0:2
000004	45	242 F	12.34 FFFF	8	ABCDEFGH	abcdef 888888	789ABCDE 79BD	+0.100	000000E+02 1 4A00	1234567.8 050	89 1234. C1 02	56 abcd 46 8888		3 000000	2
000005	45	2	1234	08	12345678	123456	SACE	+0.100	1000	7BI	D5 13	5C 1234		2 000000	2
000000	40	242 F 2	FFFF 1234	00 08	CCCCCCCC 12345678	8888888 1234567	79BD 8ACE	+0.100	4A00 1000	050 7BI	C1 02 D5 13	46 8888 50 1234		3 000000	2
Record	type: I LRecL	DATA_TYF MyRec #2	PES_1 \ MyBINT(1	V(31,51) 1) MyBIT(1 #4 #5	) MyBINT(2)	) MyBIT(2)	MyCHARacter #C	r MyDECimal #7	MyFIXed #0		MyFLOAT M	yHEXadecima)	L MyINTeger	MyVARCHAR	MyXVARCHAR
		BN 1:1 <->	BI 2.0	2 BT 2.2:	5 BI 3.0	2 BT 3.2:6 - <+>	#0 AN 4:4 <>	PD 8:4	FB 12:4	<+	FP 16:4 X	20:4	BN 24:2	AN 26:12	AN 38:10 <+
000006	44	241 F		0 000000	(	000110	abcd 8888	1234.56 0246	8090640.56 3357	+0.9536	7431E-06 1 4001 1	2345678 357	8 00	abcde 88888	ABCDEFGH
000007	42	241		2 111111		2 111101	1234 abod	1350	0968 2090640 56	+0 02270	0000 2 00755-56 1	2245679	80	12345 abc	12345678 ABCDEEGH
000000	72	F		o min			8888 1234	0246 135C	3357 0968	10100010	1357 1 2468 2	357	00 08	888 123	CCCCCCCC 12345678
000008		*** End	d of Data	a ****											

Col=1 | Alt=0,0;0 | Size=7 | Recl=16384 | Fmt=V | Files=1 | Views=1

🔌 Vista	Session	) A - 20	s_62x1(	60.ses									
<u>File E</u> dit	Fo <u>n</u> t	<u>T</u> ransfer	<u>M</u> acro	Options y	<u>M</u> indow <u>H</u>	<u>H</u> elp							
-CBLi fo File Lis	r TSO 1. t Utili	.68 - Bu ties Sys	uild=2008 stem Wind	307021252 Jow SwapLi	OpSys=z∕ st Help	0S 1.9.0 Use	r=DRA						
- <mark>CBLe</mark> File Edi	t Action	ns Optio	ons Windo	ow Help	? Sv T	oF BoF wS w	R Pfx K	>					-
Brows	e CBL.D:	IST.CBLI	.SDE.SAN	1P.VAR(DAT	TYPES) u	sing DRA.CBL	I.SDO(DIRT	TYPES)	16384 V PDSE				-+ <mark>X</mark> Sepollà Cep
000000 Record	luz     tune: [		of Data	∎ *** /(31.51)									SCRUTT/ USP
necore	LRecL	MyRec #2	MyBINT(1	l) MyBIT(1 ±4 #5	) MyBINT	(2) MyBIT(2) #4 #5	MyCHARact #6	er MyDECim	al MyFIXed #7 #8	MyFLOAT MyHE> #9 #10	Xadecimal MyINTege #1	r MyVARCHAR 1 #12	MyXVARCHAR #13
		BN 1:1 <->	BI 2.0	2 BT 2.2: - <+>	6 BI 3.	0:2 BT 3.2:6 - <+>	AN 4:4 <>	PD 8 <+	:4 FB 12:4 -> <+1>	FP 16:4 X 20	9:4 BN 24: +> <+	2 AN 26:12 > <+>	AN 38:10 <+
000001	47	241 F		0 000000		0 001001	abcd 8888	1234. 02	56 1234567.89 46 05C1	+0.10000000E+02 789AB 4A00 79BD	BCDE 0	8 abcdefgh 0 88888888	ABCDEFGH
		1					1234	13 Novy vy	5C 7BD5	1000 8ACE	0	8 12345678	12345678
000002	47	241 F		0 000000		0 001001	at 88	New w	indow	4A00 79BD	BCDE 0	8 abcdetgh 9 88888888 9 10045670	ABCDEFGH CCCCCCCC 10045679
000003	49	241		3 111111		3 111111	≝ар	pears s	showing	1000 SHCE	4567	o IZ343670 8 abcdafabi	ABCDEEGH
	40	F				0 111111	88 12	all fie	elds.	4100 F246 1000 1357	-501 0 0	0 8888888888 8 123456789	CCCCCCCC 12345678
Record	l type: [ LRecL	DATA_TYP MyRec	PES_2 \ MyZONEd	/(31,51) MyINTeger	MyXVARC	HAR MyVARCHA	R MyHEXad	decimal	M	MyFIXed MyDECimal M	MyCHARacter MyBINT	(1) MyBIT(1)	MyBINT(2)
		#2 BN 1:1	#3 ZD 2:4	#4 BN 6:2	#5 : AN 8:10	#6 AN 18:12	#7 X 30:4	Ę ,	FP 34	#9 #10 # FB 38:4 PD 42:4 #	#11 AN 46:4 BI 50.	#13 #14 0:2 BT 50.2:	#13 6 BI 51.0:2
000004	45	242	12.34	<> 8	ABCDEFG	H abcdef	789ABCD	)E +0.	10000000E+02 4000	74567.89 1234.56 a	sbcd	3 000000	2
		2	1234	08	1234567	8 123456	SACE			TYPES 1. T122738-CMX	255 V SE0 Si	70=15 Alt=	0.0:1 -+•
000005	46	242 F	12.34 FFFF	8 00	ABCDEFG	H abcdefg C 8888888	789ABCD 79BD	)E +0	Command>	1+2+			Scroll> Csr .6+
		2	1234	08	1234567	8 1234567	SACE		00001 <u>Å</u> sd se 00002 MyR	lect from _DATA_TYPES; ec	_1 in DRA.CBLI.SDO , /* Lev=	(DIRTYPES) ∖ 02 1*INTEGE	R u ∗/ ∖
Record	l type: (		PES_1	/(31,51)		(0) N DET(0)			00003 /* #3 00004 My	/* Filler */ BINT	, */ /* Lev= , /* Lev=	02 2*STRUCT 03 2*BINTEG	URE */ \ ER u */ \
	LKecL	MyKec #2		1) MyBII(1 #4 #5 •2 PT 2 2•	) MyBINI	(2) MyBII(2) #4 #5 0•2 PT 2 2•6	#6 AN 4.4	er MyDECi	00005 MyC 00006 MyC	BII HARacter ECimol	, /* Lev= , /* Lev=	03 2*811 02 1*CHARAC 02 1*DECIMO	TER */ \
000006	44	<-> 241	BI 2.0	- <+>	O DI 3.	- <+>	<>	<+- 1234	00008 MyF	IXed	, /* Lev= , /* Lev= , /* Lev=	02 1*FIXED 02 1*FIXED 02 1*FLOATH	E #/ \ #/ \ FX #/ \
		F 1		0 000000		0 000110	8888 1234	0	00010 MgH 00011 MgH	EXadecimal NTeger	/* Lev= /* Lev=	02 1*HEXADE 02 1*INTEGE	CIMAL */ \ R */ \
000007	42	241		3 111111		3 111101	abcd	1234	00012 MyV 00013 MyX	ARCHAR VARCHAR	, /* Lev= , /* Lev=	02 1*VARCHA 02 1*XVARCH	R */ \ AR */ \
		F 1					8888 1234	0 1	00014 MyZ 00015   End	ONEd of SdeSel generated co	, /* Lev= ommand.	92 1*ZONED	*/ \
000008	;	*** End	d of Data	***					00016 * * *	ENG OF File * * *			
-									Add "Hold" k	eyword following any f	Fieldname to maint	ain visibili	ty
le Lin	ie=1   Co	ot=1   A	itt=0,0;1	l   Size=1	5   Recl	=255   Fmt=V	Files=3	3   Views=3					

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<u>Eile E</u> dit	Fo <u>n</u> t <u>I</u>	ransfer	<u>M</u> acro <u>C</u>	ptions <u>W</u> i	ndow <u>H</u> elp										
-CBLi for ile List	• TSO 1. Utilit	68 - Bu ies Sys	ild=20080 tem Windo:	7021252 O w SwapLis	pSys=z⁄OS t Help	1.9.0 Use	r=DRA								
-CBLe File Edit	Action	s Optio	ns Window	Help	? Sv ToF	BoF wS wl	R Pfx <>								
-Browse Command	≥ CBL.DI D	ST.CBLI	.SDE.SAMP	.VAR(DATT	YPES) usin	g DRA.CBL	I.SDO(DIRTY	PES)	16384 V PDSE						-+ <mark>x</mark> Scroll> <b>C</b> sr
000000 Record	type: D	*** Top ATA_TYP	of Data ES_1 V(	*** 31,51)											
	LRecL	MyRec #2	MyBINT(1) #4	MyBIT(1) #5	MyBINT(2) #4	MyBIT(2) #5	MyCHARacte #6	r MyDECima	al MyFI) #7 •4 FD 14	ed M #8	1yFLOAT MyH #9 #10	EXadecimal	MyINTeger   #11 :	MyVARCHAR #12	MyXVARCHAR #13
000001	47	241	BI 2.0:2	<pre>81 2.2:6 &lt;+&gt; 000000</pre>	BI 3.0:2	<+>	<pre>HN 4:4 &lt;&gt; abcd</pre>	<+ 1234-5	:4 FB I -> <+ 56 1234567.	:4 r 1> <+ 89 +0,100000	-P 16:4 X -1> < 000E+02 789	20:4 -+> ABCDE	<+> 8	HN 26:12 <+> abcdefab	4800EE6H
000001	41	F		000000		001001	8888 1234	02	46 05 5C 7E	C1 D5	4A00 798 1000 8A0	ID IE	00 08	888888888 12345678	CCCCCCCC 12345678
000002	47	241	0	000000	Θ	001001	abcd	1234.5	56 1234567.	89 +0.100000	000E+02 789	ABCDE	8	abcdefgh	ABCDEFGH
		F 1					8888 1234	02) 13	46 05 5C 78	C1 D5	4A00 798 1000 8AC	iD iE	00 08	88888888 12345678	CCCCCCCC 12345678
000003	48	241 F	з	111111	з	111111	abcd 8888	-1234.9	56 -1234567. 46 Ff	89 +0.100000 3E	000E+01 F12 4100 F24	34567 6	8 00	abcdefghi 8888888888	ABCDEFGH
		1					1234	13	5D 84	2B	1000 135	7	08	123456789	12345678
Record	type: D	ATA_TYP	ES_2 V(	31,51)		MULLADOLLA				METV		M. CUAD		) M. DIT(1)	
	LNELL	#2 BN 1:1	#3 ZD 2:4	ginneger #4 BN 6:2	#5 AN 8:10	#6 AN 18:12	#7 X 30:4	cimat	#8 FP 34:4	FB 38:4	9 #10 9 #10 4 PD 42:4	. пуспякасс   #11   АМ 46:4	#1 BI 50.0:	3 #14 2 BT 50.2:0	#13 5 BI 51.0:2
000004	45	<-> 242	<+> 12.34	<+> 8	<+> ABCDEFGH	<+ abcdef	-> <+> 789ABCDE	< +0.	-+1) 10000000E+02	<1> 1234567.89	<+> 3 1234.56	<> abcd		- <+> 3 000000	- 2
		F 2	Μον	e/dele	ete line	888 456	79BD 8ACE			0501	0246	8888	CEO Cina	-15 -014-0	0.011
000005	46	242 F	to	change	order	defg 8888	789ABCDE 79BD	+0	Command>	+1+.			4+	-15 Htt=1	Scroll> Csr
		2		anango		4567	SACE		00001 <b>(</b> sd 00002 - 1	select from yRec	_DATA_TYPE	S_1 in DRA	.CBLI.SDO(D /* Lev=02	IRTYPES) \ 1*INTEGE	R u *∕∖
Record	type: D	ATA_TYP	E	M DIT(()			MUSILAR		00003 /* 1	3 ∕*F MyBINT	Filler */	, * ,	<pre>//* Lev=02 /* Lev=03 /* Lev=03</pre>	2*STRUCT	URE */ \ ER u */ \
	LKecL	Мукес #2 RN 1:1	#4 BI 2-0:2	#5 BT 2-2*6	MUBINI(2) #4 BT 3-0*2	#5 BT 3.2*6	ПУСНАКАССС #6 АN 4:4	PD	00005	NUBII VCHARacter VDECimal		,	/* Lev=03 /* Lev=02 /* Lev=02	2*BI 1*CHARAC 1*DECIMA	TER */ \ */ \
000006	44	<-> 241	-	<+> 000000	- 01 01012	<+> 000110	<> abcd	<+- 1234	00008	yFIXed yFLOAT			/* Lev=02 /* Lev=02	1*FIXED 1*FLOATH	- */ \ #/ \ EX */ \
		F 1					8888 1234	0 1	00010	yHEXadecimal yINTeger	l	,	/* Lev=02 /* Lev=02	1*HEXADE 1*INTEGE	CIMAL */ \ R */ \
000007	42	241	з	111111	з	111101	abcd	1234	00012	yVARCHAR yXVARCHAR uZONEd		,	/* Lev=02 /* Lev=02 /* Lev=02	1*VARCHAI 1*XVARCHI 1*ZONED	R */ \ AR */ \ */ \
		1					1234	1	00015   Er 00016 * *	d of SdeSel * End of Fil	generated le * * *	command.	24 LE0-02	1-201120	
000008		*** End	l of Data	***											
									Add "Hold	keyword fol	llowing anu	fieldname	to maintai	n visibili	tu

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<u>File E</u> dit	Fo <u>n</u> t ]	[ransfer	<u>M</u> acro <u>C</u>	ptions <u>W</u>	jindow <u>H</u> elj	P									
-CBLi fo File Lis	r TSO 1. t Utilit	6B - Bu ies Sys	ild=20080 tem Windo	7021252 C w SwapLis	)pSys=z/OS st Help	1.9.0 Use	⊵r=DRA								
File Edi	t Action	s Optio	ns Window	Help	? Sv ToF	BoF wS w	R Pfx <>								
-Brows Comman	e CBL.DI d>	ST.CBLI	.SDE.SAMP	.VAR(DATT	YPES) usi	ng DRA.CBL	.I.SDO(DIRTYP	ES) 16	384 V PDSE					-+ Scroll> <mark>Csr</mark>	×
000000 Record	type: D	*** Top ATA_TYP	of Data ES_1 V(	*** 31,51)		/									
	LRecL	MyRec #2	MyBINT(1) #4	MyBIT(1) #5	MyBINT(2) #'	) MyBIT(2) 4 #5 2 BT 2 2.6	MyCHARacter #6 : AN 4.4	• MyDECimal #7 PD 0•4	MyFIXed #8	MyFLOAT #9 FB 16•4	′MyHEXadecimal ∪#10 ⊻ 20•4	MyINTeger #11	MyVARCHAR #12 AN 25.12	MyXVARCHAR #13 AN 20.10	
000001	47	<-> 241	BI 2.0.2 -	<+>	, pi 3.0.	2 81 3.2.0 - <+> 0 001001	<>	<+> 1234.56	<pre>&lt;+1&gt;     1234567-89</pre>	<+1> +0.10000000E+02	<pre></pre>	<+>	<> abcdefab	<+> ABCDEEGH	
		F 1					8888 1234	0246 1350	05C1 7BD5	4A00 1000	79BD 8ACE	00 08	888888888 12345678	CCCCCCCC 12345678	
000002	47	241	0	000000	(	0 001001	abcd	1234.56	1234567.89	+0.1000000E+02	789ABCDE	.8	abcdefgh	ABCDEFGH	
		F 1					8888 1234	0246 1350	0501 7BD5	4400 1000	ACE	08	888888888 12345678	12345678	
000003	48	241 F	3	111111	Exec	ute to	change	34.56 0246	-1234567.89 FA3E	+0.10000000E+01 4100	F1234567 F246	8 00	abcdefghi 8888888888	ABCDEFGH	
		1			re	ecord v	view.	1350	842B	1000	1357	08	123456789	12345678	
Record	type: D	ATA_TYP	ES_2 V( MuZONEd M	31,51) uINTege						MUEIXed MUDEC	imal MuCHARact	en MuRINT(1	) MuBIT(1)	MUBINT(2)	
	LNECL	#2 BN 1:1	#3 ZD 2:4	# BN 6:					#8 FP 34:4	#9 FB 38:4 PD	#10 #11 42:4 AN 46:4	#1 BI 50.0:	3 #14 2 BT 50.2:0	#13 6 BI 51.0:2	
000004	45	<-> 242	<+> 12.34	<+> 8	K+	> <+ abcdef	78>	<+ +0.10	> < 000000E+02	+1> <+ 1234567.89 123	> <> 4.56 abcd		- <+> 3 000000	- 2	
		F 2	FFFF 1234	00 08	CCCCCCCC 12345678	888888 123456	79BD 8ACE			USC1	0246 8888	SE0 Sizo	-15 01+-	1 1 2 -	
000005	46	242 F	12.34 FFFF	8 00	ABCDEFGH	abcdefg 8888888	789ABCDE 79BD	+0	ommand>	1+2	+3+.	4+	5+	Scroll> Csr	
		2	1234	08	12345678	1234567	8ACE		00001 <sup>k</sup> sd se 00002 MyR	lect from _DATA_ ec	TYPES_1 in DRA	.CBLI.SDO(D /* Lev=02	IRTYPES) \ 1*INTEGE	R u ∗⁄ 1	
Record	type:	Fiold		od to		) MUDIT(0)	Mucuopatan	M-DEC	00003 /* <b>#3</b> 00004 My	∕* Filler BINT	*/ ,*	/ /* Lev=02 /* Lev=03 /* Lev=03	2*STRUCTI 2*BINTEGI	JRE */ ` ER u */ `	
	LKe	ond		cord	BL 3.0:	/ мувіт(2) 4 #5 2 вт 3.2:6	#6 AN 4:4	PD	00005 NyH 00006 MyH 00007 MuTi	EXadecimal NTeger	,	/* Lev=03 /* Lev=02 /* Lev=02	1*HEXADE	CIMAL */	
000006	2	enu		coru		- <+> 0 000110	<> abcd	<+- 1234	00008 MyV 00009 MyX	ARCHAR VARCHAR	, , ,	/* Lev=02 /* Lev=02	1*VARCHAI 1*XVARCHI	R */ ` AR */ `	
			view.				8888	0 1	00010 MyZ 00011 MyC	ONEd HARacter 50/wel	,	/* Lev=02 /* Lev=02	1*ZONED 1*CHARAC	*/ TER */ `	11
000007	2	P				3 111101	abcd	1234	00012 MgD 00013 MgF 00014 MgE	ECIMAL IXed LOAT		/* Lev=02 /* Lev=02 /* Lev=02	1*FIXED 1*FIXED	- */ ` */ ` FX */ `	111
		1					1234	ĭ	00015   End 00016 * * *	of SdeSel genera End of File * *	ted command. *		1.1.201111		
000008		*** End	of Data	***											
									Add "Hold" k	eyword following	any fieldname	to maintai	n visibili	ty	
Te   Lin	e=1   Co	l=1   A	lt=1,1;2	Size=15	5   Recl=2	55   Fmt=V	/   Files=3	Views=3	-						
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<u>File E</u> dit	Fo <u>n</u> t	<u>T</u> ransfer	<u>M</u> acro <u>O</u>	ptions y	<u>W</u> indow <u>H</u> e	p								
-CBLi fo File Lis	or TSO 1 st Utili	.6B - B ties Sy:	uild=200801 stem Windou	7021252 ø SwapLi	OpSys=z/OS ist Help	1.9.0 Us	er=DRA							
File Edi	t Actio	ns Opti	ons Window	Help	? Sv ToF	BoF wS	WR Pfx <>							-
-Brows Commar	;e CBL.D id>	IST.CBL	I.SDE.SAMP.	.VAR(DAT	TTYPES) usi	ng DRA.CB	LI.SDO(DIRT)	(PES) 1	6384 V PDSE				Scro	-+ <mark>x</mark> ll> Csr
000000 Record	) 1 type:	*** Top DATA_TY	p <mark>of Data</mark> * PES_1 _V(3	⊳** 31,51)										
	ĹRecL	MyRec #2 BN 1:1	MyBINT(1) #4 BI 2.0:2	MyBINT( BI 3.0	(2) MyBIT(1 #4 #5 9:2 BT 2.2:	) MyBIT(2 #5 6 BT 3.2:	) MyVARCHAR #12 5 AN 26:12	MyXVARCHA #13 AN 38:10	R MyZONEd MyCHARa #14 #6 ZD 48:4 AN 4:4	cter MyDECimal #7 PD 8:4	MyFIXed #8 FB 12:4	MyFLOAT #9 FP 16:4		
000001	47	<-> 241 F 1	0		0 000000	001001	abcdefgh 88888888 12345678	ABCDEFGH CCCCCCCC 12345678	> <+> <> 12.34 abcd FFFF 8888 1234 1234	1234.56 0246 135C	1234567.89 05C1 7BD5	<+1> +0.10000000E+02 4A00 1000		
000002	2 47	241 F 1	Θ		0 000000	00100'	abcdefgh 88888888 12345678	ABCDEFGH CCCCCCCC 12345678	12.34 abcd FFFF 8888 1234 1234	1234.56 0246 135C	1234567.89 05C1 7BD5	+0.10000000E+02 4A00 1000		
000003	) 48	241 F 1	3		3 111111	11/	abcdefghi 888888888 123456789	ABCDEFGH CCCCCCCC 12345678	12.34 abcd FFFE 8888 1234 1234	-1234.56 0246 135D	-1234567.89 FA3E 842B	+0.10000000E+01 4100 1000		
Record	l type: LRecL	DATA_TYI MyRec #2 BN 1:1	PES_2 V(3 MyZONEd My #3 ZD 2:4	31,51) JINTeger #4 BN 6:2	MyXVARCH # #5 2 AN 8:1	RCH	AR MyHEXade #7 2 X 30:4	ecimal	MyFLOAT My #8 FP 34:4 Ff	yFIXed MyDECima #9 #1 B 38:4 PD 42:	NyCHARacte 0 #11 4 AN 46:4	er MyBINT(1) MyB #13 #14 BI 50.0:2 BT	IT(1) My8 50.2:6 BI	BINT(2) #13 51.0:2
000004	45	<-> 242 F	<+> 12.34 FFFF	<+> 8 00	B ABCD D CCC	-+ def 3888	> <+> 789ABCDE 79BD 8ACE	 E +0.1	+1> <+ 00000000E+02 12345 4A00	567.89 1234.5 05C1 024	> <> i6 abcd :6 8888	3 000	-+> 000	2
000005	i 46		Fields Ioi	#10 a nger	and #: visible	l1 no	789ABCD8 79BD 8ACE	E +0	-DRA.SDESELTYPE Command>  +1 00001 <sd select<br="">00002 MyRec</sd>	ES_1.T122738.CM +2+ from _DATA_TYP	X 255 V	SEQ Size=13 4+5. .CBLI.SDO(DIRTYP /* Lev=02 1*1	Alt=3,3;4 Scrol +6. ES) \ NTEGER	u */ \
Record	i type: LRecL	DATA_III MyRec	MyBINT(1)	si,51) MyBINT(	(2) MyBIT(1	) MyBIT(2	) MyVARCHAR #12	MyXVARC #13	00003 /* #3 00004 MyBINT 00005 MyBIT 00005 MyVARCH	/* Filler */ AR	, */ , , ,	/* Lev=02 2*8 /* Lev=03 2*8 /* Lev=03 2*8 /* Lev=03 2*8	INTEGER IT ARCHAR	*/ \ u */ \ */ \ */ \
000006	5 44	BI Y	ou can undo/i	use redo	std ed to brin	itor 🏼 g	5 AN 26:12	ABCDEFG CCCCCCC 1234567	OOD07         MyXVARCH           00008         MyZONEd           00009         MyCHARad           00010         MyDECimal           00011         MyFIXed	HAR cter al	, , ,	/* Lev=02 1*X /* Lev=02 1*Z /* Lev=02 1*C /* Lev=02 1*C /* Lev=02 1*F	VARCHAR ONED HARACTER ECIMAL IXED	*/`\ */`\ */`\ */`\
000007	42	ba	ack orig exec	ginal cute a	fields again.	and	abc 888 123	ABCDEFG CCCCCCC 1234567	00012 MyFLOAT 00013   End of So 00014 * * * End o	deSel generated of File * * *	I command.	∕* Lev=02 1*F	LOATHEX	*/ \
000008	}	¥0			<u>j</u>									
							L		Add "Hold" keywor	rd following an	y fieldname	to maintain vis	ibility	
Te   Lir Ma	e=1   C	ol=1   1	Alt=3,3;4	Size=1	13   Recl=2	55   Fmt=	V Files=3 2008/07/0	Views=3 4(186) 12*3	6 zos.cbl.com 37	3			4	a 36.9
							2000-01-0		- 2000 - 2000 OT	-			н	

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#### Structured Data Edit (KSDS)

- Full Edit/Browse any KSDS data set.
- Full Edit/Browse any Sequential data set.
- Navigate using full key or partial key.
- Edit/Browse KSDS by specifying key and number of records.
- Search and change strings
- Undo/Redo.





	Vista Ses	sion A	- zos_62x1	160.ses												
Fil	e Edit	Font	Transfer	Macro	Options	Window He	lp									
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ľ	-Edit()	IP ) JO	E.CBLI.	MBRI IS	T.SOURCE.K	(SDS using I	AC. CBL L. SDO( MB	RLIST) 4	312 V KSD9	: 1 15						-+×
	Comman		n IItili	ties m	enu inclu	ling point/	boot options		11 1 1000	1 10						Scroll> Csr
	Record	type: Membe	CompUn	it Fi Ven	(39) Offse RecNo	et=0 Reclev	, Language RecT	upaX BacTup		ADAE1 ag	FLAVAl	Datal an		ecCount		
		#3 4N 1.	.' 9.70	_#4 9•2	#5 BN 12•4	#( BN 16•/	5 #7 #9	#1 4•2 BN 24	10 #11	, #12	#13 Y 25•1	#15 BN 30•2	#16 ¥ 22•2	#18 BN 36•4		
	000001	<+ SDEFG	>	<-> < 150	+1>	<	<pre>&gt; &lt;&gt; &lt;&gt; HLAsm 0002</pre>	<	2	<>>	<> 00	<+>	<> <	+1>		
	Record	type:	Source	V(1!	55,251) 04	fset=0										
		Membe #3	er -	Ver #4	RecNo #5		cord Koy	,	N ALevel 10 #11	. ADAFlag . #12	FLevel #13	DataLen #15	SRCESD #16	SRCStmt #17	SRCInRec #18	SRCParRec #19
		AN 1: <+	8 ZD >	9:3 <-> <-	BN 12:4 +1≻	«	cord key	21:	2 BN 23:1	X 24:1	X 25:1	BN 30:2 <+>	BN 32:4	BN 36:4	BN 40:4	BN 44:4 <+1>
	000002	SDEFG SDEFG	ETO	150	10				18 3 18 3	: 00 : 00	01 01	212 212	0 0	1 2	1 2	0
	000004	SDEFC SDEFC	<u>IETO</u>	<u>150</u>	<u>17</u> 18	243 243	8 HLASM 0030 8 HLASM 0030		18 3 18 3	: 00 : 00	01 01	212 212	0 0	3 4	3 4	0
	000006	SDEFG SDEFG	IETO IETO	<u>150</u> <u>150</u>	<u>19</u> 20	243 243	8 HLAsm 0030 8 HLAsm 0030		18 3 18 3	: 00 : 00	01 01	212 212	1	1927 6	252 6	0
	000008	SDEF6	IETO IETO	$\frac{150}{150}$	<u>21</u> 22	243 243	8 HLASM 0030 8 HLASM 0030		18 3 18 3	00	01 01	212 212	1	7	7	0
	000010 000011	SDEF6	IETO IETO	<u>150</u>	23 24	243 243	8 HLAsm 0030 8 HLAsm 0030		18 3 18 3	00	01 01	212 212	1	9 1927	9 252	0
	000012	SDEFG SDEFG	i <u>eto</u> i <u>eto</u>	150 150	<u>25</u> 26	243 243	8 HLASM 0030 8 HLASM 0030		18 3 18 3	00	01 01	212 212	1	11 12	11 12	0
	000014	SDEFG SDEFG	iETO iETO	150 150	27	24: 24:	8 HLASM 0030 8 HLASM 0030		8 3	00	01 01	212 212	1	13 15	13 15	0
	000016	SDEFG	ETO	$\frac{150}{150}$	30	243	6 HLASM 0030 8 HLASM 0030		18 3 18 3	00	01	212	1	16 18	16 18	Ö I
	000018	SDEFG	ETO	$\frac{150}{150}$	33	243	6 HLASM 0030 6 HLASM 0030			00	01	212	1	19	19	0
	000020	SDEFG	<u>ETO</u>	$\frac{150}{150}$	36	24	) HLHSM 0030 } HLASM 0030			00	01	212	1	22	23	0
	000022	SDEFG	ETO	$\frac{150}{150}$	<u>30</u> 41	24	) HLASM 0030 } HLASM 0030			00	01	212	1	24 27	27	0
	000024	SDEFG	ETO	$\frac{150}{150}$	45	243	) HLASM 0030 ) HLASM 0030			00	01	212	1	20 31 24	20 31 24	0
	000027	SDEFG	ETO	$\frac{150}{150}$	50	243	) HLAsm 0030			00	01	212	1	36	36	0
	000029	SDEFG	ETO	150 150	I	nforma	tion Bar		8 3	00	01 01	220 220	1	39 40	24 26	65 65
	000031	SDEFG SDEFG	ETO ETO	150 150	55		HLAsm 0030		18 3 18 3	: 00 : 00	01 01	220 220	- 1 1	41 42	27 28	65 65
	000033	SDEFG SDEFG	ETO ETO	150 150	<u>56</u> 57		HLAsm 0030 HLAsm 0030	4	18 3 18 3	: 00 : 00	01 01	220 220	1 1	43 44	29 30	65 65
	000035	SDEFG SDEFG	<u>ieto</u> ieto	<u>150</u> 150	<u>58</u> 59		) HLAsm 0030 ) HLAsm 0030		18 3 18 3	: 00 : 00	01 01	220 220	1 1	45 46	31 32	65 65
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	000039	SDEFG SDEFG	ETO ETO	150 150	<u>62</u> 63	999 999	HLASM 0030 HLASM 0030		8 3	00	01 01	220 220	1	49 50	35 36	65 65
	000041	SDEFG	12110	150	64		9 HLASM 0030		18 3	00	01	220	1	51	37	65

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0000	25 SDEF	GETO	150	45	243	HLASM	0030	48	3 00	01	212	1	31	31	0
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0000	28 <u>SDEF</u> 29 <u>SDEF</u>	GETO	150	<u>51</u> 52	999	HLASM HLASM	0030	48 48	3 00	01 01	220	1	37 39	65 24	36 65
0000	30 <u>SDEF</u> 31 <u>SDEF</u>	GETO	150 150	<u>53</u> 54	999 999	HLAsm HLAsm	0030 0030	48 48	3 00 3 00	01 01	220 220	1 1	40 41	26 27	65 65
0000	32 <u>SDEF</u> 33 <u>SDEF</u>	<u>GETO</u>	<u>150</u> 150	<u>55</u> 56	999 999	HLAsm HLAsm	0030 0030	48 48	3 00 3 00	01 01	220 220	1	42 43	28 29	65 65
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0000	36 SDEF	GETO	150	59	999	HLASM	0030	48	3 00	01	220	1	46	32	65
0000	38 SDEF	GETO	150	<u>61</u>	999	HLASM	0030	48	3 00	01	220	1	48	33 34	65
0000	39 <u>SDEF</u> 40 <u>SDEF</u>	GETO	150	<u> </u>	999	HLASM HLASM	0030	48 48	3 00	01 01	220	1 1	49 50	35 36	65 65
0000	1 <u>SDEF</u>	GETO	150	64	999	HLAsm	0030	48	3 00	01	220	1	51	37	65

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002	2540	SDEFH	EX0	150	20	2	243	HLASM	0030	48	3 00	01	212	0	2	2	0
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002	2546	SDEFH SDEFH	EX0	150 150	27	2	243 243	HLAsm HLAsm	0030 0030	48 48	3 00 3 00	01 01	212 212	1	8	8	0
002	2548	SDEFH	EX0	150	30	2	243	HLAsm	0030	48	3 00	01	212	1	11	11	Ö
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002	2551 2552	SDEFH SDEFH	EXO : EXO :	150 <u>-</u>	34	22	243 243	HLASM HLASM	0030	48 48	3 00	01 01	212 212	1 1	15 16	15 16	0
002	2553 2554	<u>SDEFH</u> SDEFH	<u>EX0</u> : EX0 :	150 <u>-</u> 150 -	37 41	2	243 243	HLAsm HLAsm	0030 0030	48 48	3 00 3 00	01 01	212 212	1 1	18 22	18 22	0
002	2555 2556	SDEFH SDEFH	<u>EX0</u> : EX0 :	<u>150</u> 150	42	2	243 243	HLAsm HLAsm	0030 0030	48 48	3 00 3 00	01 01	212 212	1 1	23 26	23 26	0
002	2557	SDEFH	EX0	150	48	2	243	HLAsm	0030	48	3 00	01	212	1	29	29	0
002	2559	SDEFH	EXO :	150	51	40	999	HLAsm	0030	48	3 00	01	220	1	32	65	31
002	2560	SDEFH SDEFH	EXO :	150 150	53		999	HLHSM HLASM	0030	48	3 00	01	220	1	34	24	65
002	2562 2563	<u>SDEFH</u> SDEFH	<u>EX0</u> : EX0 :	150 <u></u> 150 <u></u>	<u>54</u> 55		999 999	HLAsm HLAsm	0030 0030	48 48	3 00 3 00	01 01	220 220	1 1	36 37	27 28	65 65
002	2564 2565	<u>SDEFH</u> SDEFH	<u>EX0</u> : EX0 :	<u>150</u> 150	<u>56</u> 57		999 999	HLAsm HLAsm	0030 0030	48 48	3 00 3 00	01 01	220 220	1 1	38 39	29 30	65 65
002	2566	SDEFH SDEFH	EX0	150	<u>58</u> 59	0.0	999	HLAsm HLAsm	0030	48 48	3 00 3 00	01 01	220 220	1	40 41	31 32	65 65
002	2568	SDEEH	EXO	150	60		999	HLAsm	0030	48	3 00	01	220	1	42	33	65
002	2570	SDEFH	EX0	150	62		999	HLASM	0030	48	3 00	01	220	1	43	35	65
002	2571 2572	SDEFH SDEFH	EXU EXO	150	<u>63</u> 64		999	HLASM HLASM	0030	48 48	3 00	01	220	1	45 46	36 37	65
002	2573 2574	SDEFH SDEFH	EXO EXO	150 <u>-</u> 150 <u>-</u>	<u>65</u> 66		999 999	HLAsm HLAsm	0030	48 48	3 00 3 00	01 01	220 220	1 1	47 48	38 39	65 65
002	2575 2576	SDEFH SDEFH	EX0 EX0	150 <u>-</u>	<u>67</u> 68		999	HLAsm HLAsm	0030	48 48	3 00 3 00	01 01	220 220	1	49 50	40 41	65 65
002	2577	SDEEH	EXO	150	<u>69</u> 70		999	HLAsm	0030	48	3 00	01	220	1	51	42	65
002	2579	SDEFH	EX0	150	71		999	HLASM	0030	48	3 00	01	220	1	53	44	65
002	2580	SDEFH	<u>exu</u> :	150	72		199	HLASM	0030	48	3 00	01	220	1	54	45	65

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File Edit Font Transfer Macro Options Window Help

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2009/03/10(069) 14:18 zos.cbl.com 0.4



Alt=0,0;2 | Size=800 | Recl=255 | Fmt=V | Files=1 | Views=1 | 2009/03/03 17: 2009/03/03(062) 17:06 zos.cbl.com 0.4



File Edit Font Transfer Macro Options Window Help

CBLe File Edit Actions Options Utilities Window SwapList Help

Command>       Scroll> Csr         000390       The next command will tile this window from the top-left corner.       040         000391       Scroll> Csr       040         000392       W=77 d=20; mw x=3 y=2; sos makecurr; up 1; ww mw x=81 y=2       040         000393       Now we'll add the SDE edit window, occupying the rest of the       Execution         000394       (sd edit       %user%.CBLI.SDE.SAMP.VAR(DatSALES) \       000395         000395       using       %user%.CBLI.SDO(CobSALES) \       040         000396       jszw d=31; mw x=3 y=24; TEdit e %fid%   Returns focus to this       041         000399       view a single record-type, and switch off medow-lines       041         000400       (sd where EXPIRES       < %yyyy**mm%       042         0004005       and for anomalies       042       042         040406       (sd where VALID-FROM > EXPIRES       More commands on next page /.       042	Scrolly Csr Scrolly Csr Scrol
Edit         DRA.CBLI.SDE.SAMP.VAR(DATSALES) using DRA.CBLI.SDO(COBSALES)         16384 V PD           Command>         000000 **** Top of Data ***         16384 V PD         16384 V PD           Record type:         REC-CUST         F(196) Offset=0         16384 V PD         16384 V PD           CUST-ID PASS         LASTNAME         FIRSTNAME         COUNTRY POSTCODE         #2 #3         #4         #5         #6         #7           FB 1:4 AN 5:15         AN 20:15         AN 35:15         AN 50:2 AN 52:12         <+1->           C+>         <+1>         <+1>         <+1->         <+1->           000001         9156 78fj2foa         Ramstein         Hans         UK         DN4 9BR           000002         7037 chico         Richards         Denise         UK         CF31 1BX           000003         6712 benj         Hill         Mike         US         75204	CITY       HOUSE STREET       EMAIL         #8       #9 #10       #11         AN 64:15       FB 79:4 AN 83:25       AN 108:35         <++1>      ++1>         DONCASTER       124 Springwell Lane       DRich153@fsnet.com         BRIDGEND       1 Cald Avenue       DRich153@fsnet.com         DALLAS       2828 Benton Street       MikeH@proveit.com
Record type: REC-CARD       F(58) Offset=0         CUST-ID       SEQ CR-OR-DR COMPANY       CARD-NUMBER NAME       V         #2       #3       #5       #6       #7       #8         FB 1:4       FB 5:2 AN 7:1       AN 8:7       PD 15:9 AN 24:25	VALID-FROM EXPIRES       SEC         #9       #10       #11         PD 49:4 PD 53:4 PD 57:2
000006       9156       557833807       f       18385       84.82       4.73       20051022       2005031         000007       9156       696534904       1       19692       128.03       7.94       20070823       2005090         Record type: REC-PAYMENT F(26) Offset=0 CUST-ID RECEIVED-DATE CARD-NUMBER ORDER-REF AMOUNT #2         #2       #3       #4       #5       #6         CDRA.CBLI.CMX         Te Line=390       Col=1       Alt=0,0;1       Size=602       Recl=1020       Fmt=V       Files=2       Views=3	2009/03/10 12:27:40

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File Edit Font Transfer Macro Options Window Help



000400 000401 000402 ... using the same record-type, let's <u>look for a second second second</u> 0419 sd where EXPIRES 000403 0420 ໍ%yyyy%%nm‰ We car sour a command to all rec-types . Show all excluded lines. 000404 0421 Ksd SdeRtAll reset x 000405 | ... and for anomalies ... Hold 'CUST-ID' for all rec-types. 0422 <sd SdeRtAll sel cust-id h,\* 000406 <sd where VALID-FROM > EXPIRES 0423 <sd SdeRtAll where cust-id = 2991; sd top; sd shadow off all More commands on next page /.

#### -Edit DRA.CBLI.SDE.SAMP.VAR(DATSALES) using DRA.CBLI.SDO(COBSALES) 16384 V PDSE Command>

Scroll> Cs

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)000 \*\*\* Top of Data \*\*\*

Record	lype. Neu-	UHNU	F(30)	offsel-o					
	CUST-ID	SEQ	CR-OR-DR	COMPANY	CARD-NUMBER	NAME	VALID-FROM	EXPIRES	SEC
	#2	#3	#5	#6	#7	#8	#9	#10	#11
	FB 1:4 FB	5:2	AN 7:1	ÄN 8:7	PD 15:9	AN 24:25	PD 49:4	PD 53:4	PD 57:2
	<+>	$\langle - \rangle$		<+->	<+>	<+2>	<+>	<+>	<->
000004	1124	0	D	VISA	8754875676474656	CARL SLAIN	200610	201307	778
000005	9156	•	D	DELTA	1282937860235632	MR HANS R RAMSTEIN	200704	200804	275
000009	1564	1	С	DELT	6754875676474656	MR C SLAIN	200409	200501	719
000012	9804	- 2	С	Aqua	2890100161893840	Joseph B Jones	200401	200512	227
000013	9928	- 2	С	MAST	8965229969967546	Mr Bruce W Howard	200512	200507	461
000014	6239	- 4	D	VISA	1098717650442152	Msr J Cousteau	200504	200604	881
000029	2991	Θ	X	Aqua	8627368960235435	Jacque Cousteau	200405	201309	649
000030	6792	- 6	ω	VISA	9463829326644146	BRUCE W HOWARD	200403	200605	832
000045	1472	- 5	D	VISA	1282937860235632	Tayler Martinez	200403	201212	779
000046	9804	- 6	D	MAST	2637970469695876	Mr JOeseph B jones	200509	201001	302
000047	9316	- 5	С	DELTA	1982894749696023	Taylor martines	200711	200506	513
000048	9156	1	С	MAST	7678746370682730	Mr H R Ramstein	199807	199909	280
000049	6958	3	С	DELTS	8474563326644448	Alan MacDonald	200706	200911	417
		_							

-DRA.CBLI.CMX **+**+

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File Edit Font Transfer Macro Options Window Help



--CBLe File Edit Actions Options Utilities Window SwapList Help wS wR BL.DIST.CBLI.DIST.CMX(SDE):2 -CBL.DIST.CBLI.DIST.CMX(SDE):1 1020 V PDSE Alt=0,0;1 -+ 1020 V PDSE Size=602 Alt=0,0;1 Size=602 -+ Command> Scroll> Csr mmand> Scroll> Csr SDE178I 8 lines of record type REC-CARD selected by where EXPIRES ....+....1.....+.....2....+.....3....+.....4.....+.....5.....+.....6.....+.....7 ... view a a different record-type, and select a few columns ... 0407 200903. sd view REC-CUST ; sd select COUNTRY,CITY,POSTCODE; sd reset; sd up m 000391 <szw w=77 d=20; mw x=3 y=2; sos makecurr; up 1; ww mw x=81 y=2;down pa 0408 000392 0409 000393 | Now we'll add the SDE edit window, occupying the rest of the screen. 0410 | ... now hold these visible, but add all the others cols on the end.. 000394 sd edit %user%.CBLI.SDE.SAMP.VAR(DatSALES) 0411 sd view REC-CUST 🗦 sd select COUNTRY,CITY,POSTCODE hold,\* 000395 %user%.CBLI.SDO(CobSALES) 0412 You can now scroll left/right, keeping important cols in view. 000396 jszw d=31; mw x=3 y=24; TEdit e %fid% | Returns focus to this file. 0413 000397 0414 ... return to viewing all record-types ... V' is minimum abbreviation for 'VIEW'. 000398 Now let's issue a few interesting command sequences ... 0415 (sd v 000399 ... view a single record-type, and switch off shadow-lines ... 0416 000400 sd view REC-CARD 🏓 sd shadow off all 0417 By turning on shadow-lines, we can see that some records are 'X'd . 000401 0418 sd shad on all 000402 ... using the same record-type, let's look for expired cards ... 0419 (sd where EXPIRES 👝 < %yyyy%%mm% 0420 We can use the 'SdeRtAll' tool to issue a command to all rec-types . 000403 0421 Show all excluded lines. 000404 <sd SdeRtAll sel \_\_cust-id h,\*</pre> Hold 'CUST-ID' for all rec-types. 000405 0422 000406 <sd where VALID-FROM > EXPIRES More commands on next page /. 0423 (sd SdeRtAll where cust-id = 2991; sd top; sd shadow off all -Edit DRA.CBLI.SDE.SAMP.VAR(DATSALES) using DRA.CBLI.SDO(COBSALES) 16384 V PDSE -+ Command> Scroll> Cs Record type: REC-CARD F(58) Offset=0 CUST-ID SEQ CR-OR-DR COMPANY CARD-NUMBER NAME VALID-FROM EXPIRES SEC #3 #5 #6 #7 #8 #9 #11 #2 #10 FB 1:4 FB 5:2 AN 7:1 ÄN 8:7 PD 15:9 AN 24:25 PD 49:4 PD 53:4 PD 57:2

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200704

200409

200401

200512

200504

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200711

199807

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881

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280

Commands to create different views of the data can be stored in the commands file and used time and time again.

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9156

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3064 \*\*\* End of Data \*\*\*

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1282937860235632 MR HANS R RAMSTEIN

8965229969967546 Mr Bruce W Howard

6754875676474656 MR C SLAIN

2890100161893840 Joseph B Jones

1098717650442152 Msr J Cousteau

9463829326644146 BRUCE W HOWARD

1982894749696023 Taylor martines

7678746370682730 Mr H R Ramstein

2009/03/10(069) 12:31 zos.cbl.com 0.3

Changed View

### **Report Windows**

- Define Structure for any dataset on disk.
  - No copybook required.
- View dataset using structure.
- SQL type filtering (SELECT/WHERE) clauses
- SORT on headings (like list windows)
- Command can be saved for later execution.
- Resulting report can be saved or printed.





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Nista Session A - zos_62x160.ses		
<u>File E</u> dit Fo <u>n</u> t <u>T</u> ransfer <u>M</u> acro <u>O</u> ptions <u>W</u> indov	v <u>H</u> elp	
-CBLi for TSO 1.5B - Build=200711200954 OpS File List Utilities System Window SwapList	ys=z∕OS 1.6.0 User=DRA Help	
-CBLe File Edit Actions Options Window Help ?	Sv ToF BoF wS wR Pfx < >	
		Doport Title
SDE - Structures	-WORLD'S 50 BUSIEST AIRPORTS, 1997 View Back Forward FDB Edit Refresh Help Command> _	Keport nue
Report window	NameCity Country Passengers ATLANTA ATLANTA US 47649470 BALTIMORE INTL. BALTIMORE US 2304	
	CHARLES DE GAULLE PARIS FR 16040641 CHARLOTTE INTL. CHARLOTTE US 12978582 COPENHAGEN COPENHAGEN DEN 10622814 DALLAS/FT. WORTH DALLAS US 41875444	Sort by clicking on Headings
	DENVER DENVER US 32355000 DUESSELDORF DUESSELDORF FRG 9456468 DULESS WASHINGTON, D.C. US 10784767 FIUMICINO ROME IT 13701783 FRANKFURT FRANKFURT FRG 19802229	
	FUKUOKA FUKUOKA JA 10027862 GATWICK LONDON UK 19372600 HEATHROW LONDON UK 34742100 HONG KONG HONG KONG UK 12667434	Alt=29,29;29 -+* Scroll> Csr .+4+5+6+7
	HOUSTON INTL. HOUSTON US 15388967 KANSAS CITY INTL. KANSAS CITY US 9445778 KENNEDY NEW YORK US 30192477 LA GUARDIA NEW YORK US 24225913	char(19) , char(16) , char(05) , char(03) , char(09)
	LOS ANGELES INTL. LOS ANGELES US 44873113 MEMPHIS INTL. MEMPHIS US 10815549 METRO WAYNE DETROIT US 19746992 MEXICO CITY MEXICO CITY ME 10327348	dec(08)
	MIAMI INTL. MIAMI US 24036104 MINNEAPOLIS MINNEAPOLIS US 17858986 MUNICH MUNICH FRG 9125266 NATIONAL WASHINGTON, D.C. US 15439860	rom CBL.AIRPORTS.BIN \ title "WORLD'S 50 BUSIEST AIRPORTS, 199
	NEWHRK         OS         23475254           O'HARE         CHICAGO         US         56280545           OAHU         HONOLULU         US         20380282           ORLANDO INTL.         ORLANDO         US         14781222           ORLY         PARIS         FR         20427446	<mark>System ***</mark> 07/08/08 Fname not yet supported.
	OSAKA OSAKA JA 19291209 PEARSON TORONTO CAN 17962401 PHILADELPHIA PHILADELPHIA US 15427317 PHOENIX PHOENIX US 14771236	
	000085 (ld /V1R6 000085 (ld / 000086 (ld / 000087 .demo *** My DEMO Stuff 000088 (lc sys1.m 000089 (ld sys1.m	*** 2007/11/15 list all libs prefixed sys1.m list all libs prefixed sys1.m
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👋 Vista Session A - zos_62x160.ses					
<u>File Edit Font Transfer Macro Options Window H</u>	lelp				
-CBLi for TSO 1.58 - Build=200711200954 OpSys=2	z/OS 1.6.0 User=DRA				
File List Utilities System Window SwapList Help	)				- 18
File Edit Actions Options Window Help ? Sv	ToF BoF wS wR Pfx	$\langle \rangle$			
SDE - Structures	-WORLD'S 50 BUSIES	T AIRPORTS, 1997		-+ <mark>×</mark>	
	View Back Forward H   Command> <mark>_</mark>	DB Edit Refresh H	≧lp		
	Name	City	Country F	Passengers	
	ATLANTA BALTIMORE INTL.	ATLANTA BALTIMORE	US US	47649470 9146286	
List Views:	BOSTON CHARLOTTE INTL	BOSTON CHARLOTTE	US	23283047	
	O'HARE	CHICAGO	US	56280545	
All previous	DENVER	DENVER	US	32355000	
selections are	OAHU	HONOLULU	US US	19746992 20380282	
shown.	HOUSTON INTL. KANSAS CITY INTL.	HOUSTON Kansas City	US US	15388967 9445778	
511011111	LAS VEGAS INTL.	LAS VEGAS LOS ANGELES	US	14644962 44873113	A1+=29.29:29 -+ <del>2</del>
	MEMPHIS INTL.	MEMPHIS	US He	10815549	Scroll> Csr
	MINNEAPOLIS	MINNEAPOLIS	US	17858986	
	KENNEDY	NEW YORK NEW YORK	US	24225913 30192477	char(19)
	NEWARK ORLANDO INTL.	NEWARK ORLANDO	US US	23475254 14781222	char(05) , char(03) ,
	PHILADELPHIA PHOENIX	PHILADELPHIA PHOENIX	US US	15427317 14771236	char(09) ,\ dec(08)
	PITTSBURGH	PITTBURGH	US US	17457801	
	SAN DIEGO INTL.	SAN DIEGO	US	10101030	
	SEATTLE INTL.	SEATTLE	US	14445482	) title "WORLD'S 50 BUSIEST AIRPORTS, 199
	ST. LOUIS TAMPA	ST. LOUIS TAMPA	US US	20362606 10008869	
	DULLES NATIONAL	WASHINGTON, D.C. WASHINGTON, D.C.	US US	10784767 15439860	
					le System *** 2007/08/08 Ename not vet supported.
					*** 2007/11/15 list all libs prefixed sys1.m
					list all libs prefixed sys1.m
	Line 1 of 31   Col	1 of 55   Views 2	select	* where Coun	

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File Edit Font Transfer Macro Options Window Help

-CBLi for TSO 1.6B - Build=200807021252 OpSys=z/OS 1.9.0 User=DRA File List Utilities System Window SwapList Help -CBLe File Edit Actions Options Window Help ? Sv ToF BoF wS wR Pfx <>

#### **SDE - Structures**

	-WORLD'S 50 BUSIE View <mark> Back Forward</mark>	ST AIRPORTS, 1997 FDB Edit Refresh Hel	lp		-+ <mark>x</mark>			
List of all views	select * select * where	Country = US sort (	City F	Passengers				
available.	BALTIMORE / ITL. BOSTON	BALTIMORE L BOSTON L	JS JS	9146286 23283047				
	O'HARF DALL FT. WORTH	CHARLOTTE C CHICAGO L DALLAS L	JS JS JS	12978582 56280545 41875444				
	MEN J WAYNE	DENVER L DETROIT L HONOLULU L	JS JS JS	32355000 19746992 20380282				
	USTON INTL. ANSAS CITY INTL. LAS VEGAS INTL.	HOUSTON L KANSAS CITY L LAS VEGAS L	JS JS JS	15388967 9445778 14644962		.+5+	Scroll> C	-+ <mark>×</mark> sn
	LOS ANGELES INTL. MEMPHIS INTL. MIAMI INTL.	LOS ANGELES U MEMPHIS U MIAMI U	JS JS JS	44873113 10815549 24036104		r T) \ T) replace	case(iqnore)	nam
	MINNEAPOLIS LA GUARDIA KENNEDY	MINNEAPOLIS U NEW YORK U NEW YORK U	JS JS JS	17858986 24225913 30192477		T); v *		
	NEWARK ORLANDO INTL. PHILADELPHIA	NEWARK L ORLANDO L PHILADELPHIA L	JS JS JS	23475254 14781222 15427317		ows) ***		
Select the view	PHOENIX PITTSBURGH SALT LAKE CITY	PHOENIX L PITTBURGH L SALT LAKE CITY L	JS JS JS	14771236 17457801 10163883				
by clicking.	SAN DIEGO INTL. SAN FRANCISCO	SAN DIEGO L SAN FRANCISCO L SFATTLE L	JS JS IS	10101030 29812440 14445482		S)		
	ST. LOUIS TAMPA	ST. LOUIS U TAMPA U	ĴŜ JS	20362606 10008869 10784767		har(19) har(16) har(95)		
	NATIONAL	WASHINGTON, D.C. L	ĴŜ	15439860		har(03) har(09)		
						RPORTS.BIN RLD'S 50 BL	SIEST AIRPORTS,	199
	Line 1 of 31   Col	. 1 of 55   Views 2	select	* where Count	ry = US iso			
		000542   AMILIN 000543   AMILIN 000544   AMILIN	HE.1 = SE HE.2 = V( HE.3 =	ELCOPY CAT				

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File Edit Fort Innafe Macro Options Window Help         Child Fort 100 4.59 - Build 20071200554 OpSyster205 16.6 User-DRA         File Edit Actions Options Window Help       ? Sv ToF BOF wS wR Pfs < ?         SDE - Structures         Wide Back Provand FDB Edit Refresh Help         The Back Provand FDB Edit Refresh Help         Owner         Browse Backwards and Forwards thru previous Selections.         Previous Selections.         Wide Back Provand FDB Edit Refresh Help         Bit Hong Window Help         State Fried Backwards and Forwards thru previous Selections.         Bit Hong Window Help         Bit Hong Win	Vista Session A - zos_62x160.ses					
File Ist for TSD 4.5.9 - Build-200714200554 05/9272/03 4.5.0 Usgr=DRA         File Ist Hattons Options Undow Halz       ? 3v Tof BoF vis wR Ffx ()         SDE - Structures	<u>File Edit Font Transfer Macro Options Window</u>	<u>H</u> elp				
File List Utilities System Undow Help       TSV TOF BOF WS WR Pfx ()         SDE - Structures         Interest Control Passengers         Passengers         Control Passengers         Control Passengers         Passengers         Control Passengers         Passengers         Passengers         Control Passengers <td>-CBLi for TSO 1.58 - Build=200711200954 OpSys</td> <td>=z/OS 1.6.0 User=DRA</td> <td></td> <td></td> <td></td> <td></td>	-CBLi for TSO 1.58 - Build=200711200954 OpSys	=z/OS 1.6.0 User=DRA				
File Edit Actions Options Window Help 7 Sv ToF BoF wS wR Pfx () SDE - Structures Browse Backwards and Forwards thru previous Selections. Half I Mit. Help Tro. Work US 2280847 CHARLOTTE INTL. Help Work US 2280847 CHARLOTTE INTL. Help Tro. Work US 2280847 CHARLOTTE INTL. Help Tro. Work US 2480822 CHARLOTTE INTL. HELP Tro. USA MOELES US 1484452 CHARLOTTE INTL. HELP TRO. WORK US 2480819 CHARLOTTE INTL. HELP TRO. WORK US 2480819 CHARLOTTE INTL. HELP TRO. WORK US 2480819 CHARLOTTE INTL. HELP TRO. WORK US 2487554 CHARLOS ST. LOUIS SHITE INTL. HELP TRO. WORK US 2487554 CHARLOS SHIT FACE CITY US 1668883 SHIT FACE CITY US 1668885 SHIT FACE CITY US 166885 SHIT FACE C	File List Utilities System Window SwapList He CBLe	lp				-
SDE - Structures	File Edit Actions Options Window Help ? Sv	ToF BoF wS wR Pfx				
Hort Storeuted	SDF - Structures					
Browse Backwards and Forwards thru previous Selections.       ILANTA BALTIMORE INTL. CHARLIN TE INTL. O'HARE DALLAS'TT. WORTH DENVER DALLAS'TT. WORTH DENVER DENVER DENVER DENVER DALLAS'TT. WORTH DENVER DENVER DALLAS'TT. WORTH DENVER DEN		-WORLD'S 50 BUSIEST View Back Forward FD Command' _	AIRPORTS, 1997 )B Edit Refresh Hø	≥lp	-+ <mark>x</mark>	
*** 2007/11/15 list all libs prefixed sys1.m list all libs prefixed sys1.m edit open member Line 1 of 31   Col 1 of 55   Views 2   select * where Coun	Browse Backwards and Forwards thru previous Selections.	Command Name	ATLANTA BALTIMORE BOSTON CHARLOTTE CHICAGO DALLAS DENVER DETROIT HONOLULU HOUSTON KANSAS CITY LAS VEGAS LOS ANGELES MEMPHIS MIAMI MINNEAPOLIS NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK NEWARK ORLANDO PHILADELPHIA PHOENIX PITTBURGH SALT LAKE CITY SAN DIEGO SAN FRANCISCO SEATTLE ST. LOUIS TAMPA WASHINGTON, D.C. WASHINGTON, D.C.	Country Pa US US US US US US US US US US US US US	47649470 9146286 23283047 12978582 56280545 41875444 32355000 19746992 20380282 15388967 9445778 14644962 44873113 10815549 24036104 17858986 24225913 30192477 23475254 14781222 15427317 14771236 17457801 10163883 10101030 29812440 14445482 20362606 10008869 10784767 15439860	Alt=29,29;29 -+M Scroll> Csr t4t5t6t7 char(19) , char(19) , char(05) , char(03) , char(09) , dec(08) from CBL.AIRPORTS.BIN ) title "WORLD'S 50 BUSIEST AIRPORTS, 199 le System *** 2007/08/08 Fname not yet supported. *** 2007/11/15 list all libs prefixed sys1.m list all libs prefixed sys1.m edit open member

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# File Search and Update (FSU)

- Any mix of data set input (including wild cards).
- Optionally Update in place.
- Structures can be applied to further qualify search arguments (e.g. If column2=xyz ).
- Audit Log.
- FSUUNDO facility to reverse all changes made.



- **- X** 

File Edit Font Transfer Macro Options Window Help

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<mark>-CBLe</mark> File Edit Actions Options Utilities Window SwapList Help wS wR

FSU - File Search/Update -+* Run(PF4) GenerateCLI(PF2) Help FIND and/or CHANGE strings in multiple files/PDS(E) members INPUT Fileid Mask: or Fileid format={volser:}dataset.name{(member)} inc wildcards.	FSU Panel
Volume Mask: DSN Mask: Member Mask: V Enter "/" to activate each of the options below. Word Prefix Suffix FIND:	
in Start Col: End Col: and/or CHANGE: All Last from: to: Immediate UPDATE	ze=783 Alt=3,3;4 -+# Scroll>Csr 3+4+5+6+7
in Start Col:End Col: Specify optional SQL-style SELECT/WHERE Column SELECT: Filter WHERE:	General Resource Profiles Group Profiles and User-To-Group User Profiles System Options Remote Sharing Facility
Specify optional structure (CopyBook) overlay USING (SDD) Structure : VIEW (RTO) Record-type:	Digital Certificates CF commands directly o System Information.
000761 < TsoC permit CBLI.S 000762   After PERMIT commands 000763 < TsoC setropts raclis 000764 < SYSInfo   000765	YSTEM CLASS(FACILITY) id(%user%) access(non , you must issue SETROPTS REFRESH for it to take ef t (FACILITY) refresh Test access.
000767   List RACF User Profil 000767 < TsoC lu (%user%) CICS 000769 (	e. DCE DFP KERB LANGUAGE LNOTES \ NETVIEW OMVS OPERPARM OVM TSO \ ATTR
000772   RACF Dataset Profile 000773 < equ dsn %user%.RACF. 000774 < e %dsn 000775 < TsoC addsd '%dsn 000775 < TsoC listdsd da('%dsn 000776 < TsoC permit '%dsn 000777 < TsoC permit '%dsn 000779 < TsoC listuser 000778 < TsoC listuser	*** TEST %   Create a test file. %' uac(alter)   Add a dataset profile with Universa %') all   List dataset profile. %' id(%user%2) access(none)   Add a restriction for %' id(%user%2) delete   Remove the restrictio
000781 000782 <b cbl.cmx(sde)<br="">000783 <b cbl.cmx(fsu)<="" td=""><td></td></b></b>	

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File Edit Font Transfer Macro Options Window Help

—CBLe File Edit Actions Options Utilities Window SwapList Help — wS wR

-FSU - File Search/Update		In	put Files to search
Run(PF4) GenerateCLI(PF2) Help FIND and/or CHANGE string INPUT Fileid Mask: <u>cbl.cmx(*)</u> or Fileid format={v	s in multiple files/PDS(E) me olser:}dataset.name{(member)}	embers } inc wildcards.	
Volume Mask: DSN Mask: Member Mask:			String to search for
<pre>/ Enter / to activate pach of th / FIND: key / _ in Start Col: and/or</pre>	End Col:		
_ CHANGE: All∠ First from: to: in Start Col:	LastIm Im _End Col:Im	ze=783 Alt=3,3;5 mmediate UPDATE3+4+	-+ <mark>x</mark> Scroll> Csr 5+6+7
Specify optional SQL-s _ Column SELECT: _ Filter WHERE:	tyle SELECT∕WHERE	uff *	** 2007/11/15 .demo libs prefixed sys1.m libs prefixed sus1 m
Specify optional struc USING (SDO) Structure : VIEW (RTO) Record-type:	ture (CopyBook) overlay	edit open   edit open mem	n member ber
	000043 <lvc 000044 <lvc 000045 <lvc 000045 <fs 000045 <fs< td=""><td>ol cblmct ol z* ol z*; where SMS=N &amp; FREECYL &gt;= 1000 sort SYS1.maclib(d*) 'mnote' firstuse</td><td>FREECYL d</td></fs<></fs </lvc </lvc </lvc 	ol cblmct ol z* ol z*; where SMS=N & FREECYL >= 1000 sort SYS1.maclib(d*) 'mnote' firstuse	FREECYL d
Select Find or Change	000049 <e c<br="">000050 <e c<br="">000051 <e c<="" td=""><td>cbl.cmx(jge); setpt 68 100; .Cal cbl.cmx(jge); cbl.cmx(nbj);</td><td></td></e></e></e>	cbl.cmx(jge); setpt 68 100; .Cal cbl.cmx(jge); cbl.cmx(nbj);	
	000052 <e c<br="">000053 <e c<br="">000054 <ll 000055 <ll 000055 <ll 000055 <ll 000055 <ll< td=""><td>cbl.cmx(racf); cbl.cmx(firstmvs) dra.lib.jcl cbl.jcl(s*) cbl.cmx sys1; where ORG=P0 and (RECFM='V' or RECF %user.edit.UserMacros%; where User = %use</td><td>M='VB') r% &amp; LastMod =&gt; %date%</td></ll<></ll </ll </ll </ll </e></e>	cbl.cmx(racf); cbl.cmx(firstmvs) dra.lib.jcl cbl.jcl(s*) cbl.cmx sys1; where ORG=P0 and (RECFM='V' or RECF %user.edit.UserMacros%; where User = %use	M='VB') r% & LastMod => %date%
	000053 (ein 000050 (lvx 000061   Ca 000052 (lvc 000053 (ll 000054 (e 000055 (ld	<pre>ni</pre>	le jcl's. iles. h mu userid.
	000065 <14	%user%.**   List files wit	h my userid.

Alt=3,3;4 Size=783 Recl=255 Fmt=V Files=1 Views=1

2009/01/26 11:33:27

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2009/01/26(026) 11:38 zos.cbl.com 16.6

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#### **Structured Edit Utilities Menu**

- SDE Utilities Menu provides
  - Drop down menu panel.
  - Simplify choices for processing file.
  - Items selected via relevant number or PF key.



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File Edit Font Transfer Macro Options Window Help

<mark>-CBLe</mark> File Edit Actions Options Utilities Window SwapList He<u>lp</u>wSwR

#### Edit(AUX) JGE.CBLI.MBRLIST.SOURCE.SEQ using LAC.CBLI.SDO(MBRLIST) 512 V SEQ -+; Command> Scroll> 00000 \*\*\* Top of Data \*\*\* Record type: CompUnit F(39) Offset=0 RecLen Language RecTypeX RecTypeN ALevel ADAFlag FLevel DataLen CUInd Member RecNo #7 #9 #4 #5 #3 #6 #10 #11 #12 #13 #15 #16 BN 21:2 BN 23:1 X 24:1 X 25:1 BN 30:2 X 32:2 AN 1:8 ZD 9:3 BN 12:4 BN 16:4 BN 20:1 X 21:2 <----> <----1> 000001 APEATRAC HLAsm 0002 8 0000 RecLen Language RecTypeX RecTypeN ALevel ADAFlag FLevel DataLen #6 #7 #9 #10 #11 #12 #13 #15 RecNo SRCESD Member #3 #4 #5 #16 BN 21:2 BN 23:1 X 24:1 X 25:1 BN 30:2 AN 1:8 ZD 9:3 BN 12:4 BN 16:4 BN 20:1 X 21:2 BN 32:4 <--> <> 3 00 <---+--> ---1> --1> --1> APEATRAC APEATRAC 150 150 150 150 HLAsm 0030 HLAsm 0030 HLAsm 0030 APEATRAC APEATRAC APEATRAC APEATRAC 150 150 150 150 APEATRAC HLAsm 0030 Scroll> APEATRAC ....5....+....6....+....7.... APEATRAC HLHSm Press PF4 on a record. HLAsm 0030 HLAsm 0030 HLAsm 0030 HLAsm 0030 APEATRAC 150 150 150 150 APEATRAC 2007/11/15 .demo APEATRAC libs prefixed sys1.m APEATRAC libs prefixed sys1.m APEATRAC en member 150 150 150 150 150 150 150 APEATRAC HLAsm HLAsm 0030 HLAsm 0030 APEATRAC APEATRAC APEATRAC HLAsm 0030 APEATRAC HLAsm 0030 HLAsm 0030 FREECYL d APEATRAC APEATRAC APEATRAC HLAsm 150 150 150 150 150 150 150 APEATRAC HLAsm HLAsm 0030 HLAsm 0030 HLAsm 0030 APEATRAC APEATRAC APEATRAC APEATRAC HLAsm 0030 HLAsm 0030 HLAsm 0030 APEATRAC APEATRAC APEATRAC APEATRAC HLAsm 0030 APEATRAC FM='VB') 000059 000060 000061 000062 000063 000064 il %user.edit.UserMacros%; where User = %user% & LastMod => %date% dra.lib.jcl(cblstrt) 000066 ld %user%.\*\*

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# SELCOPY/i HFS/zFS

- Supports editing/browsing.
- Copybook structures may also be applied.
- List HFS Path
  - Includes Prefix commands on List.
  - Change filename prior to save.
- Intuitive drill down access to directories and files.
- Zoom a list entry into a new single view window.
- SELCOPY/i interfaces updated to support HFS Systems where applicable.



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### SELCOPY/i HFS/zFS

- Unix System Services CLI Commands.
  - Supports USS commands to:
    - Change Directory. (USS CHDIR)
    - Make Directory. (USS MKDIR)
    - Remove Directory. (USS RMDIR)
    - Display current working directory. (USS GETCWD)
    - Create Hard Link to an existing HFS file. (USS LINK)
    - Unlink HFS Path. (USS UNLINK)
    - Display Path. (USS REALPATH)
    - Rename File. (USS RENAME)
    - Display Path Status. (USS STAT)

### **SELCOPY/i Favourites**

- SELCOPY/i has been made even easier to use.
  - FAVOURITES Easy Edit panel.
    - Store up to 999 entries for fast execution.
      - Entries can be commands or Files for Editing.
      - Execute using relevant number entry.
      - Default execution dependant on entry.
      - Override using panel option.



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### **SELCOPY/i Latest features**

- Also..
  - List Windows '/' Prefix command added to show prefix commands available for entry.
    - Tab to entry or type option to use.
  - FSU (File, Search and Update)
    - Updated to support HFS/zFS file systems in searchs



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#### Miscellaneous

• These slides provide only a limited sample of SELCOPY's Structured Data Edit.

#### Browse to <u>www.cbl.com</u> to:

- Download manuals.
- Links to Training Partners.
- CBL support is free to all licensed customers.
  - We welcome any feedback.



# **SELCOPY/i - Interactive**

Thank You

Monday, March 01, 2010

David Austin Technical Liaison Manager Compute (Bridgend) Ltd

