SQR ExpressTM Version 3.4 Developing SQRs Has Never Been So Easy!



SQR Express Is An Integrated SQR Development Environment With The Following Features:

- Color Syntax Highlighting
- Context Sensitive SQR Command Help
- Interactive Debugging is now available through SparkPath Technologies' SP Debugger for SQR
- Automatically View SQRW Output in SQRViewer, a Browser, Acrobat or a Text Viewer
- SQR/SQC Structure Viewer with Print Capabilities
- Code Tips for SQR Functions and User Defined Procedures
- SQR Command/Function Dictionary With Integrated Function Paste and Help
- PeopleSoft SQC Function Dictionaries With Integrated Procedure Paste and Include File Viewer
- Function Dictionary Editor Improve Productivity and Code Re-use by Creating Custom SQC Libraries
- Create Custom SQRW Configurations Use Multiple Versions of PeopleSoft, SQRW and DBMS
- Run SQRs With a Single Click
- Check SQR Syntax With a Single Click
- Access Database Table and PeopleSoft Record Definitions Through a Graphical Interface
- Automatic Creation of Select, Insert, Update Statements from DB Tables and PS Record Definitions
- Automatic Code Generation Using Database Table and PeopleSoft Record Definitions
- New SQRs/SQCs Can Be Created Instantly From Predefined Templates –Templates Included
- Create new SQR Procedures Using a Predefined Template Template Included
- Go To Procedure Definition Command Takes You to a Procedure Definition, Even if it is in an SQC
- Output Windows For SQRW Log Files, SQRW Syntax Checking and Find In Files
- Built in Grep like utility called Find In Files
- Page Layout Feature that lets You Print 1, 2, or 4 Logical Pages on a Single Sheet of Paper
- Fully Integrated FTP That Allows You to Browse, Open and Save Files to a FTP Host
- Built-in File Compare Making it Easier to Compare Different Version of the Same SQR
- Build Merged SQRs by Expanding All #Include files in Place
- Find All Occurrences of any Text in a SQR and All of Its #Include Files
- Show All of the SQR Variables You Have Created In Your SQR and All of Its #Include Files

And much more...

A Closer Look at Some of SQR Express's Features:

SQR Express is an editor designed specifically to work with SQRs and SQCs.

How does that make a difference? Let's take a look...

It starts with something as simple as selecting SQR code. For example, double-clicking on a variable in SQR Express selects the complete SQR variable. That's because SQR Express knows what an SQR variable can look like, but other editors don't.

Double-	clicki	ing on a variable in SQR Express:		
245	do	<pre>SetOrgCode(&rtv.setid_dept, &chld.tree_1</pre>	node,	\$OrgCode)
Double-	clicki	ing on a variable in other editors:		
245	do 3	SetOrgCode(&rtv.setid dept, &chld.tree no	de, \$	OrgCode)

But, let's see where it really can make a difference...

The SQR Express Procedure Listbox – Shows the procedure where the cursor is currently located. To see a list of all procedures defined in the SQR, click on the Procedure Listbox drop-down arrow. You can go to a particular procedure just by selecting it from the list.

orgedbld.sqr	orgchart.sqr	reset.sqc			orgcdbld.sqr		orgehart.sqr	reset.sqc	
SetOrgCode		T		Se	etOrgCode				<u> </u>
279 / 280 / Procedure: SetOrgCode 281 / Function: Set the OrgCode for the specific department 282 /									
286 begin-s	1 1			286	5 begin-s	num sql			
287 update	ps_dept_tbl			285	update	ps_dept	_tbl		
288 set o	gcode = \$NewOrgCo	ode		288) set o	prgcode =	\$NewOrgCo	de	
289 where	setid = \$SetID			289	where	setid =	\$SetID		
290 and	deptid = \$DeptId			290	and	deptid	= \$DeptId		
291 end-sql				291	end-sql	L			
292 commit				292	commit				
293				293					
294 end-pro	edure			294	end-pro	ocedure			
295				295	5				

The SQR Express Function/Procedures Listbox with Auto-Complete – As you develop an SQR, if you decide you want to use a procedure or function call, but can't remember its name, press Ctrl+Space. A list box containing all SQR functions/commands as well as all locally defined procedures will appear. As you continue to type, the list will scroll to the closest matching function/procedure or you can navigate the list by using the scroll bar. Once you find the procedure you want to use, just press enter and the entry that is currently highlighted will be inserted into your SQR.

322		322	
323	do Set	323	do SetOrgCode
324	🐋 range	324	
325		325	
326		326	
327		327	
328	V rollback	328	
329	roman	329	
330	≪Ø round	330	
331	🕬 rpad	331	
332	🕬 rtrim	332	
333	🖘 SetOrgCode	333	
334	🖘 SetTopOfTree 🔄	334	
laar		005	

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Can't Remember the Parameters for a Procedure? Code Tips to the Rescue – When you type an open parenthesis, '(', SQR Express will show a tooltip telling you the parameters required by the procedure or function.

1042

322	a. C. towards de d	0.0	330	let #rate = round(
323	do seturgiode(UK SatOraCada(#S atid #Daptid #NewOraCada)	331	round(num_value , place_num_value)
325	l	setorgcode(\$3etru , \$Depiru, \$Neworgcode)	332	

Need to Understand How an SQR Works? With SQR Express's SQR Structure viewer you can see how an SQR is built. See its structure, procedures, SQL statements and SQCs:

Structure for orgcdbld.sqr
Deptions Collapse All Show Levels
Print Refresh Expand All Levels: Show
S begin-setup
H begin-heading
E begin-footing
e milli begin-report
Init-DateTime [datetime.sqc]
Cat Current Data Time [sundthin and]
www.uer-curent-baternine (curdtaint.sqc)
Stdani-Init [stdani soc]
Get-As-Of-Date [hrgetval.sgc]
⊟ ⊶st Process-Main
- 🥳 SQL: update ps_dept_tbl
- Select From: pstreedefn
E SetTopOfTree
Select From: pstreenode, ps_report_to_vw
SetUrgLode
GetParents
En Select From: ps dept tbl
GetTreeNodeNum
Select From: pstreenode
⊡s® UpdateChildren
Select From: pstreenode, ps_report_to_vw
⊡ SetUrgCode
Sult: update ps_dept_tbl
Studph (Studp). Studp
· → ······ GetParents
i ⊕ UpdateChildren
ESetUrgCode

You can print the SQR Structure for viewing or to supplement your documentation. You can also use it as a navigation tool. Click on any line in the structure and SQR Express moves to that line in the SQR.

What SQCs does the SQR use and where can I find them? – Just use the show SQCs command and you'll see a list of all SQCs including the nested SQCs (SQCs included in other SQCs), the location where they were found and the order in which they occur in the SQR.

Include files for: C:\sqrs\orgcha	Include files for: C:\sqrs\orgchart.sqr									
🖃 🗐 orgchart.sqr		File	Location	Found In	Order					
setenv.sqc		setenv.sqc	h:\hrms75su\sqr\	orgchart.sqr	1		끸			
비 norses suc		rabms.sqc opsys.sac	h:\hrms75su\sqr\ h:\hrms75su\sqr\	setenv.sqc setenv.sqc	2		9			
setupdb.sqc		setupdb.sqc	h:\hrms75su\sqr\	orgchart.sqr	4		8			
curdttim.sqc		datetime.sac	h:\hrms/5su\sqr\ h:\hrms75su\sqr\	orgchart.sqr orgchart.sgr	5					
datetime.sqc		number.sqc	h:\hrms75su\sqr\	orgchart.sqr	7					
In datemath.sqc		datemath.sqc hrmctl1 sqc	h:\hrms75su\sqr\ h:\hrms75su\sqr\	orgehart.sqr orgehart.sqr	8 9					
hmctl1.sqc		hrgetval.sqc	h:\hrms75su\sqr\	orgchart.sqr	10					
hrgetval.sqc		stdapi.sqc stdvar.sqc	h:\hrms75su\sqr\ h:\hrms75su\sqr\	orgehart.sqr stdani.sge	11 12					
·····································		presdef.sqc	h:\hrms75su\sqr\	stdapi.sqc	13					
prcsdef.sqc		presapilisqe	h:\hrms75su\sqr\ h:\hrms75su\sqr\	stdapi.sqc presapi.sqc	14 15					
prcsapi.sqc		sqlerr.sqc	h:\hrms75su\sqr\	presapi.sqc	16					
비 prcsing.sqc		tranctrl.sgc	h:\hrms75su\sqr\ h:\hrms75su\sqr\	prosapi.sqc	17 18					
Sqiein.sqc		eni sac	h:\hrms75su\sqr\	stdani soc	19					

To examine an SQC a little closer, just double-click on the SQC in the list and SQR Express opens the SQC.

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Where Is That Procedure Defined? SQRs can contain numerous procedures, defined in many different include files (SQCs). The big question is "where is that procedure defined?" With numerous SQCs to traverse through, it's a tedious and time-consuming task to find out. Not with SQR Express. Just select the procedure name, then right-click and select **Go To Procedure Definition**... SQR Express then locates the SQC file the procedure is defined in, and opens the SQC to the location of the procedure. It can't get any simpler!

77 b	egin-report			BCS SQR Express - [H:\HRMS75SU\sqr\datetime.sqc]
78	do Init-DateTime	Open Highlighted File F4	I II	📅 File Edit Search Format Macros SQR Database Tools View
79	do Init-Number	ep <u>_</u> g.mg.mot.no	: Î	
80	do Get-Current-I	Go <u>T</u> o Procedure Definition "Init-DateTime" Ctrl+Shift+G		
81	do Init-Report			orgodbld agr detetime sac
82	do Process-Main	Find Ail Occurrences of Init-Date Time Utn+Snitt+F		orgeabla.sqi - aakenine.sqe
83	do Stdapi-Term	Find All Occurrences in SQR and #includes		Init-Datetime 🔹 🗉
84 0	nd-report	Get Record Definition for "Init-DateTime" Alt+3	- I	140 hegin-procedure Init-Detetime
85				141 #ifdef debugy
86 /		X Cut		142 dignlaw 'Entering DATETIME SOC: Init_D
	Proceaure: The 1	Copy		143 #ifdef debugy
00 /	ogin procedure Tr	Paste		144 disnlaw ' Native-DateTime: {Native-Date
90	egin-procedure ii.	Z Delete		145 #end-if
91	move 'OraCdBld'			146 #end-if
92	move 'Build the	Select All	Re	147
93	display \$ReportT			148 if \$ReportDateType = ''
94		(#9) Eind		149 move (DateType) to \$ReportDateType
95	do Stdapi-Init	ି⊈ <mark>B R</mark> eplace		150 end-if
96	do Get-As-Of-Dat	Mt. Card in Clas		151 if \$ReportDDelimiter = ''
97 <mark>e</mark> 1	nd-procedure	"na rind in riles	_ "	152 move (DDelimiter) to (DenortDDelimiter
98		→ Go To Line		
99				
100		fx Show SQR Functions		
101		Insert SQR Procedure Template		
		Comment Out Selection		
		Uncomment Selection		

Where did I use that variable? Did you ever wonder where all of the references to a specific variable were in your SQR? Or for that matter, where all occurrences of any piece of code are in your SQR? With SQR Express, it's easy to find out. Select the text, and then right-click and select **Find All Occurrences of**... Presto, SQR Express provides you with a printable list of all occurrences of the specified text.

27 #define col_sep	1 !Column Separator
28 #define col plan	Open Highlighted File F4
30 #define col ben	
31 #define col ben	. Go To Procedure Definition Ctrl+Shift+G
32 #define col_eff_	trind All Occurrences of "col_plan_type" Ctrl+Shift+F
33 #define col_accr	I Ga Find All Occurrences in SQR and #includes
34 #define col_accr	
35 #define col_serv	<u>G</u> et Record Definition for "col_plan_type" Alt+3
36 #define col_spec	5 X Ot
38 #define col max	
39 #define col max	Ci (P) Paota
40	Z Delete
41 begin-report	En Delere
42 do Init-Report	Select All
43	AA Dud
44 ! 'LEAVE PLAN	gen End
45 do Get-Report-	A (<u>) Heplace</u>
47 display ' '	Find in Files
48 display \$Report	
49 display ' '	→ <u>G</u> o To Line
50	<i>f</i> ∗ Sho <u>w</u> SQR Functions
51 do Process-Mai	Insert SQR Procedure Template
	Comment <u>O</u> ut Selection
	Uncomment Selection
Find all occurrences	of "col_plan_type" in the current SQR
H:\HRMS75SU\sqr\BEN70	1.SQR(28): #define col_plan_type 5 !Plana Type
H:\HRMS75SU\sqr\BEN70	1.SQR(105): print \$BEN1-PLAN (+1,1,{col_plan_type})
H:\HEMS/55U\sqr\BEN/0	I.SQR(IIS): print \$BENI-IYFE (+1,1,{coi_plan_type}) 1 SOR(131): print '=' (+1,1 (col_plan_type)) FILL
4 occurrences of "col	plan type" found
SQR Logfile	SQR Syntax Check A Find In Files Find Occurrences
Ready	No Database File Last Llodt: 05/08/98 - 18:13:28 Llo 38. Col 60

To go to one of the "Occurrences", simply double-click on Line # and SQR Express will take you there!

Getting Started is the Hardest Part...

Starting an SQR from an empty page can be difficult, time consuming and intimidating for new users of SQR. Even PeopleSoft recommends you start by using an existing SQR as a template. SQR Express has taken this concept a step further. When you use the File New command, you are automatically presented with an option of how to create your new SQR. SQR Express comes with a predefined template for both SQRs and SQCs. Both templates are designed to run



correctly without any additional work, this way you start out on the right foot. The templates incorporate common PeopleSoft SQR layout and procedures such as report initialization and process scheduler API calls.

If you don't like the SQR Express templates, or you want something a little different, no problem. You change what template SQR Express uses for the File New command. It's that simple.

Creating Procedures

SQR Express also includes a template for creating procedures. With just a couple of clicks, you are off to quick start. By using a template, you cut down on some of the tedious work involved in creating procedures, plus you improve your SQR's consistency and documentation. To insert a procedure template, select **Insert SQR Procedure Template** from the **Edit** menu, or right click in the editor and select **Insert SQR Procedure Template**.

127!				-!
128 ! N	lame :	Procedure-Na	ame	1.
129 ! I	escription:	Describe th	e purpose for the procedure	1
130 ! F	arameters:			1.
131 !	Input:	#EMPLID	- Employee Id	1 - E
132 !	Output:	\$JOBCODE	- Jobcode	1.1
133 !				- !
134 beg	jin-procedure	Procedure-N	ame	
135				
136 end	l-procedure			

If you do not like the procedure template SQR Express uses, you can change it.

Forget the SQRW Command-Line Parameters

One of the problems in using SQRW has been deciding which SQRW Command-line parameters to use as well as configuring SQRW to work with multiple databases, different include paths, etc. SQR Express works hard to alleviate these problems in a couple of ways. 1) SQR Express puts the most common SQRW Command-line parameters in an easy to use SQR Configuration Wizard; and 2) SQR Express lets you create as many SQRW configurations as you want and switching between them is as easy as selecting an SQRW configuration from the toolbar. Here is how it works:

At install time, SQR Express creates a **default** SQRW Configuration based on SQRW information you provide. You can edit this configuration by simply using the menu choice SQR - SQRW Configuration Wizard... or click on the equivalent toolbar button. Then the SQRW Configuration Wizard will guide you through the setup of SQRW.

SQRW Configuration Wizard	×	SQRW Configuration Wizard
SQR	Welcome to the SQRW Configuration Wizard	What do you want the SQRW Configuration Wizard to do? The SQRW Configuration Wizard can create a new SQRW Configuration as well as copy, edit or delete an existing SQRW Configuration.
Express	This wizard will guide you through the creation of a basic SQRW configuration. This configuration is necessary to syntax check and run SQRs. It is also required to utilize other features of SQR Express. You can also use the SQRW Configuration Wizard to copy, update and delete existing SQRW Configurations. To continue, click Next.	 Create a new SQRW Configuration Create a new SQRW Configuration by copying an existing SQRW Configuration Existing SQRW Configurations SQLBase - HRDMO 75 Edit an existing SQRW Configuration Existing SQRW Configuration Existing SQRW Configuration Drecie Delete an existing SQRW Configuration Existing SQRW Configuration Existing SQRW Configuration Existing SQRW Configuration
	< Back. Next > Cancel	→ Cancel

Now that you have created several different SQRW Configurations, you can switch between configurations by selecting the configuration you want from the toolbar drop-down list box.

BCS SQR Express -	- [H:\HRMS75SU\sq	r\generic.sqr]		
Eile Edit Search	Format <u>M</u> acros S <u>Q</u> R	Database Tools View Window Help		<u>_ 8 ×</u>
0 🖻 🗉 🎒 🖪	. 🐰 🖻 🛍 🗠	∾ 🗚 🗛 🎀 💽 🚈 🔍 🐻	SQLBase - HRDMO 75	🏧 🛅 📾 🖆 🗱 🐎 🖤 🗜
orgchart.sqr	generic.sqr		default DB2 MSSOI SecurityT/Late	ľ
(General)			Oracle SBS-HBDMO	
1 ! 2 ! Program No	ame: generic.	 sqr	SQLBase - HRDMO 75	A

Once you have selected a configuration, every SQR you run will use that configuration.

For the more advanced features of SQRW, you can use the SQR Express SQRW Configuration dialog, which makes it easy to set or change almost any SQRW command-line flag.

How Do You Actually Run an SQR?

That is the easy part. All you need to do is select the menu item $\underline{SQR} - \underline{Run} Current SQR using SQRW$ or click on the equivalent toolbar button. SQR Express will run the current SQR using the currently selected SQRW Properties Configuration. That is it!

SQR Express also lets you check the syntax of an SQR without actually running it. Just select the menu item SQR - Check/Validate SQR Syntax. SQR Express will have SQRW check the syntax of your SQR and report the results. If there is an error, you can click on the error line number and SQR Express will take you to that line.

Checking synta	for generic	c.sqr			-
Error on line 74:					
(SQR 3501) Didn't show 'Init Repo	t find end of t	literal.			
Errors were found in	n the program	a file.			
SQRW: Program Abort: Syntax check fo	ing. or generic.sc	pr is complete. Error(s) found			T
SQR Logfile	SQR Syntax Cl	heck Find In Files Find Occurrences			
Ready	hrdmo	File Last Updt: 02/04/02 - 15:50:17 Ln 1, Col 1	INS	NUM	

When you turn on the Auto Open SQR Log File feature, SQR Express will open the current SQRs log file when the SQR finishes running.

	Running SQR generic.sqr, started 09/30/2000 @ 05:45:29PM SQR generic.sqr completed successfully on 09/30/2000 @ 05:45:34PM Generic Report Please press ENTER (Do not input a value): procedure Process-Main	
	SQRW: End of Run.	•
]]	SQR Logfile: C:TEMPIGENERIC.log SQR Syntax Check Find In Files Find Occurrences	
Re	eady File Last Updt: 09/30/00 - 17:45:11 Ln 100, Col 20	

You can also tell SQR Express to automatically open SQRViewer when the SQR finishes running so you can see the result of your work. Or you can have SQR Express automatically open the SQR output file in the appropriate viewer. Printer files are opened in a text viewer, PDF files in Acrobat and HTML files in your default browser. The choice is up to you.

What Else Can SQR Express Do?

PeopleSoft Record Definitions

To make using SQR Express easy, access to PeopleSoft record definitions is critical. That is why SQR Express includes direct access to PeopleSoft record definitions utilizing the PeopleSoft Open Query API. It is as simple as logging on to PeopleSoft and selecting the records you want to view. However, you can do more than just viewing records. From a PeopleSoft record definition you can create Select, Insert and Update statements with just a few clicks of a button. And with the Fields feature and SQR Express substitution variables, you can automagically generate code to initialize variables for each field, print/show fields or variables, call functions and much more.

Menu: Database - View PeopleSoft Record Definitions...



The PS Record Defns window can hold multiple record definitions from multiple PeopleSoft Databases (different PS Versions, Databases or even different RDBMS). The PS Record Defns window can float freely on your desktop or it can be docked in the SQR Express application (as shown on page 1)

The Simple Way to Create a Select Statement



This is just one simple example of creating a select statement and you can do much more...



Creating a insert statement has never been so easy. But more importantly, you get it right the first time. The "field name comment" for each field means you never have to guess again which line is for which field.

Using the Fields Button

The Fields Button is a powerful tool that allows you to generate SQR code for each field that is selected. Using text and SQR Express substitution variables, you can quickly and easily generate SQR code to initialize variables, show field values, call functions, and perform other operations. The example below shows how to generate Get_Field_Information code (Get_Field_Information is a PeopleSoft delivered procedure).



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Function Dictionary for SQR Commands & Functions and SQC Procedures

What makes SQR so powerful? Its built in commands and functions as well as the ability to create reusable libraries of procedures that perform specific tasks. PeopleSoft has spent thousands of hours creating SQCs and procedures to perform common PeopleSoft SQR tasks. The problem is most developers do not know about them and as a result do not use them. That all changes with SQR Express.

SQR Express includes a Command/Function/Procedure (CFP) dictionary for SQR commands and functions as well as procedures created by PeopleSoft. The CFP dictionary logically groups commands, functions and procedures based on their functionality. For example, all CFPs related to file operations would be grouped into a category called **File Functions**. Using a command, function or procedure is as simple as selecting it from a list and pasting it into your SQR. And when you paste a procedure from a SQC, the **#include** '**<filename.sqc>'** statement for the SQC is added to the SQR.

Menu: Edit – Insert SQR Function... or

Function List: Paste Function	Commands, Functions and Procedures		
Function Category:	Function Name:		(CFP) List. Clicking on a Function
	dtu-month-end	PT7.5 SQC Library	Category" shows all CEPs related to the
Arraus (SQB)	du-narse-date	PT75 SOC Library	Category shows an errs related to the
Ask Liser (HB /BEN /PAY 7.5 SOC)	dtu-ser-to-und	PT75S0CLibrary	function category you selected. Choosing
Compile Directives (SOB)	du-subtract-days	PT75S0CLibrary	"A 11"
Control Statements (SOR)	duumd to ser	PT75 SOC Library	All will snow you all CFPs in the
Date /Time (UD /DEN /DAY 7 5 COC)	o10	COP Library	Function Dictionaries you have available
Date/Time (RT7 E COC)	ero adà	COR Library	r unedon Diedonaries you nave avanable.
Date/Time (COD)	ENCODE	COD Library	
Date/Time (SQR)	ENCODE	SUB LIDIARY	
	EVALUATE		
Error Handling (P17.5 SQL)	EXECUTE	SQR Library	
File Functions (SUR)	exists	SUR Library	People Loois SQC Procedures
Get Run Utri Data (HR/BEN/PAY 7.5 SUC)	EXIT-SELECT	SUR Library	
Graphics (SQR)	exp	SQR Library	
HTML (SQR/SQC)	EXTRACT	SQR Library	SOB Commonds and Expetions
Input (SQR)	FIND	SQR Library 🚽	SQR Commands and Functions
Lookup Data (HR/BEN/PAY 7.5 SQC)	floor	SQR Library	
Lookup Data (PT7.5 SQC)	Format-Amt	PT7.5 SQC Library	
Lookup Table (SQR)	Format-DateTime	PT7.5 SQC Library	
Misc (PT7.5 SQC)	Format-Number	PT7.5 SQC Library	Functional SOC Procedures
Misc (SQR)	GET	SQR Library	
Name Format (HR/BEN/PAY 7.5 SQC)	Get-Action-Reason	SOC Lib HR/Ben/Pay 7.5 🗐	
	la la ava l'instant.		
			Click Definition to see and paste a CFP
		<u>Definition</u>	Chek Deminion to see and paste a CIT
			L into an SOR See examples below

SQC Procedure Definition Dialog						
SQR version All; Function Definition For: Read-Translate-Table						
Syntax DÖ Read-Translate-Table		Paste Cancel				
Input Variables:	Output Variables:	Include File				
\$FieldName \$FieldValue \$As0fDate !optional	StatShortName \$≺latLongName	4				
Paste Properties	Description Read the Translate Table for the desired values. let \$FieldName = 'ACTION'					
 Function Syntax Input Variables 	let \$FieldValue = 'FSC' DO Read-Translate-Table show \$XlatShortName					
☑ Output/ <u>R</u> eturn Variables	snow \$~\atLongName					
🔽 #Include "readxlat.sqc"		<u>_</u>				

SQR Command/Function Definition Dialog

SQR version All; Function Definition For: STRING						
Syntax STRING (src_txt_vart_colLit) BY (delim_txt_vart_colLit) INTO (dst_txt_var)						
Input Variables:	Output Variables:					
	×	×.				
Paste Properties	Description					
Function <u>Name</u>	Concatenates a list of variables, columns, or literals into a single text variable, each separated by the specified delimiter string. The destination string must not be included in the list of source strings. Examples:					
Function Syntax						
🗹 Input Variables	string &name &city &state &zip by '-' into \$show-info ! Result: Sam Mann - New York - NY - 11287					
☑ Output/ <u>R</u> eturn Variables	string &cust_num &entry-date &total by '/ into \$cust-data ! Result: 100014,12-MAR-89,127					
M #Include "Filename.sqc"	! Use null delimiter. string &code1 &code2 &code3 by " into \$codes123	•				

The SQC Procedure Definition dialog allows you see how a specific procedure works, its syntax, globally defined input/output variables, a description and examples of its use.

You can also open the Procedure's include file to see the actual definition.

Lastly, you can paste the procedure directly into the SQR using the Paste button. Paste properties determine what is actually pasted into the SQR.

The SQR Command/Function Definition dialog allows you to see how a specific command or functions works, its syntax, input/output variables and a description and examples of its use.

By clicking on the Help button, you can view the SQR help for that command or function.

Lastly, you can paste the command/function directly into the SQR using the Paste button. Paste properties determine what is actually pasted into the SOR.

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Improving SQR Code Reuse

Code reuse is probably the single biggest way to reduce SQR coding time and costs. Making reusable SQR code easily accessible is critical to getting developers to reuse the code. The function dictionary feature of SQR Express greatly improves code reuse by allowing developers to effortlessly use and reuse PeopleSoft delivered SQC functionality. But, that is not enough. Each developer, group or organization may have its own SQC code libraries. As a result, SQR Express has included a Function Dictionary Editor. With the Function Dictionary Editor you can create your own custom function dictionaries that contain your custom procedures or code snippets. These dictionaries can then be easily shared with other developers.

SOR Express Function Dictionary Editor - [ABCCorp.bdf] □ X □ File Edit Functions Yiew Window Help □ B X							
D 😂 🕺 🖻 🖀 🚭 🛱 🛱 🛱 😫 😵							
sqr_html.bdf hrbenpay7.		odf ABCCorp.bdf					
Function	Name	Category		Include File	Version		
ErrorMessage	Err	or Handling (ABC Corp))	abcerror.sqc			
ErrorSQLStmt	Err	or Handling (ABC Corp))	abcerror.sqc			
GetABCFromThruDate		t Run Ctrl Data (ABC C	orp) a	abcgetvl.sqc			
GetCompanyData		Lookup Data (ABC Corp)		abogod.sqc			
GetDeductionName		Lookup Data (ABC Corp)		abcgetde.sqc			
GetDepartmentName		Lookup Data (ABC Corp)		abcgetdp.sqc			
GetEmployeeName		Lookup Data (ABC Corp)		abcgetem.sqc			
GetHours		Lookup Data (ABC Corp)		abcgethr.sqc			
GetJobTitle		Lookup Data (ABC Corp)		abcgetjb.sqc			
GetLocationName		Lookup Data (ABC Corp)		abcgetlo.sqc			
GetOrgcodeSymbol		Lookup Data (ABC Corp)		abcorgsb.sqc	-		
GetPositionTitle		Lookup Data (ABC Corp)		abcposnm.sqc			
PayGroup Evaluate Code Sni		de Snippet (ABC Corp)					
Ready NUM //							

Creating function definitions or code snippets is as easy as providing the information shown in the following dialog:

Edit Function Market State Sta						
Name:	GetCompanyData	Save				
Category:	Lookup Data (ABC Corp)					
Include File:	abcgcd.sqc	<u>C</u> ancel				
Versions #:						
Function Syntax:						
DO GetCompanyE)ata.	×				
Input Variables:	Output Variables:					
\$Company \$As0fDate !0pti						
Function Description	on:					
Get the company	Name, Descr and Address info	×				

To use your custom function dictionaries, just add the dictionaries to the dictionary list in SQR Express's configuration. It is that easy!

Now you can interactively debug your SQRs directly from SQR Express with SP Debugger for SQR .



SP Debugger for SQR is a 3rd Party interactive Debugger for SQRs that includes:

	Just some of the Features		<u>Plus</u>
ø	Step through your SQR program, one statement at a time	×	A clean, GUI-based, easy-to-use interface; no commands to enter
	Set and clear breakpoints; run to the next breakpoint	×	View and modify variables, including SQR reserved variables
L;	Step over an entire procedure, or step through it	×	Explore arrays; view and modify individual array cells
.,	Watch the debugger "auto-step" through your program	×	Run until a variable value changes or satisfies a specified condition
	Pause program execution at any time	×	Program structure tree, variable list, and other views
ß	Rerun the program from the beginning	×	An integrated profiler identifies long-running program statements
*	Force a database COMMIT at any time	×	Comprehensive, indexed and searchable help information

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