SYBASE[®]

Connection Reference

PocketBuilder™

2.5

DOCUMENT ID: DC00165-01-0250-01

LAST REVISED: December 2007

Copyright © 2003-2007 by Sybase, Inc. All rights reserved.

This publication pertains to Sybase software and to any subsequent release until otherwise indicated in new editions or technical notes. Information in this document is subject to change without notice. The software described herein is furnished under a license agreement, and it may be used or copied only in accordance with the terms of that agreement.

To order additional documents, U.S. and Canadian customers should call Customer Fulfillment at (800) 685-8225, fax (617) 229-9845.

Customers in other countries with a U.S. license agreement may contact Customer Fulfillment via the above fax number. All other international customers should contact their Sybase subsidiary or local distributor. Upgrades are provided only at regularly scheduled software release dates. No part of this publication may be reproduced, transmitted, or translated in any form or by any means, electronic, mechanical, manual, optical, or otherwise, without the prior written permission of Sybase, Inc.

Sybase trademarks can be viewed at the Sybase trademarks page at http://www.sybase.com/detail?id=1011207. Sybase and the marks listed are trademarks of Sybase, Inc. (1) indicates registration in the United States of America.

Java and all Java-based marks are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

Unicode and the Unicode Logo are registered trademarks of Unicode, Inc.

All other company and product names used herein may be trademarks or registered trademarks of their respective companies.

Use, duplication, or disclosure by the government is subject to the restrictions set forth in subparagraph (c)(1)(ii) of DFARS 52.227-7013 for the DOD and as set forth in FAR 52.227-19(a)-(d) for civilian agencies.

Sybase, Inc., One Sybase Drive, Dublin, CA 94568.

Contents

About This Book.		v
CHAPTER 1	DBParm Parameters	1
	DBParm parameters and supported database interfaces	2
	Alphabetical listing of database parameters	3
	Async	3
	Block	5
	CallEscape	7
	CommitOnDisconnect	8
	ConnectOption	9
	ConnectString	13
	CursorLib	15
	CursorLock	16
	CursorScroll	17
	Date	18
	DateTime	20
	DBGetTime	21
	DBTextLimit	22
	DecimalSeparator	23
	DelimitIdentifier	24
	DisableBind	25
	FormatArgsAsExp	28
	IdentifierQuoteChar	29
	LoginTimeOut	30
	MsgTerse	31
	NumericFormat	32
	OJSyntax	34
	PacketSize	35
	PBCatalogOwner	36
	PBUseProcOwner	37
	RPCRebind	39
	SQLCache	40
	StaticBind	42
	StripParmNames	43

	TableCriteria Time TrimSpaces	
CHAPTER 2	Database Preferences	49 49
	Connect to Default Profile	
	Keep Connection Open	52
	Lock	53
	Read Only	55
	Shared Database Profiles	
	SQL Terminator Character	56
	Use Extended Attributes	57
Index		59

About This Book

Audience	This guide is for programmers building applications with PocketBuilder TM .	
How to use this book	This book describes the database parameters and preferences you use to connect to a database in PocketBuilder.	
Related documents	PocketBuilder reference set This guide is part of the PocketBuilder reference set, which is based on PowerBuilder® documentation. The reference set also includes the following manuals:	
	• <i>DataWindow Reference</i> - Lists the DataWindow® functions and properties and includes the syntax for accessing properties and data in DataWindow objects.	
	• <i>Objects and Controls</i> - Describes the system-defined objects and their default properties, functions, and events.	
	• <i>PowerScript Reference</i> - Describes syntax and usage for the PowerScript® language including variables, expressions, statements, events, and functions.	
	PocketBuilder documentation set The PocketBuilder documentation set includes the following manuals:	
	• <i>Introduction to PocketBuilder</i> - Provides an overview of PocketBuilder features and the PocketBuilder development environment and a tutorial that leads the new user through the basic process of creating and deploying PocketBuilder applications.	
	• <i>Resource Guide</i> - Presents advanced programming techniques and information about connecting to and synchronizing with a database.	
	• Users Guide - Gives an overview of the PocketBuilder development environment and explains how to use the interface. Describes basic techniques for building the objects in a PocketBuilder application, including windows, menus, DataWindow objects, and user-defined objects. An appendix summarizes the differences between PocketBuilder and PowerBuilder.	

Online Help Reference information for PowerScript properties, events, and functions is available in the online Help with annotations indicating which objects and methods are applicable to PocketBuilder. **SQL** Anywhere® documentation PocketBuilder is tightly integrated with the SQL Anywhere database server and management system (formerly Adaptive Server Anywhere), including its UltraLite®, MobiLinkTM, and Sybase CentralTM components. You can install these products from the PocketBuilder setup program. For an introduction to these products, see Chapter 1 in Introduction to PocketBuilder. Documentation for SQL Anywhere is available on the PocketBuilder SyBooks CD and on the iAnywhere Web site at http://www.ianywhere.com/developer/product_manuals/sqlanywhere/. Other sources of Use the Sybase Getting Started CD, the SyBooks CD, and the Sybase Product information Manuals Web site to learn more about your product: The Getting Started CD contains release bulletins and installation guides . in PDF format, and may also contain other documents or updated information not included on the SyBooks CD. It is included with your software. To read or print documents on the Getting Started CD, you need Adobe Acrobat Reader, which you can download at no charge from the Adobe Web site using a link provided on the CD. The SyBooks CD contains product manuals and is included with your ٠ software. The Eclipse-based SyBooks browser allows you to access the manuals in an easy-to-use, HTML-based format. Some documentation may be provided in PDF format, which you can access through the PDF directory on the SyBooks CD. To read or print the PDF files, you need Adobe Acrobat Reader. Refer to the SyBooks Installation Guide on the Getting Started CD, or the README.txt file on the SyBooks CD for instructions on installing and starting SyBooks. The Sybase Product Manuals Web site is an online version of the SyBooks CD that you can access using a standard Web browser. In addition to product manuals, you will find links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network. To access the Sybase Product Manuals Web site, go to Product Manuals at http://www.sybase.com/support/manuals/.

Sybase EBFs and software maintenance

٠ Finding the latest information on EBFs and software maintenance

- 1 Point your Web browser to the Sybase Support Page at http://www.sybase.com/support.
- 2 Select EBFs/Maintenance. If prompted, enter your MySybase user name and password.
- 3 Select a product.
- 4 Specify a time frame and click Go. A list of EBF/Maintenance releases is displayed.

Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as a Technical Support Contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click Edit Roles to add the "Technical Support Contact" role to your MySybase profile.

5 Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.

Conventions The formatting conventions used in this manual are:

Retrieve and Update When used in descriptive text, this font indicates: · Command, function, and method names · Keywords such as true, false, and null Datatypes such as integer and char Database column names such as emp_id and f_name . • User-defined objects such as dw_emp or w_main variable or file name When used in descriptive text and syntax descriptions, oblique font indicates: Variables, such as myCounter • Parts of input text that must be substituted, such as pklname.pkd

· File and path names

Formatting example To indicate

	Formatting example	To indicate
	File>Save	Menu names and menu items are displayed in plain text. The greater than symbol (>) shows you how to navigate menu selections. For example, File>Save indicates "select Save from the File menu."
	dw_1.Update()	Monospace font indicates:
		• Information that you enter in a dialog box or on a command line
		Sample script fragments
		Sample output fragments
lf you need help	Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you cannot resolve a problem using the manuals or online help, please have the designated person contact Sybase Technical Support or the Sybase subsidiary in your area.	

CHAPTER 1 **DBParm Parameters**

About this chapter	This chapter describes the syntax and use of each DBParm parameter that you can set in PocketBuilder. Syntax and usage depend on the database interface you are using. Some ODBC DBParms are not valid for use with SQL Anywhere.		
	Setting DBParms in PowerScript Use the Preview page of the Database Connection Profile ensure that you are using the correct syntax in PowerScrip boolean DBParms can be turned on using any of the values and turned off using false, No, or 0. Numeric values for DBF be enclosed in quotes.	dialog box to t code. Most true, Yes, or 1, ² arms must <i>not</i>	
Contents	Торіс	Page	
	DBParm parameters and supported database interfaces	2	
	Alphabetical listing of database parameters	3	

DBParm parameters and supported database interfaces

The following table lists each supported database interface and the DBParm parameters you can use with that interface in PocketBuilder.

The DBParm parameters are described in alphabetical order following the table.

Database interface	DBParm parameters		
ODBC Using DBParms with ODBC These DBParm parameters are supported by the PocketBuilder ODBC interface only if <i>both</i> the ODBC driver you are using and the back-end DBMS support the feature.	Async Block CallEscape CommitOnDisconnect ConnectOption ConnectString CursorLib CursorLock CursorScroll Date DateTime DBGetTime DecimalSeparator DelimitIdentifier DisableBind	FormatArgsAsExp IdentifierQuoteChar LoginTimeOut MsgTerse NumericFormat OJSyntax PacketSize PBCatalogOwner PBUseProcOwner RPCRebind SQLCache StaticBind StripParmNames TableCriteria Time	
UltraLite	CommitOnDisconnect ConnectString DBTextLimit DelimitIdentifier	FormatArgsAsExp StaticBind TrimSpaces	

Alphabetical listing of database parameters

Async			
Description	Allows you to p PocketBuilder. I DataWindow ob you can cancel it same database c while the retriev	Allows you to perform asynchronous operations on your database in PocketBuilder. In other words, if you have coded a RetrieveRow event for a DataWindow object, before the current database retrieval operation completes, you can cancel it or start another (non-database) operation that does not use the same database connection. You can also switch to another Windows process while the retrieval takes place.	
	By default, Pock	tetBuilder operates synchronously.	
Applies to	ODBC	ODBC	
Syntax	Async = value		
	Parameter	Description	
	value	 A value specifying synchronous or asynchronous operation. Values are: 0 (Default) Synchronous operation. 1 Asynchronous operation. 	
Default value	Async = 0	Async = 0	
Usage	Enabling asynch executing a com If the Async par SQL statement i	ronous operation in PocketBuilder is useful when you are plex SQL statement that takes several minutes to return results. ameter is set to 1, you can do either of the following while the s executing:	
	• Work in another window		
	• Cancel the statement before it retrieves the first row of data		
	When to set Asymptotic PocketBuilder set the Transaction	<i>nc</i> If you are communicating with the database in a cript, you can reset the Async value at any time before or after object has connected to the database.	

	<i>How data is retrieved</i> When you retrieve data in a DataWindow object, the following steps occur in order:
	1 The database server compiles and executes the SQL statement.
	2 PocketBuilder retrieves (fetches) the first row of data.
	3 PocketBuilder retrieves each subsequent row of data.
	What happens before the first row is retrieved While the server is compiling and executing the SQL statement and before PocketBuilder retrieves the first row of data, you need to have done <i>both</i> of the following to enable asynchronous operation (allowing you to cancel the current operation before it retrieves the first row of data):
	• Coded a RetrieveRow event for the DataWindow object (the code can contain only a comment)
	• Set the Async DBParm parameter to 1
	What happens after the first row is retrieved After the first row of data is retrieved and between subsequent row fetches, you need to have done only the following to enable asynchronous operation:
	Coded a RetrieveRow event for the DataWindow object
	After the first row is retrieved, PocketBuilder operates asynchronously <i>without your having to set the Async DBParm to 1</i> , so you can cancel the current operation anytime after it retrieves the first row of data. Therefore, the Async DBParm parameter has no effect in PocketBuilder after the first row of data is retrieved.
Examples	To enable asynchronous operation:
	• Database profile Select the Asynchronous check box on the Transaction tab in the Database Profile Setup dialog box.
	• PocketBuilder application script Type the following in a PocketBuilder script:
	SQLCA.dbParm = "Async = 1"
	You can set the Async and DBGetTime parameters in a single DBParm statement. DBGetTime specifies the number of seconds you want PocketBuilder to wait for a response from the DBMS when you retrieve rows in a DataWindow object.

	To enable asynchiseconds:	ronous operation and set the DBGetTime parameter to 20
	• Database pro Number Of S Profile Setup	ofile Select the Asynchronous check box and type 20 in the beconds To Wait box on the Transaction tab in the Database dialog box.
	PocketBuild PocketBuilde	er application script Type the following in a er application script:
	SQLCA.	dbParm = "Async = 1, DBGetTime = 20"
See also	DBGetTime	
Block		
Description	Block specifies the blocking factor de fetch from the dat	the cursor blocking factor for a database connection. The etermines the number of rows that a DataWindow object can tabase at one time.
	You can improve you access a data	performance by using the Block DBParm parameter when base in PocketBuilder.
Applies to	ODBC	
Syntax	Block = <i>blocking_factor</i>	
	Parameter	Description
	blocking_factor	The number of rows you want the DataWindow object to fetch from the database at one time. The blocking factor can be a number from 1 to 1000, inclusive.
		To turn off block fetching, set Block to 1.
Default value	For most DataWin	ndow objects, the Block default value is Block=1000.
	If you specified th as needed from th value is Block =	at the DataWindow object should retrieve only as many rows the database (Retrieve.AsNeeded property), the Block default 100.
	In both cases, the retrieved of 32K j	re is a maximum limit on the volume of data that can be per column.
	Using the defaul You should not ha default blocking f	t blocking factor ave to set a non-default value for Block. In most cases, the factor used by PocketBuilder should meet your needs.

Usage	<i>Requirements</i> To use the Block DBParm parameter with an ODBC data source, your ODBC driver must:			
	• Be ODBC Version 2.0-compliant or higher, and			
	• Support the SQLExtendedFetch API call			
	The SQL Anywhere ODBC driver that comes with PocketBuilder meets both of these requirements.			
	For information about whether your ODBC driver meets these requirements, see the documentation that comes with your driver.			
	<i>Determining the Block value</i> PocketBuilder searches the following in this order to determine the Block value for ODBC data sources:			
	1 The section for your database profile in the PocketBuilder initialization file or the value of the Transaction object DBParm property in a PocketBuilder application.			
	2 The section for your ODBC driver in the <i>pkodb25</i> initialization file.			
	If PocketBuilder does not find a Block value in these locations, it uses the default Block value for the DBMS you are accessing.			
	<i>Turning off block fetching</i> To turn off block fetching for an ODBC data source, set the Block parameter to 1.			
Examples	To set the blocking factor for DataWindow objects to 50 rows:			
	• Database profile Type 50 in the Retrieve Blocking Factor box on the Transaction tab in the Database Profile Setup dialog box.			
	• PocketBuilder application script Type the following in a PocketBuilder application script:			

SQLCA.dbParm = "Block = 50"

Description	Controls whether the ODBC interface uses call escape syntax for stored procedure calls (the default) or converts the calls to driver-specific native SQL syntax before sending the command to the ODBC driver.		
Applies to	ODBC		
Syntax	CallEscape = ' <i>value</i> '		
	Parameter	Description	
	value	Controls whether the ODBC interface uses call escape syntax for stored procedure calls or converts the calls to driver-specific native SQL syntax. Values are:	
		• Yes (Default) The ODBC interface uses call escape syntax for stored procedure calls.	
		• No The ODBC interface converts stored procedure calls to driver-specific native SQL syntax before sending the command to the ODBC driver.	
Default value	CallEscape = 'Ye	es'	
Usage	<i>When to use</i> Set CallEscape to No if the ODBC driver you are using expects to receive stored procedure calls in native (driver-specific) SQL syntax instead of in call escape syntax.		
	For information about the stored procedure call syntax your ODBC driver expects, see your vendor's driver documentation.		
	<i>Level 2 or higher ODBC driver required</i> To use the CallEscape DBParm parameter, your ODBC driver <i>must</i> meet Level 2 or higher API conformance requirements. CallEscape has no effect when you are using an ODBC driver that meets Core or Level 1 API conformance requirements.		
Examples	To convert stored command to you	l procedure calls to native SQL syntax before sending the r ODBC driver:	
	• Database profile Clear the Use Call Escape Syntax check box on the Syntax tab in the Database Profile Setup dialog box.		
	• PocketBuilder application script Type the following in a PocketBuilder script:		
	SQLCA.	DBParm = "CallEscape = 'No'"	
	The following example shows a call to a stored procedure named sp_test that uses call escape syntax:		
	{call sp_	test(1,1)}	

CallEscape

CommitOnDisconnect

Description	Specifies whether PocketBuilder should commit (the default) or roll back all previously uncommitted database updates before disconnecting from a data source.	
	When to speci You must speci database in Poc	fy CommitOnDisconnect fy a value for CommitOnDisconnect <i>before</i> connecting to the ketBuilder.
Applies to	ODBC UL9 UltraLite 9 UL10 UltraLite	9 10
Syntax	CommitOnDisc	onnect = 'value'
	Parameter	Description
	value	Specifies whether PocketBuilder should commit or roll back all previously uncommitted database updates before disconnecting from a data source. Values are:
		• Yes (Default) PocketBuilder commits all uncommitted database updates when an application closes or when an explicit DISCONNECT statement is issued in a PocketBuilder script.
		• No PocketBuilder rolls back all uncommitted database updates when an application closes or when an explicit DISCONNECT statement is issued in a PocketBuilder script. With this setting, PocketBuilder does not automatically commit updates when you disconnect from the database.
Default value	CommitOnDisconnect = 'Yes'	
Usage	Set CommitOnDisconnect to No if you want PocketBuilder to roll back uncommitted database updates (instead of automatically committing them when you disconnect from the database).	
Examples	To tell PocketB committing the	uilder to roll back uncommitted database updates instead of m when disconnecting from the database:
	Database Connection	orofile Clear the Commit On Disconnect check box on the tab in the Database Profile Setup dialog box.
	PocketBui PocketBuil	Ider application script Type the following in a der script:
	SQLCA	.DBParm = "CommitOnDisconnect = 'No'"

ConnectOption

Description

Sets driver-specific connection options when you are accessing an ODBC data source in PocketBuilder. These options specify the following:

- How the ODBC driver prompts for additional connection information
- The type of security for a Microsoft SQL Server connection
- Whether the ODBC Driver Manager Trace is on or off and what trace file it uses
- Whether cursors are closed or left open on a SQLTransact call
- How temporary stored procedures are treated for a SQLPrepare call

Certain ConnectOption parameters apply to all ODBC drivers, whereas others apply only to particular ODBC drivers.

For information on each ConnectOption parameter and whether you can use it with your ODBC driver, see the table in the Syntax section.

When to specify ConnectOption

You must specify the ConnectOption parameter *before* connecting to an ODBC data source in PocketBuilder. The ConnectOption settings take effect when you connect to the database.

Applies to ODBC Syntax Conner

ConnectOption = 'SQL_DRIVER_CONNECT, value; SQL_INTEGRATED_SECURITY, value; SQL_OPT_TRACE, value; SQL_OPT_TRACEFILE, value; SQL_PRESERVE_CURSORS, value; SQL_USE_PROCEDURE_FOR_PREPARE, value'

The following table lists the applicable ODBC drivers, purpose, and values for each ConnectOption parameter.

Parameter	Description
SQL_DRIVER_CONNECT	Driver Any ODBC driver that supports the SQLDriverConnect API call.
	Purpose Specifies how the ODBC driver prompts for additional connection information (such as the user ID and password) when connecting to an ODBC data source.
	values The values you can speeny are.
	• SQL_DRIVER_COMPLETE (Default) If the connection string contains correct and sufficient information to connect, the driver connects to the specified data source. If any information is incorrect or missing, the driver displays one or more dialog boxes to prompt for the required connection parameters. The driver then connects to the specified data source.
	• SQL_DRIVER_COMPLETE_REQUIRED The driver takes the same actions as it does when SQL_DRIVER_COMPLETE is set. In addition, the driver disables the controls for any information not required to connect to the data source.
	• SQL_DRIVER_PROMPT The driver displays one or more dialog boxes to prompt for the required connection parameters. The driver then connects to the specified data source and builds a connection string from the information specified in the dialog boxes.
	SQL_DRIVER_NOPROMPT
	If the connection string contains correct and sufficient information to connect, the driver connects to the specified data source. If any information is incorrect or missing, the driver returns an error.
SQL_INTEGRATED_SECURITY	Driver Microsoft SQL Server ODBC driver (not supplied with PocketBuilder).
	Purpose Specifies the type of connection to the Microsoft SQL
	Server database server.
	Values The values you can specify are:
	• SQL_IS_OFF (Default) Request a normal (nontrusted) connection to SQL Server using standard security. If you specify SQL_IS_OFF, you cannot request a trusted connection to SQL Server using integrated security.
	• SQL_IS_ON Request a trusted connection to SQL Server using integrated security regardless of the login security currently in use on the database server.

Table 1-1: ConnectOption parameters

Parameter	Description
SQL_OPT_TRACE	Driver Any ODBC driver. Purpose Turns on or turns off the ODBC Driver Manager Trace used in PocketBuilder to troubleshoot a connection to an ODBC data source. The ODBC Driver Manager Trace provides detailed information about the ODBC API function calls that PocketBuilder
	makes when connected to an ODBC data source.Values The values you can specify are:
	• SQL_OPT_TRACE_OFF (Default) Turns off the ODBC Driver Manager Trace.
	• SQL_OPT_TRACE_ON Turns on the ODBC Driver Manager Trace.
	For instructions on using the ODBC Driver Manager Trace, see "Using the ODBC Driver Manager Trace tool" in the <i>Resource Guide</i> .
SQL_OPT_TRACEFILE	Driver Any ODBC driver.
	Purpose Specifies the name of the trace file where you want PocketBuilder to send the output of the ODBC Driver Manager Trace. PocketBuilder appends the output to the trace file you specify until you stop the trace. To display the trace file, you can use the File Editor (in PocketBuilder) or any text editor (outside PocketBuilder).
	Values You can specify any file name for the trace file, following the naming conventions of your operating system. By default, if tracing is on and you have not specified a trace file, PocketBuilder sends ODBC Driver Manager Trace output to the file <i>SQL.LOG</i> .
SQL_PRESERVE_CURSORS	Driver Microsoft SQL Server ODBC driver (not supplied with PocketBuilder).
	Purpose Specifies whether cursors are closed or left open on a SQLTransact call.
	Values The values you can specify are:
	• SQL_PC_OFF (Default) Close all cursors on a SQLTransact call.
	• SQL_PC_ON Keep server cursors open on a SQLTransact call.

Parameter		Description	
SQL_USE_PROCEDURE_ FOR_PREPARE		Driver Microsoft SQL Server OD PocketBuilder).	BC driver (not supplied with
		Purpose Specifies how temporary for a SQLPrepare call.	y stored procedures are treated
		Values The values you can specif	y are:
		• SQL_UP_ON (Default) Generate temporary SQLPrepare call.	stored procedures for a
		• SQL_UP_OFF Do not generate temporary sto SQLPrepare call. The SQL sta run at execution time. Syntax until execution time.	ored procedures for a tement is stored, compiled, and error checking does not occur
		• SQL_UP_ON_DROP Explicitly drop temporary stor SQLPrepare call or when a sta for reuse.	ed procedures for a subsequent tement handle (<i>hstmt</i>) is freed
Default value	ConnectOption = SQL_DRIVER_ SQL_INTEGRA SQL_OPT_TRA SQL_PRESERV SQL_USE_PRC	= 'SQL_DRIVER_CONNECT, COMPLETE; ATED_SECURITY,SQL_IS_OFF ACE,SQL_OPT_TRACE_OFF; YE_CURSORS,SQL_PC_OFF; OCEDURE_FOR_PREPARE,SQL	ς; L_UP_ON'
Usage	You must obtain Corporation. Th	the Microsoft SQL Server ODB is driver is <i>not</i> supplied with Poc	C driver from Microsoft ketBuilder.
Examples	To specify nond	efault options for the ConnectOp	tion DBParm parameter:
	• Database p Setup dialog option in the	rofile Complete the Options tal g box. Each ConnectOption paran e dialog box, as follows:	o in the Database Profile neter corresponds to an
	ConnectO	ption parameter	Corresponding option
	SQL_DRIV	'ER_CONNECT	Connect Type
SQL_INTE SQL_OPT_ SQL_OPT_		GRATED_SECURITY	Integrated Security
		TRACE	Trace ODBC API Calls
		TRACEFILE	Trace File
	SQL_PRES	ERVE_CURSORS	Preserve Cursors
	SQL_USE_	PROCEDURE_FOR_PREPARE	Use Procedure for Prepare

• **PocketBuilder application script** Type the following in a PocketBuilder application script:

SQLCA.dbParm = "ConnectOption =
 'SQL_DRIVER_CONNECT,SQL_DRIVER_NOPROMPT;
 SQL_INTEGRATED_SECURITY,SQL_IS_ON;
 SQL_OPT_TRACE,SQL_OPT_TRACE_ON;
 SQL_OPT_TRACEFILE,C:\myapp\odbctrce.log;
 SQL_PRESERVE_CURSORS,SQL_PC_ON;
 SQL_USE_PROCEDURE_FOR_PREPARE,SQL_UP_OFF'"

ConnectString

Description	Specifies the parameters required to connect to a database.
Applies to	ODBC UL9 UltraLite 9 UL10 UltraLite 10
Syntax	The ConnectString syntax displays on a single line. You must enclose the entire ConnectString in single quotes and separate parameters within the ConnectString with semicolons.

ODBC Syntax

ConnectString = 'DSN = data_source_name; {UID = user_ID; PWD = password; driver_specific_parameters}'

Parameter	Description	
data_source_name	A name that identifies the data source	
user_ID	(Optional) The user ID required to connect to	
	the data source	
password	(Optional) The password required by <i>user_ID</i> to connect to the data source	
driver_specific_parameters	(Optional) Any other driver-specific parameters required to connect	

UltraLite Syntax

ConnectString = 'DBF = database_file_name;UID = user_ID; PWD = password{; driver_specific_parameters}'

Parameter	Description
database_file_name	A name that identifies the database file.
user_ID	The user ID required to connect to the
	database.

	Parameter	Description
	password	The password required by <i>user_ID</i> to connect to the database.
	driver_specific_parameters	(Optional) Any other driver-specific parameters required to connect. Do not supply quotes in this string.
Default value	None	
Usage	For ODBC, PocketBuilder generate you define an ODBC data source an Database Profile Setup dialog box. T source in PocketBuilder.	es the ConnectString automatically when nd copies it to the DBParm box in the This happens before you connect to the data
	Therefore, <i>you do not have to enter</i> an ODBC data source. However, yo value in the Database Profile Setup	<i>the ConnectString yourself</i> when defining ou might need to edit the ConnectString o dialog box.
	You can change the ConnectString Database Profile Setup dialog box. existing ODBC data source, edit its string with the new DSN (data sour	parameter if necessary by editing it in the For example, if you change the name of an a database profile to update the connect rce name) value.
	For UltraLite, you can use the Brows system.	e button to locate the UDB file on your file
Examples	This example shows a connect strir the data source name (DSN=Sales) (PWD=sql). Parameters within the	ng for an ODBC data source that contains , user ID (UID=dba), and password connect string are separated by semicolons.
	• Database profile On the Cordialog box, select Sales from the User ID check box and type data type sql.	nnection tab in the Database Profile Setup he Data Source drop-down list, select the ba, and select the Password check box and
	PocketBuilder application sc PocketBuilder application scrip	ript Type the following in a pt:
SQLCA.dbParm	= "ConnectString ='DSN=Sale	es;UID=dba;PWD=sql'"
	This example shows a connect string database file name, user ID, and pa parameters. Parameters within the c	g for an UltraLite database that contains the ssword, and two additional ConnectString connect string are separated by semicolons.

- Database profile On the Connection tab in the Database Profile Setup dialog box, click the Browse button to navigate to the location of the database file, select the User ID check box and type dba, select the Password check box and type sql, and type key=r2viklj;cp=cs1250 in the Additional ConnectString Parameters box.
- **PocketBuilder application script** Type the following in a PocketBuilder application script:

```
SQLCA.dbParm=
"ConnectString='DBF=C:\uleq.udb;UID=dba;PWD=sql;key=r2viklj;cp=cs1250'"
```

CursorLib

Description	Specifies the cursor library to use when connecting to an ODBC data source.		
Applies to	ODBC		
Syntax	CursorLib = 'valu	CursorLib = ' <i>value</i> '	
	Parameter	Description	
	value	The cursor library to use when connecting to an ODBC data source. Values are:	
		• ODBC_Cur_Lib Use the ODBC Version 2.0 or higher cursor library.	
		• If_Needed Use the ODBC Version 2.0 or higher cursor library if your ODBC driver does not support cursors.	
		• Driver_Cursors (Default) Use your data source's native cursor support.	
Default value	CursorLib = 'Driver_Cursors'		
Examples	To specify use of connecting to an	f the ODBC Version 2.0 or higher cursor library when ODBC data source:	
	Database p drop-down l box.	rofile Select Cursor Library from the Cursor Library ist on the Transaction tab in the Database Profile Setup dialog	
	PocketBuild PocketBuild	der application script Type the following in a der application script:	
	SQLCA.	dbParm = "CursorLib = 'ODBC_Cur_Lib'"	

CursorLock

Description

When used with the CursorScroll parameter, specifies locking options for cursors in an ODBC data source.

The values you can set for CursorLock control two aspects of cursor locking:

- **Concurrent access** Ensures that multiple users can simultaneously access data that is accurate and current.
- **Collision detection** Detects collisions that occur when multiple users update the same data at the same time.

Applies to

Syntax

CursorLock = 'lock_value'

ODBC

	Parameter	Description
	lock_value	Specifies the type of locking you want to use for ODBC cursors. Values are:
		• Lock Use the lowest level of locking sufficient to allow updates on table rows.
		• Opt Use optimistic concurrency control . This means that table rows are not locked against updates by other users. To detect collisions, compare row versions or timestamps.
		• OptVal Use optimistic concurrency control. This means that table rows are not locked against updates by other users. To detect collisions, compare selected values with their previous values.
		• ReadOnly Prohibit updates on table rows by any user.
		For more about how the ODBC standard defines lock values, see your ODBC documentation.
Default value	If you do not spe cursor lock settin	ecify a value for CursorLock, PocketBuilder defaults to the ng specified by your ODBC driver.
Examples	To set scrolling a	and locking options for cursors in an ODBC data source:
	• Database p drop-down l list on the T	rofile Select Dynamic Scrolling from the Scrolling Options list, and Optimistic Using Values from the Locking drop-down ransaction tab in the Database Profile Setup dialog box.
	PocketBuil PocketBuild	der application script Type the following in a ler application script:
	SQLCA	.dbParm = "CursorScroll='Dynamic',CursorLock='OptVal'"
See also	CursorScroll	

CursorScroll		
Description	When used with the CursorLock parameter, specifies scrolling options for cursors in an ODBC data source.	
	The location of a c by a SQL stateme result set one row	cursor indicates the current position in the result set produced nt. Scrolling allows a cursor to move through the data in a at a time.
Applies to	ODBC	
Syntax	CursorScroll = 'so	croll_value'
	Parameter	Description
	scroll_value	Specifies the type of scrolling you want to use for ODBC cursors. Values are:
		• Forward The cursor only scrolls forward through the result set.
		• Static The data in the result set does not change.
		• KeySet Specifies that the cursor is keyset-driven . When a keyset-driven cursor is opened, the driver saves keys for the <i>entire result set</i> . As the cursor scrolls through the result set, the driver uses the keys in this keyset to retrieve the current values for each row.
		• Dynamic The driver saves and uses only the keys for the rows specified in the rowset.
Default value	If you do not specify a value for CursorScroll, PocketBuilder defaults to the cursor scroll settings specified for your ODBC data source driver.	
Usage	For large result sets, it may be impractical to use a keyset-driven cursor requires the driver to save keys for the entire result set. Instead, you can mixed cursor by specifying a 32-bit integer value that is the number of in your keyset (see Example 2). This number is typically smaller than the set. The default keyset size is 0.	
	A mixed cursor us scrolling outside t	es KeySet scrolling within the specified keyset and Dynamic he keyset.
Examples	To set scrolling an	nd locking options for cursors in an ODBC data source:
	• Database produce drop-down list on the Tra	ofile Select Dynamic Scrolling from the Scrolling Options st and Optimistic Using Values from the Locking drop-down ansaction tab in the Database Profile Setup dialog box.

	• PocketBuilder application script Type the following in a PocketBuilder application script:
	SQLCA.dbParm = "CursorScroll = 'Dynamic', CursorLock = 'OptValue'"
	This example sets the number of rows in the keyset to 100. Assume that the entire result set has 1000 rows. When the cursor is opened, the driver saves keys for the first 100 rows of the result set. It then retrieves the next block of 100 keys until the entire result set is retrieved.
	• Database profile Type 100 in the Scrolling Options box on the Transaction tab in the Database Profile Setup dialog box.
	• PocketBuilder application script Type the following in a PocketBuilder application script:
	SQLCA.dbParm = "CursorScroll = 100"
See also	CursorLock
Date	
Description	When you update data in the DataWindow painter, PocketBuilder builds a SQL UPDATE statement in the background. The Date DBParm parameter determines how PocketBuilder specifies a date datatype when it builds the SQL UPDATE statement.

Applies to

Syntax

The Database Profile Setup dialog box inserts special characters (quotes and backslashes) where needed, so you can specify just the date format.

In a PocketBuilder application script, you must use the following syntax. PocketBuilder parses the backslash followed by two single quotes (' \") as a single quote when it builds the SQL UPDATE statement.

Date = ' \"date_format\" '

ODBC

Parameter	Description
'\"	Type a single quote, followed by one space, followed by a backslash, followed by two single quotes. There is no space between the two single quotes and the beginning of the date format.

	Parameter	Description	
	date_format	The date format you want PocketBuilder to use when it builds a SQL UPDATE statement to update a data source in the DataWindow painter.	
		For more on display formats, see the Users Guide.	
	/" '	Type a backslash, followed by two single quotes, followed by one space, followed by a single quote. There is no space between the end of the date format and the backslash.	
Default value	If no value is specified for the Date DBParm parameter, PocketBuilder looks for a date format in the section for your ODBC driver in the <i>pkodb25</i> initialization file. If no date format is found in the initialization file, PocketBuilder uses the ODBC date format escape sequence.		
Examples	Assume you are updating a table named Employee by setting the Startdate column to 2007-04-23. This date is represented by the following date format:		
	уууу-mm-dd		
	To specify that PocketBuilder should use this format for the date datatype when it builds the SQL UPDATE statement:		
	• Database profile Syntax tab in the	• Type the following in the Date Format box on the Database Profile Setup dialog box:	
	yyyy-mm-d	d	
	• PocketBuilder a PocketBuilder a	application script Type the following in a pplication script:	
	SQLCA.dbP	'arm = "Date = ' \''yyyy-mm-dd\'' '"	
	<i>What happens</i> Pocl to update the table:	ketBuilder builds the following SQL UPDATE statement	
	UPDATE EMPLO SET STARTDAT	YEE E = '2007-04-23'	
See also	DateTime Time		

DateTime

Description	When you update data in the DataWindow painter, PocketBuilder builds a SQL UPDATE statement in the background. The DateTime DBParm parameter determines how PocketBuilder specifies a DateTime datatype when it builds the SQL UPDATE statement. (A DateTime datatype contains both a date value and a time value.)
Applies to	ODBC
Syntax	The syntax you use to specify the DateTime DBParm differs slightly depending on the database.
	The Database Profile Setup dialog box inserts special characters (quotes and backslashes) where needed, so you can specify just the DateTime format.

In a PocketBuilder application script, you must use the following syntax. PocketBuilder parses the backslash followed by two single quotes (\") as a single quote when it builds the SQL UPDATE statement.

	Parameter	Description
	<u>ار</u> "	Type a single quote, followed by one space, followed by a backslash, followed by two single quotes. There is no space between the two single quotes and the beginning of the DateTime format.
	DateTime_format	The DateTime format you want PocketBuilder to use when it builds a SQL UPDATE statement to update a data source in the painter.
		For more on display formats, see the Users Guide.
	\"'	Type a backslash, followed by two single quotes, followed by one space, followed by a single quote. There is no space between the end of the date format and the backslash.
Default value	If no value is specified for the DateTime DBParm parameter, PocketBuilder looks for a DateTime format in the section for your ODBC driver in the <i>pkodb25</i> initialization file. If no DateTime format is found in the initialization file, PocketBuilder uses the ODBC DateTime format escape sequence.	
Examples	Assume you are up to 4/2/07 3:45 pm. format. To specify datatype when it bu	dating a table named Files by setting the Timestamp column This DateTime is represented by the following DateTime that PocketBuilder should use this format for the DateTime uilds the SQL UPDATE statement:

Database profile Type the following in the DateTime Format box on the • Syntax tab in the Database Profile Setup dialog box:

m/d/yy h:mm am/pm

PocketBuilder application script Type the following in a • PocketBuilder application script:

> SQLCA.dbParm = "DateTime = ' \''m/d/yy h:mm am/pm\'' '"

What happens PocketBuilder builds the following SQL UPDATE statement to update the table:

```
UPDATE FILES
SET TIMESTAMP = '4/2/07 3:45 pm'
```

See also

Date Time

Description

Specifies the number of seconds PocketBuilder waits for a response from the DBMS when you retrieve rows in a DataWindow object or query. When you set the Async parameter to 1 to enable asynchronous operation, you can also set the DBGetTime parameter for those DBMSs that support this parameter.

> If DBGetTime is set to 0 (the default), PocketBuilder waits indefinitely for a DBMS response (the request never times out). If the DBGetTime value expires before the first row is retrieved, your request is automatically canceled.

Applies to ODBC

Syntax

DBGetTime = value

Parameter	Description
value	The number of seconds PocketBuilder waits for a DBMS
	response while waiting to retrieve the first row of a DataWindow
	object or query

DBGetTime = 0Default value Usage

Requirements for using DBGetTime To use the DBGetTime parameter, you must do *both* of the following:

- Set the Async parameter to 1 to enable asynchronous operation, as shown in the Examples
- ٠ Code a RetrieveRow event for a DataWindow object

Examples	To enable asynchronous operation and set the DBGetTime parameter to 20 seconds:		
	• Database profile Select the Asynchronous check box and type 20 in the Number Of Seconds To Wait box on the Transaction tab in the Database Profile Setup dialog box.		
	• PocketBuilder application script Type the following in a PocketBuilder application script:		
	SQLCA.	dbParm = "Async = 1, DBGetTime = 20"	
See also	Async		
DBTextLimit			
Description	Specifies the maximum length of a long VarChar column that can be returned when you include the column in a SQL SELECT statement.		
Applies to	UL9 UltraLite UL10 UltraLite 10		
Syntax	DBTextLimit = 'value'		
	Parameter	Description	
	value	The maximum length in bytes of a long VarChar column that UltraLite returns when you include the column in a SQL SELECT statement. The range of valid values is from 0 bytes to 65,536 bytes.	
		If you set DBTextLimit to 0 or to a value that exceeds the maximum value, UltraLite returns the maximum length column.	
Default value	DBTextLimit='32767'		
Usage	You can set the DBTextLimit parameter if you want to include a long VarChar column in a DataWindow object without treating it as a binary large object (blob) and using SelectBlob and UpdateBlob. Setting DBTextLimit preallocates a buffer for retrieving the data.		
Examples	To have DB-Library or CT-Library return a long VarChar column that is up to 32,000 bytes long when you include the column in a SQL SELECT statement:		

• **Database profile** Type 32000 in the DBTextLimit box on the Syntax tab in the Database Profile Setup dialog box.

• **PocketBuilder application script** Type the following in a PocketBuilder application script:

SQLCA.dbParm = "DBTextLimit='32000'"

DecimalSeparator

Description	Specifies the de are accessing in than a period (. your DBMS to returned from y	Specifies the decimal separator setting used by the back-end DBMS that you are accessing in PocketBuilder. If your DBMS uses a decimal separator other than a period (.), which is the default, set DecimalSeparator to the value for your DBMS to ensure that PocketBuilder correctly handles numeric strings returned from your database.		
Applies to	ODBC	ODBC		
Syntax	DecimalSepara	DecimalSeparator = 'value'		
	Parameter	Description		
	value	 The decimal separator setting used by the back-end DBMS that you are accessing in PocketBuilder. Values are: '.' (Default) Specifies that your back-end DBMS uses a period (.) as the decimal separator. If you do not specify DecimalSeparator or if you specify a value other than period (.) or comma (,), PocketBuilder uses period (.) as the decimal separator. ',' Specifies that your back-end DBMS uses a comma (,) as the decimal separator. 		
Default value	DecimalSepara	DecimalSeparator = '.'		
Usage	When to set De supports a perio separator settin DecimalSepara correctly handl	When to set DecimalSeparator The DecimalSeparator DBParm currently supports a period (.) and a comma (,) as valid values. Therefore, if the decimal separator setting for your DBMS is a comma, you should set the DecimalSeparator DBParm to ',' (comma) to make sure PocketBuilder correctly handles numeric strings returned from your database.		
Examples To specify that your DBMS uses a comm		your DBMS uses a comma (,) as the decimal separator setting:		
	• Database profile Type a comma (,) in the Decimal Separator box on the Syntax tab in the Database Profile Setup dialog box.			
	• PocketBuilder application script Type the following in a PocketBuilder application script:			
	SQLCA	A.dbParm = "DecimalSeparator = ','"		
See also	NumericFormat			

DelimitIdentifier

Description	Specifies whether you want PocketBuilder to enclose the names of tables, columns, indexes, and constraints in double quotes when it generates SQL statements. This affects the behavior of any PocketBuilder painter that generates SQL syntax.		
	When to specify DelimitIdentifier You must specify the DelimitIdentifier DBParm parameter <i>before</i> connecting to the database in PocketBuilder.		
Applies to	ODBC UL9 UltraLite 9 UL10 UltraLite 10		
Syntax	DelimitIdentifier :	= ' <i>value</i> '	
	Parameter	Description	
	value	Specifies whether you want PocketBuilder to enclose table and column names in double quotes. Values are:	
		• Yes Use double quotes.	
		• No Do not use double quotes.	
Default value	For ODBC, the default value for the DelimitIdentifier parameter depends on the DelimitIdentifer setting in the <i>pkodb25</i> initialization file, which is 'YES' by default. For UltraLite, DelimitIdentifier='NO'.		
Usage	For ODBC, the DelimitIdentifier DBParm setting overrides the DelimitIdentifier setting specified for your ODBC driver in the <i>pkodb25</i> initialization file.		
Examples	To specify that PocketBuilder should not enclose table and column names in double quotes when it generates SQL statements:		
	• Database profile Clear the Enclose Table And Column Names In Quotes check box on the Syntax tab in the Database Profile Setup dialog box.		
	• PocketBuilder application script Type the following in a PocketBuilder application script:		
	SQLCA.	dbParm = "Delimitidentifier='No'"	

Disablebillu			
Description	For those DBMSs that support bind variables, PocketBuilder binds input parameters to a compiled SQL statement by default. The DisableBind parameter allows you to specify whether you want to disable this default binding. When you set DisableBind to 1 to disable the binding, PocketBuilder replaces the input variable with the value entered by the application user or specified in a PocketBuilder script.		
Applies to	ODBC		
Syntax	DisableBind = va	alue	
	Parameter	Description	
	value	Specifies whether you want to disable the default binding of input parameters to a compiled SQL statement. Values are:	
		• 0 (Default) PocketBuilder binds input parameters to a compiled SQL statement.	
		• 1 PocketBuilder does <i>not</i> bind input parameters to a compiled SQL statement.	
Default value	DisableBind = 0		
Usage	<i>Bind variables</i> In a SQL statement, a bind variable is a placeholder for a column value. By default, PocketBuilder associates (binds) data from a variable defined in your application to the bind variable each time the SQL statement executes.		
	<i>Using bind variables in SQL statements</i> For example, the following SQL statement retrieves those rows in the Books table about books that are written by Hemingway:		
	SELECT *	FROM books WHERE author = "Hemingway"	
	Suppose that you want to execute this statement to get information about books written by other authors. Instead of compiling and executing a new statement for each author, you can define a bind variable that represents the author's name. The user then supplies the author's actual name when the application executes. By using bind variables, you ensure that the statement is compiled only once and executed repeatedly with new values supplied by the user.		
	If your database supports bind variables and DisableBind is set to 0 (the default) to enable binding, PocketBuilder generates the statement with parameter markers (:bind_param) and passes the actual parameter value at execution time. For example:		
	SELECT *	FROM books WHERE author = :bind_param	

DisableBind

Bind variables and cached statements Using bind variables in conjunction with cached statements can improve the performance of most applications, depending on the application. In general, applications that perform a large amount of transaction processing benefit the most from using bind variables and cached statements.

In order to use cached statements, make sure that DisableBind is set to 0. This enables the binding of input variables to SQL statements in PocketBuilder. (For more about using cached statements, see the description of the SQLCache parameter.)

Bind variables improve performance by allowing PocketBuilder to insert and modify strings that exceed 255 characters.

Bind variables and default column values When DisableBind is set to 0 to enable the use of bind variables, the DataWindow painter does both of the following to get maximum performance improvement from using bind variables when you add rows to a DataWindow object:

- Generates a SQL INSERT statement that includes all columns (except identity and SQL Server timestamp)
- Reuses this SQL INSERT statement for each row you add to the DataWindow object

For example, if a table named Order_T contains three columns named Order_ID, Order_Date, and Customer_ID, the DataWindow painter generates the following SQL INSERT statement when DisableBind is set to 0 (default binding enabled):

If one of these columns is null, the DataWindow painter sets a null value indicator for this column parameter and executes the statement. This behavior is important to understand if you want your back-end DBMS to set a default value for any columns in your DataWindow object.

To illustrate, suppose that your application users do not enter a value for the Order_Date column because they expect the back-end DBMS to set this column to a default value of TODAY. Then, they retrieve the row and find that a null value has been set for Order_Date instead of its default value. This happens because the SQL INSERT statement generated by the DataWindow painter specified a null value indicator, so the DBMS set the column value to null instead of to its default value as expected.

Setting a default column value when binding is enabled If you are using
bind variables (DisableBind set to 0) and want the back-end DBMS to set a
column to its default value when your application user does not explicitly enter
a value in a new row, you should set an initial value for the DataWindow object
column that mirrors the DBMS default value for this column.

In the DataWindow painter, you can set or modify a column's initial value in the Column Specifications dialog box.

For more about the Column Specifications dialog box, see the Users Guide.

Setting a default column value when binding is disabled If you are *not* using bind variables (DisableBind set to 1) and want the back-end DBMS to set a column to its default value when your application user does not explicitly enter a value in a new row, you do *not* need to set an initial value for the DataWindow column.

This is because with bind variables disabled, the DataWindow painter generates a SQL INSERT statement for each row added to the DataWindow. If a column does not contain an explicit value, it is not included in the SQL INSERT statement.

Using the Order_T table example, if your application user enters 123 as the value for the Order_ID column and A-123 as the value for the Customer_ID column, the DataWindow painter generates the following SQL INSERT statement when DisableBind is set to 1 (binding disabled):

Your back-end DBMS would then set the Order_Date column to its default value as expected, since a value for Order_Date is not explicitly set in the SQL INSERT statement generated by the DataWindow painter.

Examples To specify that PocketBuilder should disable the binding of input parameters to a compiled SQL statement:

- **Database profile** Select the Disable Bind check box on the Transaction tab in the Database Profile Setup dialog box.
- **PocketBuilder application script** Type the following in a PocketBuilder application script:

```
SQLCA.dbParm = "DisableBind = 1"
```

See also

SQLCache

FormatArgsAsExp

Description	Controls whether PocketBuilder converts a DataWindow retrieval argument of decimal datatype to scientific (exponential) notation if the argument exceeds 12 digits but has fewer than 16 digits. If FormatArgsAsExp is set to Yes, PocketBuilder performs this conversion.		
	When to specify FormatArgsAsExp You must specify a value for FormatArgsAsExp <i>before</i> connecting to the database in PocketBuilder.		
Applies to	ODBC UL9 UltraLite 9 UL10 UltraLite 10		
Syntax	FormatArgsAsExp	= 'value'	
	Parameter	Description	
	value	 Specifies whether you want PocketBuilder to convert a DataWindow retrieval argument of decimal datatype to scientific (exponential) notation if the argument exceeds 12 digits but has fewer than 16 digits. Values are: Yes PocketBuilder converts a retrieval argument of decimal datatype to scientific notation if it exceeds 12 digits but has fewer than 16 digits. No (Default) PocketBuilder leaves the retrieval argument as a decimal and does not perform the default conversion to scientific notation if it exceeds 12 digits but has fewer than 16 digits. 	
Default value	FormatArgsAsExp = 'No'		
Usage	<i>When to use</i> The setting of FormatArgsAsExp might affect the speed of data retrieval in your DataWindow objects, especially if you are accessing large databases.		
	If FormatArgsAsExp is set to Yes, some DBMS optimizers might interpret the resulting scientific notation as a different datatype and scan all rows in the table to find it. This can slow data retrieval if, for example, you are accessing a DB2 database with many large tables.		
	Setting FormatArgsAsExp to No causes PocketBuilder to leave the retrieval argument as a decimal. This speeds data retrieval for large databases.		

The FormatArgsAsExp DBParm is relevant only if a retrieval argument of type decimal has fewer than 16 digits.

Examples To tell PocketBuilder to convert a retrieval argument with more than 12 digits but fewer than 16 digits to scientific notation:

- **Database profile** In the Database Profile Setup dialog box, check the Format Arguments in Scientific Notation check box on the Syntax tab.
- **PocketBuilder application script** Type the following in a PocketBuilder script:

SQLCA.DBParm = "FormatArgsAsExp='Yes'"

IdentifierQuoteChar

Description Specifies the single quote character you want PocketBuilder to use to delimit the names of identifiers (tables, columns, indexes, and constraints) when it generates SQL statements. PocketBuilder uses the quote character you specify instead of the default quote character returned by your driver or data provider.

DelimitIdentifier must be set to Yes

For IdentifierQuoteChar to take effect, the DelimitIdentifier parameter must be set to Yes. Otherwise, PocketBuilder's default behavior is *not* to delimit identifiers in SQL statements and to ignore any value specified for IdentifierQuoteChar.

Applies to	ODBC	
Syntax	IdentifierQuoteChar = 'quote_character'	
	Parameter	Description
	quote_character	The single character you want PocketBuilder to use instead of your driver's or data provider's default quote character to delimit the names of identifiers in SQL statements
Default value	None	

	PocketBuilder searches the following in this order to determine the IdentifierQuoteChar value:			
	1 The section for your database profile in the PocketBuilder initialization file (in the development environment) or the value of the Transaction object DBParm property (in a PocketBuilder application).			
	2 The section for your ODBC driver in the <i>pkodb25</i> initialization file.			
	If PocketBuilder does not find an IdentifierQuoteChar value in these locations, it makes a SQLGetInfo call to your driver to return the default SQL_IDENTIFIER_QUOTE_CHAR value.			
Usage	By default, some drivers return quote characters that do not work with PocketBuilder's parsing routines, such as the backquote character (`). As a result, delimiting is turned off for these drivers in PocketBuilder.			
	However, if you paint SQL statements containing identifiers that require delimiters, syntax errors can occur if you are using a driver for which delimiting is turned off. To avoid such errors, set IdentifierQuoteChar to override the driver's default quote character.			
Examples	To specify c as the quote character you want PocketBuilder to use to delimit identifiers in SQL statements:			
	• Database profile Type c in the Identifier Quote Character box on the Syntax tab in the Database Profile Setup dialog box.			
	• PocketBuilder application script Type the following in a PocketBuilder application script:			
	SQLCA.dbParm = "IdentifierQuoteChar = 'c'"			
See also	DelimitIdentifier			

LoginTimeOut

Description	Specifies the number of seconds the ODBC driver should wait for a login request to an ODBC data source.	
Applies to	ODBC	
Syntax	LoginTimeOut = <i>value</i>	
	Parameter	Description
	value	The number of seconds you want the driver to wait for a login request

Default value	LoginTimeOut = 15		
Usage	If you set LoginTimeOut to 0, PocketBuilder does not call the ODBC driver to set the LoginTimeOut value and instead waits the number of seconds specified by the ODBC driver's client software. If you set LoginTimeOut to a value greater than 0, PocketBuilder does call the ODBC driver to set the LoginTimeOut value.		
Examples	To set the LoginTimeOut value to wait 60 seconds for a login request:		
	• Database profile Type 60 in the Login Timeout box on the Network tab in the Database Profile Setup dialog box.		
	• PocketBuilder application script Type the following in a PocketBuilder application script:		
	SQLCA.dbParm = "LoginTimeOut = 60"		

MsgTerse

Description	Specifies whether PocketBuilder should display terse error messages for ODBC drivers. A terse error message is one without the SQLSTATE = $nnnn$ prefix, where $nnnn$ is the number of the error message.		
	By default, PocketBuilder displays ODBC error messages with the SQLSTATE prefix. To display error messages without the SQLSTATE prefix, set MsgTerse to Yes.		
Applies to	ODBC		
Syntax	MsgTerse = ' <i>value</i> '		
	Parameter	Description	
	value	Specifies whether PocketBuilder should display error messages without the SQLSTATE prefix. Values are:	
		• Yes Display error messages <i>without</i> the SQLSTATE prefix.	
		• No (Default) Display error messages <i>with</i> the SQLSTATE prefix.	
Default value	MsgTerse = 'No'		
Usage	You can set the MsgTerse DBParm parameter to Yes to display shorter ODBC error messages in PocketBuilder. This may be useful if space on your screen is limited.		

Examples

To specify that PocketBuilder should display terse error messages without the SQLSTATE prefix:

- **Database profile** Select the Display Terse Error Messages check box on the System tab in the Database Profile Setup dialog box.
- **PocketBuilder application script** Type the following in a PocketBuilder application script:

SQLCA.dbParm = "MsgTerse = 'Yes'"

NumericFormat

Description	If supported by the DBMS or back-end database, setting NumericFormat tells the driver to do special formatting of numeric strings in SQL syntax. This formatting affects how PocketBuilder generates numeric values in the SQL syntax it internally builds in DataWindow objects and reports and sends to your database.	
Applies to	ODBC	
Syntax	In the PocketBuilder development environment, the Database Profile Setup dialog box inserts special characters (quotes) where needed, so you can specify just the NumericFormat value (%s in this example).	
	In a PocketBuilder application script, you must use the following syntax if you are accessing an Oracle database through the ODBC interface. Note the use of <i>three single quotes</i> at the beginning and end of the string:	
	NumericFormat = "%s,%s"	
	In a PocketBuilder application script, you must use the following syntax if you are accessing an IBM DB2 database through the ODBC interface. Note the use of <i>one single quote</i> at the beginning and end of the string:	
	NumericFormat = '%s,%s'	
	Parameter Description	

Parameter	Description
'	Type three single open quotes. PocketBuilder parses the second and third quotes as one single open quote in the SQL syntax it builds and sends to the database.
%s	Represents one or more digits to the <i>left of the decimal</i> in the numeric string. PocketBuilder substitutes this value with the digits to the left of the decimal when it builds the SQL syntax.
,	Represents the decimal separator character (in this case a comma).

	Parameter	Description	
	% s	Represents one or more digits to the <i>right of the decimal</i> in the numeric string. PocketBuilder substitutes this value with the digits to the right of the decimal when it builds the SQL syntax.	
	'	Type three single closed quotes. PocketBuilder parses the first and second quotes as one single closed quote in the SQL syntax it builds and sends to the database.	
Default value	None		
Usage When to set NumericFormat In general, you a NumericFormat DBParm parameter. Most back that the driver do special formatting of numeric However, some databases may require special for DB2/MVS database server configured to use a of separator.		<i>umericFormat</i> In general, you should <i>not</i> need to set the at DBParm parameter. Most back-end DBMSs do not require do special formatting of numeric strings in SQL syntax. e databases may require special formatting, such as an IBM abase server configured to use a comma as the decimal	
	In these cases, setting NumericFormat allows you to generate numeric values with special formatting in the SQL syntax that PocketBuilder builds in DataWindow objects and reports and sends to your database. For example, if the decimal separator for your DBMS is a comma, you might want to set NumericFormat as shown in the Examples section below to use a comma as the decimal delimiter in the SQL syntax sent to your database.		
Examples	This example s two numeric va comma as a de objects and rep	shows how to specify that you want PocketBuilder to generate alues in the format '125,50' and '4,0'. PocketBuilder uses the cimal separator in the SQL syntax it builds in DataWindow ports and sends to an Oracle database.	
	• Database Syntax tab	profile Type the following in the Numeric Format box on the o in the Database Profile Setup dialog box:	
	%S,%	S	
	PocketBu PocketBui	ilder application script Type the following in a lder application script:	
	SQLC	A.dbParm = "NumericFormat = '''%s,%s'''"	
	<i>What happens</i> statement in th PocketBuilder	PocketBuilder internally builds the following SQL INSERT e DataWindow object and sends the syntax to your database. returns single quotes in the SQL syntax.	
	INSERT J VALUES	INTO MYTABLE (a, b) ('125,50', '4,0')	
See also	DecimalSepara	ator	

OJSyntax

Description	Specifies how PocketBuilder formats the SQL syntax for outer joins for the database back end you are accessing.		
Applies to	ODBC	ODBC	
Syntax	OJSyntax = <i>value</i>		
	Parameter	Description	
	value	Specifies how you want SQL syntax to be formatted. Values are:	
		• ANSI_Escape Apply ANSI standards and enclose the outer joins in escape notation { oj } that is parsed by the driver and replaced with DBMS-specific grammar.	
		ANSI Apply ANSI standards.	
		• PB Maintain rules that applied to PowerBuilder 7.	
Default value	OJSyntax = ANSI_ESCAPE		
Usage	PocketBuilder provides support for ANSI SQL-92 outer join SQL syntax generation. It supports both left and right outer joins in graphics mode and full outer and inner joins in syntax mode.		
	You must set th syntax you war the default can	ne OJSyntax DBParm to indicate the version of outer join SQL nt PocketBuilder to generate. The default is ANSI_Escape, and be reset to ANSI or PB (native).	
	OJSyntax is a c therefore be ch a PowerScript	dynamic DBParm in all database drivers that support it. It can anged at any time during the life of a database connection with statement such as:	
	SQLCA.DE	Parm="OJSyntax='ANSI_ESCAPE' "	
	<i>Define outer joins in the SQL painter for portability</i> When you define an outer join SELECT statement graphically in the SQL painter, the DataWindow object stores the SQL in pseudocode. At runtime, the outer join syntax is generated based on the current OJSyntax DBParm setting. This provides some degree of portability for DataWindow objects among multiple DMBSs.		
	When you define an outer join SELECT statement in syntax mode, the		

DataWindow object stores the SQL as syntax. This syntax is used without modification at runtime. The OJSyntax DBParm setting does *not* affect the SQL.

Using native outer join syntax The option PB generates native outer join syntax. It is available for ODBC only if PBOuterJoin and PBOuterJoinOperator syntax entries are set in the appropriate SYNTAX section for your DBMS in the *Sybase\PocketBuilder 2.5\pkodb25.ini* file.

When you migrate applications from PowerBuilder 7 and earlier versions of PowerBuilder, using ANSI outer join syntax might produce errors, depending on how the joins were defined in the painter. If a table is joined to multiple other tables with right outer joins, a valid ANSI outer join statement cannot be generated.

For more information about outer joins, see the section on using ANSI outer joins in the *Users Guide*.

Examples To set the value of OJSyntax:

- **Database profile** Select the appropriate value from the Outer Join Syntax drop-down list on the Syntax tab in the Database Profile Setup dialog box.
- **PocketBuilder application script** Type the following in a PocketBuilder application script:

SQLCA.dbParm = "OJSyntax = 'ANSI'"

PacketSize			
Description	Specifies the network packet size in bytes when you access an ODBC data source in PocketBuilder. Many back-end DBMSs either do not support the PacketSize option or can return only the current network packet size. For information about whether the DBMS you are accessing supports PacketSize, see your DBMS documentation.		
	When to specify PacketSize If your back-end DBMS supports it, you must specify the PacketSize DBParm parameter <i>before</i> connecting to the database in PocketBuilder.		
Applies to	ODBC		
Syntax	PacketSize = v	/alue	
	Parameter	Description	
	value	A 32-bit integer value that specifies the network packet size in bytes	
Default value	The default value for PacketSize is the default for your back-end DBMS.		
Usage	If the PacketSize value you specify is larger than the maximum network packet size or smaller than the minimum network packet size, your ODBC driver substitutes the maximum or minimum value for the value you specified.		

Examples

To set the network packet size for an ODBC data source to 2048 bytes:

• **Database profile** Type the following in the Packet Size box on the Network tab in the Database Profile Setup dialog box:

2048

• **PocketBuilder application script** Type the following in a PocketBuilder application script:

SQLCA.dbParm = "PacketSize = 2048"

PBCatalogOwner

Description	Specifies a nondefault owner for the five extended attribute system tables. These tables contain default extended attribute information for your database.		
	When you specify a PBCatalogOwner name that is different from the default owner for your DBMS, PocketBuilder creates a new set of tables with the owner name you specify.		
	When to specify You must specify to the database i	y PBCatalogOwner y the PBCatalogOwner DBParm parameter <i>before</i> connecting n PocketBuilder.	
Applies to	ODBC		
Syntax	PBCatalogOwner = 'owner_name'		
	Parameter	Description	
	owner_name	Specifies the owner of the extended attribute system tables	
Default value	If a value for PBCatalogOwner is not specified in the database profile or in the registry, the default value is the user ID specified in the database profile.		
Usage	<i>When to set</i> When you specify a nondefault owner for the extended attribute system tables, you are in effect creating alternative tables. This is useful if you want to test new validation rules or display formats without overwriting the extended attributes currently in the default tables.		
	When you connect to an ODBC data source and a value for PBCatalogOwner is set in both the database profile and the <i>pkodb25</i> initialization file, the setting in the profile overrides the setting in the <i>pkodb25</i> initialization file.		
	This parameter cannot be set dynamically. The value set when the connection is made remains in effect until it is disconnected.		

Examples This example shows how to create a new set of extended attribute system tables with the owner TEST. The names of the new tables have the prefix TEST, such as TEST.pbcatcol, TEST.pbcatedt, and so on.

• **Database profile** Type the following in the PowerBuilder Catalog Table Owner box on the System tab in the Database Profile Setup dialog box:

TEST

• **PocketBuilder application script** Type the following in a PocketBuilder application script:

SQLCA.dbParm = "PBCatalogOwner = 'TEST'"

PBUseProcOwner

Description When you access a database through the ODBC interface and define a DataWindow object that uses a stored procedure as its data source, PBUseProcOwner specifies whether PocketBuilder should qualify the stored procedure with the owner name in the SQL EXECUTE statement passed to the driver.

PocketBuilder qualifies the stored procedure with an owner only if the owner associated with the stored procedure is different from the ID of the current user (the developer building the DataWindow object or the user running the application containing the DataWindow object).

Applies to ODBC

Syntax

PBUseProcOwner = 'value'

Parameter	Description		
value	Specifies whether PocketBuilder should qualify the stored procedure with its owner name in the SQL EXECUTE statement built by the DataWindow object and passed to the driver. Values are:		
	 Yes If the owner associated with the stored procedure is different from the current user ID, PocketBuilder qualifies the stored procedure with its owner name in the SQL EXECUTE statement and passes this information to the driver. This allows users to execute stored procedures they do not own. For example: EXECUTE FRAN.MYPROCEDURE No (Default) PocketBuilder does not qualify the stored procedure with its owner name in the SQL EXECUTE statement passed to the driver. For example: EXECUTE 		

Default value	PBUseProcOwner = 'No'			
Usage	PocketBuilder searches the following in this order to determine the PBUseProcOwner value:			
	1 The section for your database profile in the PocketBuilder initialization file in the development environment, or the value of the Transaction object DBParm property in a PocketBuilder application.			
	2 The section for your ODBC driver in the <i>pkodb25</i> initialization file.			
	If PocketBuilder does not find a PBUseProcOwner value in these locations, it defaults to a value of No.			
	DBA (database administrator) is a reserved word in SQL Anywhere syntax. If you define a DataWindow object with a SQL Anywhere stored procedure as its data source and DBA owns the stored procedure, the painter passes the following SQL EXECUTE statement to the ODBC driver if PBUseProcOwner is set to Yes:			
	EXECUTE DBA.MYPROCEDURE			
	This statement generates a syntax error because it includes the DBA reserved word.			
	If DBA owns the SQL Anywhere stored procedure you are using, you can avoid this syntax error by setting PBUseProcOwner to No so that PocketBuilder does not qualify the stored procedure with DBA.			
	In some situations, however, you <i>must</i> qualify the stored procedure with the DBA owner. For example, the DBA might want to grant execute permission to another user ID. In this case, you can avoid errors by editing the SQL EXECUTE syntax to enclose DBA in quotes, like this:			
	EXECUTE "DBA".MYPROCEDURE			
Examples	To specify that PocketBuilder should qualify the stored procedure with its owner name in the SQL EXECUTE statement:			
	• Database profile Select the Qualify Stored Procedures With Owner Name check box on the Transaction tab in the Database Profile Setup dialog box.			
	• PocketBuilder application script Type the following in a PocketBuilder application script:			
	SQLCA.dbParm="PBUseProcOwner='Yes'"			

RPCRebind				
Description	Specifies whe (RPC) parame	Specifies whether you want PocketBuilder to rebind Remote Procedure Call (RPC) parameters.		
	When to specify in the specific spec	cify RPCRebind end DBMS supports the RPCRebind DBParm parameter, you it <i>before</i> connecting to the database in PocketBuilder.		
Applies to	ODBC			
Syntax	RPCRebind =	value		
	Parameter	Description		
	value	Specifies whether you want PocketBuilder to rebind RPC parameters. Values are:		
		• 0 (Default) Use the bound variable to determine all required binding information.		
		• 1 Rebind the parameters and use the parameter information returned from the database to bind the parameter.		
Default value	RPCRebind =	0		
Usage	For those DB for the call ba	MSs that support RPC calls, PocketBuilder binds the parameters sed on the size of the variables bound to the parameters.		
	Some drivers returned from Failure to use parameters. H variable size. want to rebind	require rebinding of the parameters so that the parameter size (as the back-end database) is used instead of the variable size. the parameter size might result in an error or truncation for string owever, some drivers always expect the binding to reflect the The RPCRebind parameter allows you to specify whether you I the parameters when RPCs are executed.		
Examples	To specify the	tt PocketBuilder should rebind RPC parameters:		
	• Database tab in the	e profile Select the RPC Rebind check box on the Transaction Database Profile Setup dialog box.		
	• PocketB PocketBu	uilder application script Type the following in a ilder application script:		
	SQLO	CA.dbParm = "RPCRebind = 1"		

SQLCache

Description	Specifies the number of SQL statements PocketBuilder should cache. The default is 0, specifying an empty SQL cache.			
	PocketBuilder caches:			
	• SQL stateme	ents generated by a DataWindow object		
	• Embedded S	QL statements		
Applies to	ODBC			
Syntax	The syntax for setting SQLCache depends on the database interface you are using.			
	Use the following syntax to set the SQLCache parameter:			
	SQLCache =	- value		
	Parameter	Description		
	value	The number of cursors you want to open in a script, plus the number of DataWindow-generated SELECT statements with retrieval arguments (default = 0).		
Default value	SQLCache = 0			
Usage	<i>Maintaining statements in the cache</i> Statements in the SQL cache are maintained on a least-recently-used (LRU) basis. In other words, if a statement must be removed from the cache to make room for another statement, PocketBuilder removes the statement that was least recently executed.			
	<i>SQLCache and bind variables</i> Caching SQL statements that you frequently execute improves their performance. Statements with bind variables are generally the most frequently used. In fact, if your DBMS does not support bind variables, caching statements is of limited value.			
	<i>Setting DisableBind to use cached statements</i> In order to use cached statements, make sure the DisableBind DBParm parameter is set to 0 (the default). This enables the binding of input variables to SQL statements.			
	For more about using bind variables, see DisableBind.			
	<i>What happens</i> The first time you execute a SQL statement containing bind variables, PocketBuilder does the following in this sequence:			
	1 Parses the statement.			
	2 For SQL SEI get a descrip	LECT statements, calls the appropriate database function to tion of the result set.		

	3 Allocates memory buffers for the bind variables.
	4 Binds the allocated memory buffers to the parsed statement.
	When you cache this SQL statement, PocketBuilder stores the parsed statement, result set description, and memory buffer allocation and binding in the SQL cache. The next time you execute this statement, PocketBuilder finds it in the cache and avoids the overhead of repeating these steps.
	If PocketBuilder finds an exact match for this statement in the SQL cache, it simply copies the new values supplied for the bind variables to the preallocated memory buffers and executes the statement. This is much faster than having to process the statement from scratch.
	<i>Determining the size of your SQL cache</i> To determine an appropriate size for your SQL cache, you can check the value of the SQLReturnData property of the Transaction object.
	When you disconnect from the database, the number of hits, misses, and entries in the SQL cache is stored in SQLReturnData as follows:
	• Hits – the number of times PocketBuilder found a matching statement in the SQL cache
	• Misses – the number of times PocketBuilder did not find a matching statement in the cache
	• Entries – the total number of statements in the SQL cache, which is determined by your SQLCache setting
Examples	To set the SQL cache size to 25 statements:
	• Database profile Type 25 in the Number Of SQL Statements Cached box on the Transaction tab in the Database Profile Setup dialog box.
	• PocketBuilder application script Type the following in a PocketBuilder application script:
	SQLCA.dbParm = "SQLCache = 25"
See also	DisableBind

StaticBind

Description	Specifies whether PocketBuilder gets a result set description to validate the SELECT statement against the database server before retrieving the data.		
Applies to	ODBC UL9 UltraLite 9 UL10 UltraLite 10		
Syntax	StaticBind = value	e	
	Parameter	Description	
	value	Specifies whether you want PocketBuilder to get a result set description before retrieving data from a database into a DataWindow object. Values are:	
		• 0 Get a result set description before retrieving data. You can also specify 'No' to set this value.	
		• 1 Skip getting a result set description before retrieving data. You can also specify 'Yes' to set this value.	
Default value	StaticBind = 1 (ODBC), StaticBind=0 (UltraLite)		
Usage	<i>ODBC</i> Before it retrieves data from a database into a DataWindow object, PocketBuilder does not get a result set description to validate the SELECT statement against the database server. This default behavior generally speeds up the retrieval, especially when you are accessing the database over a network. (This feature is called describeless retrieval .)		
	If you want to override the default behavior and have PocketBuilder get a description of the result set before retrieving data, set the StaticBind DBParm parameter to 0 or No.		
	<i>UltraLite</i> There is currently no advantage to setting StaticBind to 1 for UltraLite connections, therefore it is set to 0 and disabled in this release.		
	<i>Validation</i> When StaticBind is set to 1 (the default), PocketBuilder assumes that the result set matches the column format of the DataWindow object into which it is being retrieved. If a mismatch occurs, PocketBuilder displays an error.		
	<i>Troubleshooting tips</i> Problems can occur in your application if the result set description obtained by the DataWindow object is different from the current database description of the result set. This can be due to the following reasons:		
	• The database	e definition changes after you build the DataWindow object	
	• You build the DataWindow object while connected to one DBMS and then run it against a different DBMS		

To fix problems caused by conflicting result set descriptions, you can correct your DataWindow object definition by doing either of the following:

- Export and edit your column definitions
- Force a recompile of the SQL statement in the Database painter's Interactive SQL (ISQL) view (see the *Users Guide* for instructions)

If your DataWindow object and DBMS result set descriptions do not match and you want to avoid errors, set StaticBind to 0 or No to specify that PocketBuilder should *always* get a result set description before retrieving data into a DataWindow object.

Examples To specify that you want PocketBuilder to get a result set description before retrieving data into a DataWindow object:

- **Database profile** Clear the Static Bind check box on the Transaction tab in the Database Profile Setup dialog box.
- **PocketBuilder application script** To specify this statement in a PocketBuilder application script, type the following:

SQLCA.dbParm = "StaticBind=0"

StripParmNames

Description	Specifies that e driver.	Specifies that explicitly named parameters should not be passed to the ODBC driver.		
Applies to	ODBC	ODBC		
Syntax	StripParmName	StripParmNames = <i>'value'</i>		
	Parameter	Description		
	value	Specifies that explicitly named parameters should not be passed to the ODBC driver. Values are:		
		• Yes Remove all parameter names from the generated call escape syntax.		
		• No (Default) Keep parameter names that are explicitly specified and include them in the generated call escape syntax.		
Default value	StripParmNam	es = 'No'		

Usage	By default, PocketBuilder retains parameter names if they are explicitly specified in the execution of a stored procedure. As a result, syntax such as the following might be generated and sent to the ODBC driver:		
	{call proc(a=?,b=?)}		
	Some database vendors do not allow parameter names to be specified in the generated call escape syntax. To prevent the passing of explicitly named parameters to the ODBC driver, set StripParmNames to Yes. This means that the parameters are passed in the order specified.		
Examples	To strip explicitly stated parameter names from a stored procedure:		
	• Database profile Select the Strip Parameter Names check box on the Syntax tab in the Database Profile Setup dialog box.		
	• PocketBuilder application script Type the following in a PocketBuilder application script:		
	SQLCA.dbParm = "StripParmNames = 'Yes'"		
TableCriteria			
Description	Lets you specify search conditions to limit the list of tables and views that displays in the Installed Database Interfaces Tables list in PocketBuilder. Setting this parameter can be useful if you are working with a very large database in the PocketBuilder development environment.		
	When to specify TableCriteria You must specify the TableCriteria DBParm parameter <i>before</i> connecting to the database in PocketBuilder. The TableCriteria DBParm parameter has no effect in a PocketBuilder application script.		
Applies to	ODBC		
Syntax	You specify the TableCriteria search conditions on the System tab in the Database Profile Setup dialog box.		
Default value	None. If you do not specify any values, the TableCriteria parameter is not used.		

Usage To specify the TableCriteria search conditions, enter information in the following boxes:

Field	Description	
Table Name	Specifies the names of tables to display in the current database. You can use wildcard characters.	
Table Owner	Displays only those tables belonging to the specified table owner. You can use wildcard characters.	
	If you omit this value, PocketBuilder displays all tables matching the table name that you have permission to access.	
Include Tables	Specifies that tables should be displayed.	
Include Views	Specifies that views should be displayed.	
Include System Tables	Specifies that system tables should be displayed.	
Include Aliases	Specifies that alias tables should be displayed.	
Include Synonyms	Specifies that synonym tables should be displayed.	

Examples Type QADB% in the Table Name box and DWMC31 in the Table Owner box on the System tab in the Database Profile Setup dialog box to set the Table Criteria property to:

TableCriteria='QADB%,DWMC31'

Time

Description	When you update data in the DataWindow painter, PocketBuilder builds a SQL UPDATE statement in the background. The Time DBParm parameter determines how PocketBuilder specifies a time datatype when it builds the SQL UPDATE statement.	
Applies to	ODBC	
Syntax	The Database Profile Setup dialog box inserts special characters (quotes and backslashes) where needed, so you can specify just the time format.	
	In a PocketBuilder application script, you must use the following syntax. PocketBuilder parses the backslash followed by two single quotes (\") as a single quote when it builds the SQL UPDATE statement:	
	Time = ' \" <i>time_format</i> \" '	

	Parameter	Description	
	. /	Type a single quote, followed by one space, followed by a backslash, followed by two single quotes. There is no space between the two single quotes and the beginning of the time format.	
	time_format	The time format you want PocketBuilder to use when it builds a SQL UPDATE statement to update a data source in the DataWindow painter.	
		For more on display formats, see the Users Guide.	
	/" '	Type a backslash, followed by two single quotes, followed by one space, followed by a single quote. There is no space between the end of the time format and the backslash.	
Default value	If no value is specified for the Time DBParm parameter, PocketBuilder looks for a time format in the section for your ODBC driver in the <i>pkodb25</i> initialization file. If it finds no time format in the <i>pkodb25</i> initialization file, PocketBuilder uses the ODBC time format escape sequence.		
Examples	Assume you are upo to 08:30. This time	dating a table named Workhours by setting the Start column is represented by the following PocketBuilder time format:	
	hh:mm		
	To specify that Poc when it builds the S	ketBuilder should use this format for the time datatype SQL UPDATE statement:	
	• Database prof Syntax tab in t	File Type the following in the Time Format box on the he Database Profile Setup dialog box:	
	hh:mm		
	PocketBuilder PocketBuilder	application script Type the following in a application script:	
	SQLCA.dbParm = "Time = ' \''hh:mm\'' '"		
	<i>What happens</i> PocketBuilder builds the following SQL UPDATE statement to update the table:		
	UPDATE WORKHOURS SET START = '08:30'		
See also	Date DateTime		

Description	Specifies whether PocketBuilder should trim trailing spaces from data values retrieved from the following datatypes: Char, Char for Bit Data, VarChar, and VarChar for Bit Data.	
Applies to	UL9 UltraLite UL10 UltraLite 10	
Syntax	TrimSpaces = va	lue
	Parameter	Description
	value	Specifies whether PocketBuilder should trim trailing spaces from data of type Char, Char for Bit Data, and VarChar for Bit Data. Values are:
		• 0 Do not trim trailing spaces.
		• 1 (Default) Trim trailing spaces.
Default value	TrimSpaces = 1	
Usage	By default, Pocke Char for Bit Data	tBuilder trims spaces from the following datatypes: Char, , VarChar, and VarChar for Bit Data.
	If your DBMS ma Char data without you may receive to update when you updateable colum properties. In emb to determine if the WHERE clause of	akes a distinction between Char data with trailing spaces and trailing spaces when evaluating a WHERE clause expression, the message Row changed between retrieve and ur DataWindow update properties are set to "Key and ns". To prevent this, change your DataWindow update bedded SQL, you can check Sqlca.Sqlnrows after each update e update took place. Avoid using Char data columns in the C an UPDATE or DELETE statement when TrimSpaces=1.
Examples	To specify that Po	ocketBuilder should not trim trailing spaces:
	• Database pro tection the Database	ofile Clear the Trim Spaces check box on the Syntax tab in Profile Setup dialog box.
	Application	Type the following in code:
	SQLCA.I	DBParm = "TrimSpaces=0"

TrimSpaces

CHAPTER 2 Database Preferences

About this chapter	This chapter describes the syntax and use of each connection-related database preference that you can set in PocketBuilder.
Contents	The database preferences are listed in alphabetical order.
AutoCommit	
Description	AutoCommit controls whether PocketBuilder issues SQL statements outside or inside the scope of a transaction.
	When AutoCommit is set to false (the default), PocketBuilder issues SQL statements <i>inside</i> the scope of a transaction. When AutoCommit is set to true, PocketBuilder issues SQL statements <i>outside</i> the scope of a transaction.
	When to specify AutoCommit In the development environment, you must set AutoCommit before connecting to the database using ODBC. AutoCommit takes effect only when the database connection occurs. Changes made to AutoCommit after the connection occurs have no effect on the current connection.
	When you connect to an UltraLite database in the development environment, all processing in painters takes place as if AutoCommit is set to true. The setting in the database profile applies when you run or debug an application.
	<i>In a PocketBuilder application script</i> , you can reset the value of AutoCommit at any time. This lets you override the initial setting if necessary.
In a PocketBuilder application	You can set AutoCommit in a script as a property of the Transaction object. The following syntax assumes you are using the default Transaction object SQLCA, but you can also define your own Transaction object: SQLCA.AutoCommit = value

	Parameter	Description
	value	Specifies whether PocketBuilder issues SQL statements outside or inside the scope of a transaction. Values are:
		• True – PocketBuilder issues SQL statements <i>outside the scope</i> of a transaction. The statements are not part of a logical unit of work (LUW). If a SQL statement is successful, the DBMS updates the database immediately as if a COMMIT statement had been issued.
		• False (Default) – PocketBuilder issues SQL statements <i>inside</i> <i>the scope of a transaction</i> . PocketBuilder issues a BEGIN TRANSACTION statement at the start of the connection and issues another BEGIN TRANSACTION statement after each COMMIT or ROLLBACK statement is issued.
In the development environment	Select or clear t Database Profil	he AutoCommit Mode check box on the Connection tab in the e Setup dialog box, as follows:
	Select the	check box Sets AutoCommit to true for this connection.
	Clear the c connection	Check box (Default) Sets AutoCommit to false for this
Default value	AutoCommit =	false
Usage	<i>Transactions</i> unit of work (LU fail as one logic statements in th statements fail, the integrity and	A transaction is one or more SQL statements that form a logical JW). Within a transaction, all SQL statements must succeed or al entity. Changes are made to the database only if all e transaction succeed and a COMMIT is issued. If one or more you must issue a ROLLBACK to undo the changes. This ensures a security of data in your database.
	When you chan issues a COMM	ge the value of AutoCommit from false to true, PocketBuilder T statement by default.
	Caution When you set A Therefore, use c	autoCommit to true, you cannot roll back database changes. care when changing the setting of AutoCommit.
	Using EXECUT use the EXECUT TRANSACTION other SQL state	<i>TE IMMEDIATE</i> When AutoCommit is set to true, you can TE IMMEDIATE dynamic SQL statement to issue BEGIN, COMMIT TRANSACTION, ROLLBACK TRANSACTION, and ments to control your own transaction processing.

If you use the EXECUTE IMMEDIATE dynamic SQL statement to issue BEGIN TRANSACTION, you must use the EXECUTE IMMEDIATE dynamic SQL statement to issue a corresponding COMMIT TRANSACTION or ROLLBACK TRANSACTION.

For information about using the EXECUTE IMMEDIATE statement, see the *PowerScript Reference*.

Examples To set AutoCommit to true and issue SQL statements outside the scope of a transaction:

- **Development environment** Select the AutoCommit Mode check box on the Connection tab in the Database Profile Setup dialog box.
- **PocketBuilder application script** Type the following in a script:

SQLCA.AutoCommit = true

If you specify AutoCommit Mode in your database profile, the PowerScript syntax displays on the Preview tab in the Database Profile Setup dialog box. You can copy the syntax from the Preview tab into your script.

Connect to Default Profile

Description	Connect to Default Profile controls whether the Database painter establishes a connection to a database using a default profile when the painter is invoked. If Connect to Default Profile is not selected, the Database painter opens without establishing a connection to a database.
In a PocketBuilder application	You <i>cannot</i> set the Connect to Default Profile database preference in a PocketBuilder application script.
In the development environment	In the Database painter, select or clear the Connect to Default Profile check box in the Database Preferences dialog box as follows:
	• Select the check box (Default) The next time you invoke the Database painter, it automatically connects to the default database profile.
	• Clear the check box The next time you invoke the Database painter, it does <i>not</i> automatically connect to the default database profile.
Default value	The Connect to Default Profile check box in the Database Preferences dialog box is selected by default.

Usage

Connect to Default Profile allows you to open the Database painter *without* establishing a connection to a database. Consequently, you can perform all database-related tasks, including defining a database profile and connecting to a database, in the Database painter. However, you might want to continue to define profiles and/or connect to a database using the Database Profile since opening the Database painter uses more system resources.

Keep Connection Open

Description	By default, PocketBuilder opens a database connection the first time you open a painter requiring a connection, and it maintains the connection until you exit.
	When you connect to a database in the PocketBuilder development environment without using a database profile, you can set the Keep Connection Open database preference to specify when PocketBuilder should close the database connection. The setting of Keep Connection Open has no effect when you use a database profile to connect in PocketBuilder.
In a PocketBuilder application	You <i>cannot</i> set the Keep Connection Open database preference in a PocketBuilder application script.
In the development environment	In the Database painter, select or clear the Keep Connection Open check box in the Database Preferences dialog box as follows:
	• Select the check box (Default) Stays connected to the database throughout your PocketBuilder session and closes the connection when you exit.
	• Clear the check box Opens the database connection when a painter requires it and closes the connection when you close a painter or finish compiling a script.
Default value	The Keep Connection Open check box in the Database Preferences dialog box is selected by default.
Usage	<i>Requirements for using Keep Connection Open</i> To use the Keep Connection Open database preference, <i>both</i> of the following must be true:
	• Working in PocketBuilder development environment You must be working in the PocketBuilder development environment.
	• Using default connection information PocketBuilder must use the most-recently used connection information in the Windows registry to connect to the database. Keep Connection Open has no effect when you select a database profile to connect to the database.

What happens If you meet both of these requirements, clearing the Keep Connection Open check box opens a database connection only when you are working in a painter that requires a connection; it closes the connection at other times. This can save you money if you are accessing a database that charges for connect time.

Lock

Description

The Lock preference sets the isolation level to use when connecting to the database.

ODBC only

For UltraLite, only one application can connect to the database at a time. However, a single application can have up to four separate connections to the same database, and each connection can have a separate transaction running. UltraLite does not provide alternative locking behaviors and the lock value is set to Read Uncommitted in PocketBuilder.

In multiuser databases, transactions initiated by different users can overlap. If these transactions access common data in the database, they can overwrite each other or collide.

To prevent concurrent transactions from interfering with each other and compromising the integrity of your database, certain DBMSs allow you to set the isolation level when you connect to the database. Isolation levels are defined by your DBMS and specify the degree to which operations in one transaction are visible to operations in a concurrent transaction. Isolation levels determine how your DBMS isolates or locks data from other processes while it is being accessed.

PocketBuilder uses the Lock preference to allow you to set various database lock options. Each lock value corresponds to an isolation level defined by your DBMS.

When to specify the Lock value

You must set the Lock value *before* you connect to the database in the PocketBuilder development environment or in a PocketBuilder application. The Lock value takes effect only when the database connection occurs. Changes to the Lock value after the connection occurs have no effect on the current connection.

In a PocketBuilder application	You can set the Lock The following syntax SQLCA, but you can	value in a script as a property of the Transaction object. assumes you are using the default Transaction object, also use a user-defined Transaction object:	
	SQLCA.Lock = "	value"	
	where <i>value</i> is the loc	k value you want to set.	
Lock values	The following table lists the lock values and corresponding isolation levels for ODBC. You set the lock value in a PocketBuilder application script, and the isolation level in a database profile.		
	Lock values	Isolation levels	
	RU	Read Uncommitted	
	RC	Read Committed	
	RR	Repeatable Read	
	TS	Serializable Transactions	
	TV	Transaction Versioning	
	For information about chapter on using trans <i>SQL Usage</i> book in the second sec	t how SQL Anywhere handles isolation levels, see the sactions and isolation levels in the <i>SQL Anywhere Server</i> ne SQL Anywhere documentation.	
In the development environment	Select the isolation le the Connection tab in	vel you want from the Isolation Level drop-down list on the Database Profile Setup dialog box.	
Default value	The default lock valu information, see your	e depends on how your database is configured. For DBMS documentation.	
Usage	The TV (Transaction databases.	Versioning) setting does not apply to SQL Anywhere	
Examples	Example 1 To set the Anywhere database:	e Lock value to RC (Read Committed) for an SQL	
	• Development en Level drop-down	vironment Select Read Committed from the Isolation list in the Database Profile Setup dialog box.	
	• PocketBuilder a	pplication script Type the following in a script:	
	SQLCA.Loc	<pre>< = "RC"</pre>	
	If you specify Isolation displays on the Previet copy the syntax from	n Level in your database profile, the PowerScript syntax ew tab in the Database Profile Setup dialog box. You can the Preview tab into your script.	

Read Only		
Description	Read Only specifies whether PocketBuilder should update the extended attribute system tables and any other tables in your database. The extended attribute system tables (also known as the extended catalog) consist of five tables that contain default extended attribute information for your database.	
	The Read Only setting determines whether you can modify (update) the tables in your database. By default, the Read Only check box is cleared in the Database Preferences dialog box. This means that PocketBuilder updates the extended attribute system tables and other tables in your database when you make changes.	
	No extended attributes in UltraLite UltraLite does not contain system tables or extended attributes.	
	If you select the Read Only check box, PocketBuilder <i>does not update</i> the extended attribute system tables or any other tables in your database. You <i>cannot</i> modify (update) information in the extended attribute system tables or any other database tables from the DataWindow painter when the Read Only check box is selected.	
In a PocketBuilder application	You <i>cannot</i> set the Read Only database preference in a PocketBuilder application script.	
In the development environment	In the PocketBuilder Database painter, select or clear the Read Only check box in the Database Preferences dialog box as follows:	
	• Select the check box PocketBuilder does not update the extended attribute system tables or any other tables in your database. You <i>cannot</i> modify (update) information in the extended attribute system tables or any other database tables from the DataWindow painter when the Read Only check box is selected.	
	• Clear the check box (Default) PocketBuilder updates the extended attribute system tables and any other tables in your database when you modify them.	
Default value	The Read Only check box in the Database Preferences dialog box is cleared by default.	

Usage	If you select the Read Only check box in the Database Preferences dialog box, you cannot modify information in <i>any</i> tables from the DataWindow painter.
	Therefore, you can use only:
	• SELECT and Retrieve statements in the DataWindow and Report painters
	• SELECT statements in embedded SQL
See also	Use Extended Attributes

Shared Database Profiles

Description	Specifies the path name of the PocketBuilder initialization file containing the database profiles you want to share.
	For instructions on sharing database profiles in the PocketBuilder development environment, see "Sharing database profiles" in the <i>Resource Guide</i> .
In a PocketBuilder application	You <i>cannot</i> set the Shared Database Profiles database preference in a PocketBuilder application script.
In the development environment	In the Database painter, supply the path name of the PocketBuilder initialization file containing shared profiles in the Shared Database Profiles box in the Database Preferences dialog box. You can type the path name or click the Browse button to display it.
Default value	The Shared Database Profiles box in the Database Preferences dialog box is blank (unspecified) by default.
Examples	To share database profiles contained in the file <i>I</i> :\ <i>SHARE</i> \ <i>PK.INI</i> , type or browse to the following in the Shared Database Profiles box in the Database Preferences dialog box:
	I:\SHARE\PK.INI

SQL Terminator Character

Description Specifies the SQL statement terminator character used by the Database painter's Interactive SQL (ISQL) view.

	The default terminator character for the ISQL view is a semicolon (;). If a semicolon conflicts with the terminator character used by your DBMS syntax, you can change the painter's terminator character by specifying a different character in the SQL Terminator Character box in the Database Preferences dialog box. A good choice for a terminator character is the backquote or backprime (\) character.
	Changing the terminator character is recommended when you are using the ISQL view to create or execute stored procedures, triggers, and SQL scripts.
In a PocketBuilder application	You <i>cannot</i> set the SQL Terminator Character database preference in a PocketBuilder application script.
In the development environment	In the Database Preferences dialog box in the Database painter, in the SQL Terminator Character box, type the terminator character you want to use.
Default value	The default SQL Terminator Character value in the Database Preferences dialog box is a semicolon (;).
Usage	The following are typical situations that might require you to change the default SQL Terminator Character value:
	• Creating stored procedures and triggers If you are creating stored procedures and triggers in the ISQL view, change the painter's terminator character to one that you do not expect to use in the stored procedure or trigger syntax for your DBMS, such as the backquote (\) character.
	After you finish using the stored procedure, you can change the terminator character back to semicolon (;). If you prefer, you can continue to use the new terminator character as long as it does not conflict with any stored procedure or trigger syntax you plan to use.
	• Executing SQL scripts If you plan to execute any SQL scripts in the ISQL view, make sure the terminator character used in the script agrees with the terminator character currently set in the view.
Examples	To change the SQL statement terminator character in the ISQL view to a backquote (`), type a backquote in the SQL Terminator Character box in the Database Preferences dialog box.

Use Extended Attributes

Description

Controls access to the extended attribute system tables by specifying whether you want PocketBuilder to create these tables. The extended attribute system tables (also known as the extended catalog) consist of five tables that contain default extended attribute information for your database.

	No extended attributes in UltraLite UltraLite does not contain system tables or extended attributes.
	By default, the Use Extended Attributes check box is selected in the Database Preferences dialog box. This setting creates the extended attribute system tables the first time you connect to a database using PocketBuilder.
In a PocketBuilder application	You <i>cannot</i> set the Use Extended Attributes database preference in a PocketBuilder application script.
In the development environment	In the Database painter, select or clear the Use Extended Attributes check box in the Database Preferences dialog box as follows:
	• Select the check box (Default) Creates the extended attribute system tables when you connect to the database for the first time.
	• Clear the check box Does <i>not</i> create the extended attribute system tables if they do not exist. Instead, the DataWindow and Report painters use the appropriate default values for extended attributes (such as headers, labels, and text color). If the extended attribute system tables already exist, PocketBuilder does not use them when you create a new DataWindow object.
Default value	The Use Extended Attributes check box in the Database Preferences dialog box is selected by default.
Usage	If you clear the Use Extended Attributes check box in the Database Preferences dialog box, PocketBuilder <i>does not do</i> any of the following:
	• Create the extended attribute system tables
	• Insert, update, or delete rows in the extended attribute system tables
	• Select information (such as header names) from the extended attribute system tables
	• Execute statements that reference the extended attribute system tables
See also	Read Only

Index

Α

Async DBParm parameter 3 asynchronous operations, enabling 3 AutoCommit database preference 49 AutoCommit Mode check box in Database Profile Setup dialog box 49 AutoCommit Transaction object property 49

В

backquote ('), as SQL terminator character 56
bind variables

and cached SQL statements 26, 40
and default column values 26
disabling default binding 25
using in SQL statements 25

Block DBParm parameter 5
blocking factor, setting for cursors 5

С

caching SOL statements about 40 with bind variables 26, 40 CallEscape DBParm parameter 7 columns default values and bind variables 26 delimiting names 29 enclosing names in double quotes 24 CommitOnDisconnect DBParm parameter 8 concurrency control, optimistic 16 connect strings 13 Connect to Default Profile check box in Database Preferences dialog box 51 Connect to Default Profile database preference 51 ConnectOption DBParm parameter 9 ConnectString DBParm parameter 13

conventions, typographical vii CursorLib DBParm parameter 15 CursorLock DBParm parameter 16 cursors blocking factor 5 keyset-driven, ODBC 17 library, ODBC 15 locking options, ODBC 16 mixed, ODBC 17 scrolling options, ODBC 17 setting with ConnectOption DBParm parameter 9 CursorScroll DBParm parameter 17

D

Data Definition Language (DDL) statements, SQL 50 database interfaces, DBParm parameters 2 Database painter, changing SQL terminator character 56 database preferences AutoCommit 49 Connect to Default Profile 51 Lock 53 Read Only 55 Shared Database Profiles 56 SOL Terminator Character 56 Use Extended Attributes 57 Database Profile Setup dialog box AutoCommit Mode check box 49 Isolation Level box 53 database profiles connect string for ODBC data sources 13 setting Shared Database Profiles database preference 56 databases controlling updates 55 lock values and isolation levels 53 DataWindow objects asynchronous operations 3

Index

getting result set description before retrieval 42 Date DBParm parameter 18 date format 18 DateTime DBParm parameter 20 DateTime format 20 DBA, as SQL Anywhere stored procedure owner 38 DBF (database file name) value, in UltraLite connect strings 13 DBGetTime DBParm parameter 21 DBMS DBParm parameters supported for each 2 lock values and isolation levels 53 DBParm parameters and supported database interfaces 2 Async 3 Block 5 CallEscape 7 CommitOnDisconnect 8 ConnectOption 9 ConnectString 13 CursorLib 15 CursorLock 16 CursorScroll 17 Date 18 20 DateTime DBGetTime 21 DBTextLimit 22 DecimalSeparator 23 DelimitIdentifier 24.29 DisableBind 25, 40 FormatArgsAsExp 28 IdentifierQuoteCharacter 29 LoginTimeOut 30 MsgTerse 31 32 NumericFormat 34 OJSyntax PacketSize 35 PBCatalogOwner 36 PBUseProcOwner 37 RPCRebind 39 SQLCache 40 StaticBind 42 StripParmNames 43 TableCriteria 44 Time 45 TrimSpaces 47

DBTextLimit DBParm parameter 22 DDL statements, SQL 50 decimal separators setting with DecimalSeparator DBParm 23 setting with NumericFormat DBParm 33 DecimalSeparator DBParm parameter 23 DelimitIdentifier DBParm parameter 24.29 describeless retrieval 42 DisableBind DBParm parameter 25, 40 DSN (data source name) value, in ODBC connect strings 13

Ε

error messages, displaying terse 31 extended attribute system tables controlling creation with Use Extended Attributes database preference 57 table owner, setting 36 extended attribute system tables, controlling updates with Read Only database preference 55

F

FormatArgsAsExp DBParm parameter 28

I

IdentifierQuoteCharacter DBParm parameter 29 indexes delimiting names 29 enclosing names in double quotes 24 Isolation Level box in Database Profile Setup dialog box 53 isolation levels and lock values 53

Κ

keyset-driven cursors 17

L

Lock database preference 53 Lock Transaction object property 53 lock values and isolation levels 53 locking and DBMS isolation levels 53 cursors, ODBC 16 logical unit of work (LUW) 49 LoginTimeOut DBParm parameter 30 LUW 49

Μ

mixed cursors, ODBC 17 MsgTerse DBParm parameter 31

Ν

NumericFormat DBParm parameter 32

0

ODBC connect strings 13 ODBC data sources caching SQL statements 40 connect string, setting 13 cursor library, setting 15 cursor locking options, setting 16 cursor scrolling options, setting 17 data source name (DSN) in ConnectString DBParm 13 date format 18 DateTime format 20 DBParm parameters 2 error messages, displaying terse 31 lock values and isolation levels 54 network packet size, setting 35 RPCs, rebinding 39 time format 45 ODBC Driver Manager Trace setting with ConnectOption DBParm 9 ODBC drivers caching SQL statements 40

connect string, setting 13 cursor library, setting 15 cursor locking options, setting 16 cursor scrolling options, setting 17 DBParm parameters - 2 error messages, displaying terse 31 lock values and isolation levels 54 login timeout, setting 30 network packet size, setting 35 numeric format, setting 32 RPCs, rebinding 39 ODBC interface connect string, setting 13 ConnectOption DBParm, using 9 cursor blocking factor, setting 5 cursor library, setting 15 cursor locking options, setting 16 cursor scrolling options, setting 17 date format 18 DateTime format 20 DBParm parameters 2 23 decimal separator, setting error messages, displaying terse 31 lock values and isolation levels 54 login timeout, setting 30 network packet size, setting 35 numeric format, setting 32 RPCs, rebinding 39 Select Tables list, modifying 44 stripping parameter names 43 time format 45 OJSyntax DBParm parameter 34 optimistic concurrency control 16

Ρ

Packet Size DBParm parameter 35 packet size, network, setting for ODBC data sources 35 parenthesis (right), as SQL terminator character 56 passwords in ConnectString DBParm 13 PBCatalogOwner DBParm parameter 36 PBUseProcOwner DBParm parameter 37 PWD (password) value, in connect string 13

R

Read Only check box in Database Preferences dialog box 55 Read Only database preference 55 result sets, getting description before retrieval 42 retrieval arguments, as scientific notation 28 retrievel, describeless 42 RetrieveRow event, coding for asynchronous operations 3 RPCRebind DBParm parameter 39 RPCs, rebinding for ODBC data sources 39

S

scientific notation for retrieval arguments 28 scrolling options, cursor 17 security, setting with ConnectOption DBParm 9 Select Tables list, modifying 44 semicolons, as SQL statement terminators 56 Shared Database Profiles box in Database Preferences dialog box 56 Shared Database Profiles database preference 56 shared database profiles, setting up 56 SQL Anywhere DBA, as stored procedure owner 38 DBParm parameters 2 stored procedures, qualifying with owner name 38 SQL Data Definition Language (DDL) statements 50 SQL statements bind variables 25 caching 26.40 issuing inside or outside transactions 49 table and column delimiters 29 SOL terminator character changing in Database painter 56 database preference 56 SQLCache DBParm parameter 40 SQLSTATE error prefix, suppressing display 31 StaticBind DBParm parameter 42 stored procedures for ODBC, qualifying with owner name 37 StripParmNames DBParm parameter 43

Т

TableCriteria DBParm parameter 44 tables controlling updates 55 delimiting names - 29 enclosing names in double quotes 24 Select Tables list, modifying 44 Time DBParm parameter 45 time format 45 transactions issuing SQL statements inside or outside 49 locking and isolation levels 53 TrimSpaces DBParm parameter 47 typographical conventions vii

U

UID (user ID) value, in connect string 13 UltraLite interface connect string, setting 13 database file name (DBF) in ConnectString DBParm 13 DBParm parameters 2 enclosing names in double quotes 24 lock values and isolation levels 54 scientific notation for retrieval arguments 28 setting VarChar column length 22 StaticBind set to 0 42 trimming spaces from datatypes 47 updating databases, controlling 55 Use Extended Attributes check box in Database Preferences dialog box 57 Use Extended Attributes database preference 57 user IDs, in ConnectString DBParm