# SQL\*Plus

**Getting Started** 

Release 8.1.7 for Windows

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SQL\*Plus Getting Started, Release 8.1.7 for Windows

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#### Part No. A82954-01

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# Preface

*SQL\*Plus Getting Started for Windows* provides information about the SQL\*Plus product *specific* to Microsoft Windows 2000, Windows NT 4.0, Windows 98, and Windows 95 operating systems.

**Notes:** In the remainder of this guide, SQL\*Plus for Windows, will be referred to as SQL\*Plus.

Specific topics discussed in this preface are:

Prerequisites

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- Intended Audience
- How This Guide Is Organized
- Related Documents
- Obtaining Online Help
- Documentation and Code Conventions Explained

# **Prerequisites**

This guide assumes that you are familiar with the following:

- SQL\*Plus commands and general features. You should refer to the generic SQL\*Plus documentation set *before* using this guide. See "Related Documents" on page ix.
- Commands for deleting and copying files and the concepts of the search path, subdirectories, and path names.
- Fundamentals of the Microsoft Windows 2000, Windows NT or Windows 95/98 operating systems.

## **Intended Audience**

This guide is for all users who want to use SQL\*Plus in the Windows 2000, Windows NT or Windows 95/98 operating environments.

# How This Guide Is Organized

This guide is organized as follows:

Chapter 1, "Introducing SQL\*Plus"

Chapter 2, "Installing SQL\*Plus Help and Demonstration Tables"

Chapter 3, "Using SQL\*Plus"

Chapter 4, "Operating System-Specific References"

Appendix A, "Customizing Operating System Parameters"

# **Related Documents**

*SQL\*Plus Getting Started for Windows* provides information *specific* to SQL\*Plus on Windows-based platforms only. For information about SQL\*Plus cross-platform support, features, and commands, refer to the generic SQL\*Plus documentation set on the product CD-ROM. In addition to the complete documentation for the Oracle Enterprise Edition for Windows product, the following SQL\*Plus documentation is available for online viewing:

- *SQL\*Plus 8.1.7 Release Bulletin* (for late-breaking information not included in the SQL\*Plus documentation)
- SQL\*Plus User's Guide and Reference
- SQL\*Plus Quick Reference
- SQL\*Plus Accessibility Guide for Windows

**Note:** Before installing SQL\*Plus, refer to the generic SQL\*Plus documentation on the CD-ROM, and to the Release Notes and Readme files on the CD-ROM for late-breaking information.

# **Obtaining Online Help**

Online help for using SQL\*Plus is available from the SQL\*Plus command line during a session. The SQL\*Plus help tables must be created and populated by the database administrator first. See "Installing SQL\*Plus Online Help" in Chapter 2 for information about installing SQL\*Plus online help.

# **Documentation and Code Conventions Explained**

Convention	Example	Meaning
All uppercase plain	ALTER DATABASE	Indicates command names, SQL reserved words, and keywords. All uppercase plain is also used for directory names and file names.
Italic	Italic is used to indicate a variable: <i>filename</i>	Indicates a value that you must provide. For example, if a command asks you to type <i>filename</i> , you must type the actual name of the file.
	Italic is used for emphasis: This section describes new SQL*Plus features <i>specific</i> to Windows 2000/NT/95/98.	Italic is also used for emphasis in the text and to indicate the titles of other guides.
Oracle database		The database component of Oracle8 <i>i</i> .
C:\>	This example refers to the default for the first Oracle home in an Optimal Flexible Architecture (OFA)-compliant database. C:\>ORACLE\ORA81	Represents the Windows command prompt of the current hard disk drive. Your prompt can differ and can, at times, reflect the subdirectory in which you are working. Referred to as the <i>Windows command prompt</i> in this guide.
Backslash (\) before a directory name	\ORADATA	Indicates that the directory is a subdirectory of the root directory.

The following conventions are used in this guide.

Convention	Example	Meaning
ORACLE_HOME and ORACLE_BASE	Go to the ORACLE_HOME\ADMIN directory	In previous releases when you installed SQL*Plus, all subdirectories were located under a top level <i>ORACLE_HOME</i> directory, that by default was: C:\ORANT for Windows NT
		<ul> <li>C:\ORAWIN95 for Windows 95</li> </ul>
		<ul> <li>C:\ORAWIN98 for Windows 98</li> </ul>
		or whatever you may have called your Oracle home.
		With this Optimal Flexible Architecture (OFA)-compliant release, all subdirectories are no longer under a top level ORACLE_HOME directory. There is now a new top level directory called ORACLE_BASE, which by default is C:\ORACLE.
		For more information about multiple Oracle homes and Optimal Flexible Architecture (OFA), see the <i>Oracle8i</i> <i>Administrator's Guide for Windows</i> <i>NT</i> .
HOME_NAME	Oracle <i>HOME NAME</i> TNSListener	Represents the Oracle home name. The home name can be up to sixteen alphanumeric characters. The only special character allowed in a home name is the underscore.

Convention	Example	Meaning
Symbols	period .	Symbols other than brackets and
	comma ,	vertical bars must be entered in commands exactly as shown.
	hyphen -	communus exactly us shown.
	semicolon ;	
	colon :	
	equal sign =	
	backslash $\setminus$	
	single quote '	
	double quote "	
	parentheses ()	
Key+number	Alt+128	Hold down the Alt key while entering 128. This is typically used to enter decimal number equivalents for extended ASCII characters at the SQL*Plus command prompt.

# 1

# Introducing SQL\*Plus

This chapter provides introductory information to help you get started with SQL\*Plus.

Specific topics discussed are:

- Overview
- Basic Concepts

# **Overview**

You can use the SQL\*Plus tool with SQL (Structured Query Language) and its procedural language extension, PL/SQL. These database languages allow you to store and retrieve data in Oracle databases. PL/SQL allows you to link several SQL commands through procedural logic.

SQL\*Plus enables you to manipulate SQL commands and PL/SQL blocks, and to perform many additional tasks. With SQL\*Plus, you can:

- Enter, edit, store, retrieve, and run SQL commands and PL/SQL blocks.
- Format, perform calculations on, store, and print query results in the form of reports.
- List column definitions for any table.
- Access and copy data between databases.
- Send messages to and accept responses from an end user.
- Perform database administration.

SQL\*Plus provides both a command line interface and a graphical user interface (GUI). See Chapter 3, "Using SQL\*Plus" for more information.

**Note:** Although Server Manager is shipped with Release 8.1.7, Oracle Corporation recommends that you migrate to SQL\*Plus because Server Manager will not be shipped with future releases.

# **Basic Concepts**

The following definitions explain concepts central to SQL\*Plus:

Concept	Definition
command	An instruction you give to an operating system, or software such as SQL*Plus or Oracle, to perform a particular task.
SQL command	A command to execute SQL statements.
SQL*Plus command	A command to execute SQL*Plus statements.
block	In PL/SQL, a group of SQL and PL/SQL commands related to each other through procedural logic.
table	The basic unit of storage in Oracle.

Concept	Definition
query	A read only SQL SELECT command that retrieves information from one or more tables.
query results	The data retrieved by a query.
report	Query results formatted by you through SQL*Plus commands.
SQL buffer	A buffer which stores the last SQL command or PL/SQL block that you entered in SQL*Plus.
screen buffer	A buffer to store the data in the SQL*Plus application window.

For definitions of other concepts that are relevant to SQL\*Plus, see the glossary in the *SQL\*Plus User's Guide and Reference*.

2

# Installing SQL\*Plus Help and Demonstration Tables

This chapter provides information to help you install SQL\*Plus components. Specific topics discussed are:

- Installing SQL\*Plus
- Installing SQL\*Plus Online Help
- Accessing Demonstration Tables

# Installing SQL\*Plus

The CD-ROM insert that accompanies your product CD-ROM includes the following information about SQL\*Plus:

- System requirements
- Installation instructions

**Note:** Before installing SQL\*Plus, refer to the generic SQL\*Plus documentation on the CD-ROM, and to the Release Notes and Readme files on the CD-ROM for late-breaking information.

# Installing SQL\*Plus Online Help

Online help is available from the command line of either the graphical user interface or the command line interface while you are using SQL\*Plus. The database administrator creates the SQL\*Plus help tables and populates them with SQL\*Plus help data.

### Prerequisites

Before you can install SQL\*Plus help, ensure that:

- SQL\*Plus is installed, otherwise, you cannot create and load the help tables.
- The default tablespace for the SYSTEM user is large enough to accommodate the help system. You must have at least 128K of free space.
- The SQL\*Plus help script files are available in

 $ORACLE_HOME \ SQLPLUS ADMIN \ ELP \$ 

The help script files are:

- HELPBLD.SQL to drop and create new help tables.
- HELPUS.SQL to populate the help tables with the help data.
- HELPDROP.SQL to drop existing SQL\*Plus help tables.
- The Windows command file, HELPINS.BAT, is available in %ORACLE\_HOME%\BIN\

### Installing SQL\*Plus Help

To install SQL\*Plus help:

Select the "Enable InterMedia demos and add SQL\*Plus help tables" from the Database Configuration Assistant during installation.

or

**1.** Set an environment variable, SYSTEM\_PASS, to hold the SYSTEM user login with:

SET SYSTEM\_PASS=SYSTEM/PASSWORD

where *PASSWORD* is the password you have defined for the SYSTEM user. The default SYSTEM user password is MANAGER.

The HELPINS utility reads this login from SYSTEM\_PASS to run successfully.

2. Run the batch file, HELPINS.BAT, from a command line prompt with:

C: > %ORACLE\_HOME% \BIN \HELPINS US

or

1. Run SQL\*Plus as the SYSTEM user with:

C:\> SQLPLUS SYSTEM/PASSWORD

where PASSWORD is the password you have defined for the SYSTEM user.

2. Run the SQL script, HELPBLD.SQL, from SQL\*Plus with:

SQL> @%ORACLE\_HOME%/SQLPLUS/ADMIN/HELP/HELPBLD.SQL

## Accessing SQL\*Plus Help

To access SQL\*Plus help, enter one of the following commands in SQL\*Plus:

SQL> HELP

or

SQL> HELP INDEX

or

SQL> HELP TOPICS

If you know the topic for which you want help, enter the following:

```
SQL> HELP topic
```

where topic is a SQL\*Plus help topic. For example, enter

SQL> HELP COLUMN

for help on the COLUMN command.

If you get a response that help is unavailable, check that you have correctly installed SQL\*Plus help in the SYSTEM schema.

For more information about the HELP command, see Chapter 8, "Command Reference" in the *SQL\*Plus User's Guide and Reference.* 

## Accessing Demonstration Tables

To load the demonstration tables, start SQL\*Plus with the user account that allows you to complete the exercises. The *SQL\*Plus User's Guide and Reference* refers to the user name SCOTT with the password TIGER, but you can use any account with the same privileges.

Enter the following command at the SQL\*Plus prompt:

SQL> @%ORACLE\_HOME%\SQLPLUS\DEMO\DEMOBLD.SQL

When you finish working through the examples, you can remove the demonstration tables from the database by entering the following command:

SQL> @%ORACLE\_HOME%\SQLPLUS\DEMO\DEMODROP.SQL

# **Using SQL\*Plus**

This chapter explains how to start and use SQL\*Plus from both the command line interface and the graphical user interface, and describes the graphical user interface menu options.

Specific topics discussed are:

- Using the Command Line Interface
- Using the Graphical User Interface
- Exiting SQL\*Plus

# Using the Command Line Interface

The SQL\*Plus command line interface is standard on all operating systems.

If you are connecting to a remote Oracle database, make sure your Net8/networking software is installed and working properly. For more information, see the *Net8 Administrator's Guide* and the Appendix, "Net8 Configuration", in the *Oracle8i Administrator's Guide for Windows NT*.

#### To start the SQL\*Plus command line interface:

1. Select **Command Prompt** from **Programs** in the **Start** menu. A Command Prompt window appears.

Command Prompt	_ 🗆 ×
Microsoft(R) Windows NT(TM) (C) Copyright 1985–1996 Microsoft Corp.	
C:\>	

2. Start SQL\*Plus by entering

C:\> SQLPLUS

You can optionally include your login username and password separated by a slash (/), and a remote database name to connect to, for example:

C:\> SQLPLUS username/password@connect\_identifier

Otherwise you will be prompted to enter your username and password.

#### Interpreting Arguments in Windows

The rules for interpreting arguments in Windows command files are:

- Arguments are delimited by white space.
- A string surrounded by double quotation marks, for example, "this string", is interpreted as a single argument.

• A double quotation mark preceded by a backslash is interpreted as a literal double quotation mark.

For more information about SQL\*Plus command line arguments, refer to the *SQL\*Plus User's Guide and Reference.* 

### Changing the Command Line Font and Font Size

You can use the Windows Command Prompt Properties dialog to set the font and font size used in the SQL\*Plus command line interface.

#### To Change the Command Line Interface Font and Font Size

- 1. Right click in the command line interface title bar.
- 2. Click **Properties**. The **Window Preview** box displays the current window's relative size on your monitor based on your font and font size selections. The **Selected Font:** box displays a sample of the current font.
- 3. Click the Font tab.
- 4. Select the font size to use from the **Size** box. Raster font sizes are shown as width by height in pixels. TrueType font sizes are shown as height in pixels.
- 5. Select the font to use from the Font box.
- 6. Select the **Bold Fonts** check box to use a bold version of the font.

For more information about changing Windows Command Prompt properties, see Windows **Help** or click **Help** in the Command Prompt Properties dialog. For information about changing font face and size in the Windows GUI, see "Changing the GUI Font and Font Size" later in this chapter.

#### Using a Special Character

To check if a font contains a particular character, for example, the Euro sign, enter the character's decimal number equivalent in the SQL\*Plus command line interface. For example, the decimal number equivalent for the Euro sign is 128, so you would enter **Alt+0128** to display it. If it appears correctly, the chosen font contains the Euro sign, otherwise you need to try another font.

You can use the Windows Character Map utility to view the characters available in a font. Character Map also shows the decimal number equivalent for extended ASCII characters. You access the Character Map utility by selecting **Start**, **Programs**, **Accessories** and then clicking **Character Map**.

# Using the Graphical User Interface

While the command line interface is a standard feature of SQL\*Plus on all operating system platforms, the graphical user interface is a feature of SQL\*Plus for Windows.

If you are connecting to a remote Oracle database, make sure your Net8/networking software is installed and working properly. For more information, see the *Net8 Administrator's Guide* and the Appendix, "Net8 Configuration", in the *Oracle8i Administrator's Guide for Windows NT*.

#### To start the SQL\*Plus graphical user interface:

1. Select **Programs** in the **Start** menu. Then select **Oracle** - **ORACLE\_HOME**, then **Application Development**, and click **SQL Plus**.

The SQL\*Plus window appears displaying the *Log On* dialog.

Log On	
<u>U</u> ser Name:	
<u>P</u> assword:	
<u>H</u> ost String:	
ОК	Cancel

Enter a valid user name and password. If you are connecting to a remote Oracle database, enter the Net8 *connect\_identifier* in the Host String field. See the *Net8 Administrator's Guide* for more information about configuring and using Net8 *connect\_identifiers*.

2. Click OK.

or

- 1. Select **Command Prompt** in the **Start** menu. A Command Prompt window appears.
- 2. Enter

C:\> SQLPLUSW

The SQL\*Plus graphical user interface starts. You can optionally include your login username and password separated by a slash (/), and a remote database name to connect to, for example:

C:\> SQLPLUSW username/password@connect\_identifier

Otherwise enter the required information in the login dialog as described above. The Oracle SQL\*Plus application window appears.

		- 🗆 🗵
	Elle Edit Search Options Help	
	SQL*Plus: Release 8.1.7.0.0 - Production on Thu Jun 1 14:59:32 2000	É
	(c) Copyright 1999 Oracle Corporation. All rights reserved.	
	Connected to:	
	Oracle8i Enterprise Edition Release 8.1.6.0.0 - Production	
SQL*Plus	With the Partitioning option JServer Release 8.1.6.0.0 - Production	
command	-sqL>	
prompt		
F		
		- <b>-</b>

### Using the SQL\*Plus Application Window

SQL\*Plus displays the SQL command prompt in the application window.

To enter SQL and SQL\*Plus commands, type each command at the SQL\*Plus prompt and press Enter.

### Using the Mouse Buttons to Copy Text to the Command Prompt

You can use the mouse buttons to copy text previously entered in SQL\*Plus to the SQL\*Plus prompt.

To copy text, select the text by clicking and dragging with the left mouse button. While still holding down the left mouse button, click the right mouse button. SQL\*Plus copies the selected text to the SQL\*Plus prompt.

## Using the Command Keys

The following command keys have special functions in SQL\*Plus:

Кеу	Function
Home	Top of screen buffer
End	Bottom of screen buffer
Page Up	Previous screen page
Page Down	Next screen page
Ctrl+Page Up	Show page on left of current screen page
Ctrl+Page Down	Show page on right of current screen page
Alt+F3	Find
F3	Find next
Ctrl+C	Cancels an operation running in SQL*Plus.
Ctrl+C	Copies text - when no operations are running in SQL*Plus.
Ctrl+V	Paste text
Shift+Del	Clear the screen and the screen buffer

## Using the SQL\*Plus Menus

This section describes menus in the SQL\*Plus graphical user interface (GUI). Bracketed entries show keyboard shortcuts to that File Menu command. The rightmost column shows the equivalent command line interface command where applicable.

#### File Menu

The File menu has the following options:

Option	Description of File Menu Option	Command Line
Open	The <b>Open</b> option retrieves a previously stored command file.	GET filename
	If you supply no file extension, SQL*Plus looks for command files with the .SQL extension.	
Save	The <b>Save</b> option has three alternatives: <b>Save Create</b> , <b>Save Replace</b> , and <b>Save Append</b> .	SAVE

Option	Description of File Menu Option	Command Line
	······································	SAVE filename CREATE
	<ul> <li>Save Replace replaces the contents of an existing file with the contents of the SQL*Plus buffer. SQL*Plus creates the file if it does not exist.</li> </ul>	SAVE <i>filename</i> REPLACE
		SAVE <i>filename</i> APPEND
	After you save a command file, you can:	
	<ul> <li>Retrieve the file using the <b>Open</b> option on the <b>File</b> menu.</li> </ul>	
	<ul> <li>Edit the file using the Editor option on the Edit menu.</li> </ul>	
	<ul> <li>Run the file using the START or RUN commands from the SQL*Plus command prompt.</li> </ul>	
Save As	The <b>Save As</b> option saves the contents of the SQL*Plus buffer in a command file.	SAVE filename
	By default, SQL*Plus assigns the .SQL extension to command files. You can specify a different extension in the <b>File name</b> text box.	
Spool	The <b>Spool</b> option has two alternatives: <b>Spool File</b> and <b>Spool Off</b> . SQL*Plus for Windows does not support the SPOOL OUT clause.	
	<ul> <li>Spool File stores query results in a file. By default, SQL*Plus assigns the .LST extension to spool files. You can specify a different extension in the File name text box. You can edit the results with the Editor option on the Edit menu, and print the file from a Windows text editor.</li> </ul>	SPOOL filename
	Spool Off turns off spooling.	SPOOL OFF
Run	The <b>Run</b> option lists and executes the SQL command or PL/SQL block currently stored in the SQL buffer.	RUN
Cancel	The <b>Cancel</b> option cancels an in-progress operation.	Ctrl-C
(CTRL+C)	The <b>Cancel</b> keyboard shortcut is only available when a SQL*Plus operation is running in the SQL*Plus session. When no SQL*Plus operation is running, CTRL+C copies selected text.	
Exit	The <b>Exit</b> option commits all pending database changes and closes the SQL*Plus application window.	EXIT

### Edit Menu

The **Edit** menu has the following options:

Option	Description of Edit Menu Option	Command Line
Copy (CTRL+C)	The <b>Copy</b> option copies selected text to the Clipboard.	not applicable
	After you copy text to the Clipboard, you can paste the text into other Windows applications, such as Microsoft Excel and Microsoft Word.	
	The <b>Copy</b> keyboard shortcut is only available when no SQL*Plus operations are running in the SQL*Plus session. When a SQL*Plus operation is running, CTRL+C cancels the running operation.	
Paste (CTRL+V)	The <b>Paste</b> option pastes the contents of the Clipboard to the SQL*Plus command line.	not applicable
	<b>Note:</b> A maximum of 3625 characters can be pasted from the Clipboard to the SQL*Plus command line during a single paste operation.	
Clear (SHIFT+DEL)	The <b>Clear</b> option clears the screen buffer and the screen of the SQL*Plus application window.	CLEAR SCREEN
Editor	The Editor option has two alternatives: Invoke Editor and Define Editor.	
	<ul> <li>Invoke Editor loads the contents of the SQL*Plus buffer into an editor. By default, SQL*Plus saves the file to AFIEDT.BUF. You can specify a different file name in the editor.</li> </ul>	EDIT
	• <b>Define Editor</b> defines the editor that is invoked.	DEFINE_EDITOR = editor name

### Search Menu

The **Search** menu has the following options:

Option	Description of Search Menu Option	Command Line
Find (ALT+F3)	The <b>Find</b> option searches for a character, a word, or a group of characters or words in the SQL*Plus application window. Find begins the search at the top of the displayed screen.	not applicable
	<b>Note:</b> When Find reaches the end of the displayed screen, it does not wrap and continue searching from the top of the screen buffer.	
Find Next (F3)	The <b>Find Next</b> option finds the next occurrence of the search text.	not applicable

## **Options Menu**

The **Options** menu has the following options:

Option	Description of Options Menu Option	Command Line
Environment	The <b>Environment</b> option allows you to set system variables to alter the SQL*Plus environment for your current session. This dialog has three areas: <b>Set Options, Value,</b> and <b>Screen Buffer</b> .	
	<b>Note:</b> See "Setting Options and Values Using the Environment Dialog" on page 3-10 for examples of how these controls interact.	
	Set Options	SET variable value
	This area has a list of variables you can select to establish aspects of the SQL*Plus environment for your current session, such as:	
	<ul> <li>Setting the display width for NUMBER data.</li> </ul>	
	<ul> <li>Setting the display width for LONG data.</li> </ul>	
	<ul> <li>Enabling or disabling the printing of column headings.</li> </ul>	
	<ul> <li>Setting the number of lines per page.</li> </ul>	
	See the "Command Reference" chapter in the <i>SQL*Plus User's Guide and Reference</i> for descriptions of each system variable in the SET command.	
	Value	SET variable value
	The Value area has four options: Default, Custom, On, and Off.	
	<b>Note:</b> When <b>Custom</b> is selected, the <b>On</b> and <b>Off</b> buttons and the text field may or may not be enabled for user selection. The availability of these fields depends on the item selected in the Set Option.	
	Screen Buffer	SET variable value
	This area has two text boxes: Buffer Width and Buffer Length.	
	• In the <b>Buffer Width</b> text box, you set the number of characters that SQL*Plus displays on one line. If you enter a number smaller than the length of output data, SQL*Plus truncates the data to match the buffer width you specified. The default value of the Buffer Width parameter is 100 characters. You can specify from 80 to 1000 characters on one line.	
	• In the <b>Buffer Length</b> text box, you set the number of lines that SQL*Plus displays on the screen. If SQL*Plus displays more lines of data than you specify, the remaining lines of data will "wrap around" to the top of the screen buffer. The default value of the Buffer Length parameter is 1000 lines. You can specify from 100 to 2000 lines on one screen.	
	<b>Notes:</b> When you change the <b>Screen Buffer</b> option, SQL*Plus displays a dialog to alert you that if you shorten the size of your screen buffer, some data may not be displayed on your screen. Click <b>OK</b> to proceed.	

Option	Description of Options Menu Option	Command Line
	If you use SET MARKUP to send output to a HTML table, the number of lines specified in the Buffer Length variable specifies the number of HTML table rows. Each HTML table row may contain more than one text line.	

#### Help Menu

The **Help** menu has the following option:

Option	Description of Help Menu Option	Command Line
About SQL*Plus	Displays the SQL*Plus version number and copyright information.	not applicable
	You access SQL*Plus help from the SQL*Plus prompt. See "Accessing SQL*Plus Help" in Chapter 1.	

## Setting Options and Values Using the Environment Dialog

Choose **Environment** from the **Options** menu to display the Environment dialog which you can use to create a SQL environment statement for the current session.

Choose an item from the **Set Options** list to begin. You can use the default settings, or you can customize the settings by using the other dialog controls. The available controls vary with the options you choose. You can make multiple changes to options and values. When the text box is available, you can enter appropriate text or appropriate numeric values. Click **OK** to commit your settings.

#### Example 3–1

The arraysize is set to 15, the default value. Since the arraysize is a numeric variable, the On and Off buttons are not available.



Environment Click Custom to set Set Options Value Screen Buffer arraysize autocommit your own value Buffer Width: 100 C Default autoprint autorecovery • Custom 1000 Buffer Length: autotrace blockterminato 0.00 closecursor cmdsep colsep O Off 20 compatibility concat Cancel 0K copycommit Enter a custom numeric value in the text box

To change the arraysize, click **Custom** and enter the number in the text box.

#### Example 3–2

The default for echo is off. To change the setting, click **Custom** and then click **On**. Since echo can only be on or off, the text box is not available.



### Changing the GUI Font and Font Size

There are two registry entries that set the font and font size used in the SQL\*Plus Windows GUI. **SQLPLUS\_FONT** sets the font face, and **SQLPLUS\_FONT\_SIZE** sets the font size in pixels. You use the Windows Registry Editor to create these two registry entries and define values for them. Ensure that you create the correct entries in uppercase, and that the font names you enter are correct. If you enter an incorrect name, the default font and size, **Fixedsys 16**, is used.

**Warning:** Microsoft does not recommend modifying the registry. Editing the registry may affect your operating system and software installation. Only advanced users should edit the registry. Oracle takes no responsibility for problems arising from editing the Windows registry.

You can choose any fixed-pitch TrueType font available in your Windows system such as **Courier New** or **Lucida Console**. If you choose a proportional pitch font such as **Arial** or **Times New Roman**, or if you enter an unavailable font, the registry entry is ignored and the default font and size, **Fixedsys 16**, are used. If you choose an unavailable font size, the default font size, **16**, is used.

If you do not create the **SQLPLUS\_FONT** registry entry, or if you do not specify a value for **SQLPLUS\_FONT**, the default font and size, **Fixedsys 16**, are used.

If you want to use particular characters, such as the Euro sign, you should make sure that the fixed pitch font you choose contains those characters.

#### To Change the Windows GUI Font and Font Size

- 1. Select Run from the the Start menu and then enter regedit in the Open field.
- 2. Click **OK** to start the Registry Editor. The Registry Editor is displayed.
- 3. Navigate to HKEY\_LOCAL\_MACHINE\SOFTWARE\ORACLE\HOME0.

**Note:** If you have more than one Oracle installation, you must select the HOME entry associated with the Windows GUI you want to change. HOME0 is the registry entry for an Oracle installation. A subsequent Oracle installation will have the registry entry HOME1 and the next HOME2 and so on.

Changes only affect a SQL\*Plus Windows GUI started from the associated Oracle installation, so you can use different settings for each Oracle installation.

4. Click New String Value in the Edit menu. A new string value, with the default name, NewValue #1 is created at the bottom of the right pane of the Registry Editor. The default name of the new string value is selected ready for you to replace with the name you want.

5. Enter SQLPLUS\_FONT as the name of the new font face string value. If you miskey the name or inadvertently enter it in mixed or lower case, you can edit the name by selecting **Rename** from the **Edit** menu.

or

Enter **SQLPLUS\_FONT\_SIZE** as the name of the new font size string value. If you miskey the name or inadvertently enter it in mixed or lower case, you can edit the name by selecting **Rename** from the **Edit** menu.

- **6.** Click **Modify** from the **Edit** menu or press Enter again to display the Edit String dialog.
- **7.** Enter the font name you want to use, such as Courier New, in the **Value Data:** field. SQL\*Plus will use the new font the next time you start the SQL\*Plus Windows GUI.

or

Enter the font size you want to use in pixels, such as 14, in the **Value Data:** field. SQL\*Plus will use the new font size the next time you start a SQL\*Plus Windows GUI.

**Note:** You should not change the font face or font size while any SQL\*Plus Windows GUI is active. You should exit all SQL\*Plus Windows GUI sessions, make font face and font size changes in the registry, exit the Registry Editor and then restart the SQL\*Plus Windows GUI to see the changes.

#### Using a Special Character

To check if a font contains a particular character such as the Euro sign, enter the character's decimal number equivalent in the SQL\*Plus Windows GUI. For example, the decimal number equivalent for the Euro sign is 128, so you would enter **Alt+0128** to display it. If it appears correctly, the choosen font contains the Euro sign, otherwise you need to try another font.

You can also use the Windows Character Map accessory to view the characters available in a font. Character Map also shows the decimal number equivalent for extended ASCII characters. You access the Character Map accessory by selecting **Start**, **Programs**, **Accessories** and then **Character Map**.

# **Exiting SQL\*Plus**

You enter EXIT or QUIT at the SQL\*Plus prompt to exit SQL\*Plus from the command line interface or from the GUI.

You return to the Windows Command Prompt when you exit either the command line interface, or the GUI if you started it from the command line with SQLPLUSW.

The GUI closes and you return to Windows when you exit SQL\*Plus from the GUI.

# **Operating System-Specific References**

This chapter provides the operating system-specific information that is referenced in the *SQL\*Plus User's Guide and Reference*.

Specific topics discussed are:

- Automatic Login
- TIMING Command
- Interpreting Error Messages
- Setting Up Your SQL\*Plus Environment
- Sending Results to a File
- @, @@, and START Commands
- HOST Command
- SET NEWPAGE Command
- PRODUCT\_USER\_PROFILE Table

# **Automatic Login**

When connecting to an Oracle database on the same Windows computer, you can set up SQL\*Plus to do an automatic login by following these steps:

- Create an account in the database <PREFIX>USERX for every Windows user (USERX) who needs access to the database. <PREFIX> is the parameter OS\_ AUTHENT\_PREFIX in the initialization parameter file for the database (the default is OPS\$). See the Oracle8i Reference and the Oracle Advanced Security Administrator's Guide for more information about the OS\_AUTHENT\_PREFIX initialization parameter.
- 2. After logging on to Windows as USERX, you can log in to SQL\*Plus using / (slash) instead of *username/password*.

See "Shortcuts to Starting SQL\*Plus" in Chapter 2 of the *SQL\*Plus User's Guide and Reference* which refers you to this guide for information about automatically logging on to SQL\*Plus when you log on to your operating system.

# **TIMING Command**

The SQL\*Plus TIMING command displays output in hours, minutes, seconds and hundredths of seconds. For example, 02:31:07.55 is 2 hours, 31 minutes and 7.55 seconds.

See "Collecting Timing Statistics on Commands You Run" in Chapter 2 and the sections "SET" and "TIMING" in Chapter 8 of the *SQL\*Plus User's Guide and Reference* which discuss how to use the TIMING command and the SET TIMING command to record timing data for an elapsed period.

# Interpreting Error Messages

See "Interpreting Error Messages" in Chapter 2 of the *SQL\*Plus User's Guide and Reference* and this guide for information about interpreting error messages. See *Oracle8i Error Messages* to find explanations and actions for error codes beginning with the letters ORA.

If you do not find the error code in *Oracle8i Error Messages*, see *Oracle8i Administrator's Guide for Windows NT*.
# Setting Up Your SQL\*Plus Environment

When you install SQL\*Plus, LOGIN.SQL is copied to the DBS subdirectory, and GLOGIN.SQL is copied to the SQLPLUS\ADMIN subdirectory of your Oracle home directory.

If you modify LOGIN.SQL or GLOGIN.SQL, make sure you do not add any ANSI escape sequences.

See "Setting Up Your SQL\*Plus Environment" in Chapter 3 of the *SQL\*Plus User's Guide and Reference*, which describes the LOGIN.SQL and GLOGIN.SQL files.

# Sending Results to a File

The SPOOL command is available from the **File** menu in the SQL\*Plus graphical user interface. See "File Menu" on page 3-6 for more information.

When you use the SPOOL command from the graphical user interface or the command line interface, SQL\*Plus adds .LST to the file name if you do not specify an extension.

SQL\*Plus does not support the use of the SPOOL OUT clause at the command line.

See "Sending Results to a File" in Chapter 4 and "Spool" in Chapter 8 of the *SQL\*Plus User's Guide and Reference*, for more information about the SPOOL command.

# @, @@, and START Commands

SQL\*Plus searches the current default directory for the file name that you specify with the @, @@, or START command. If SQL\*Plus cannot find this file, the program searches a path to find the file.

You can specify the path that SQL\*Plus searches by modifying the SQLPATH parameter in your registry. For more information about the SQLPATH parameter, see the "SQLPATH Parameter Description" in Appendix A.

See the sections "@ (at sign)", "@@ (double at sign)", and "START" in Chapter 8 of the *SQL\*Plus User's Guide and Reference*, which describe how SQL\*Plus searches for a file when you use the @, @@, or START command.

# **HOST Command**

In SQL\*Plus, you can access the Windows command prompt by entering the HOST command or a dollar sign (\$) at the SQL\*Plus prompt.

To return to SQL\*Plus from the Windows command prompt, enter exit.

See "HOST" in Chapter 8 of the *SQL\*Plus User's Guide and Reference*, which describes how to use the HOST command to execute a host operating system command without leaving SQL\*Plus.

# SET NEWPAGE Command

The SET NEWPAGE 0 command does not clear the screen between pages. Instead, a black box appears in the GUI, or another character in the command line interface.

See "SET" in Chapter 8 of the *SQL\*Plus User's Guide and Reference*, which describes how to set the NEWPAGE system variable, as well as many other system variables. It is recommended that you use SET NEWPAGE NONE.

# PRODUCT\_USER\_PROFILE Table

The PRODUCT\_USER\_PROFILE (PUP) table provides product-level security that supplements the user-level security provided by the SQL GRANT and REVOKE commands and user roles.

To create the PUP table

Log in to SQL\*Plus as the SYSTEM user and run PUPBLD.SQL which is located in the *ORACLE\_HOME*\SQLPLUS\ADMIN directory with:

SQL> @%ORACLE\_HOME%\SQLPLUS\ADMIN\PUPBLD.SQL

or

**1.** Set an environment variable, SYSTEM\_PASS, to hold the SYSTEM user login with:

C:\> SET SYSTEM\_PASS=SYSTEM/PASSWORD

where *PASSWORD* is the password you have defined for the SYSTEM user. The default SYSTEM user password is MANAGER.

PUPBLD.BAT reads this login from SYSTEM\_PASS to run successfully.

2. Run the batch file, PUPBLD.BAT, from a command line prompt with:

C: > %ORACLE\_HOME% \BIN \PUPBLD.BAT

If you are using SQL\*Plus with a remote database, you may want to install the PUP table on the remote database. To do this, run PUPBLD.SQL on the server directly, or set the LOCAL parameter in your registry to point to the remote database and then run PUPBLD.SQL.

See the "PRODUCT\_USER\_PROFILE Table" in Appendix E of the *SQL\*Plus User's Guide and Reference* for a description of the PUP table.

The PUP table is not used for ODBC connections. The connection identifier for ODBC connections begins with *odbc:* or *oca:*.

# **Customizing Operating System Parameters**

This chapter describes how to customize your SQL\*Plus configuration by changing the SQLPATH parameter in the registry.

Specific topics discussed are:

- Using the Registry
- SQLPLUS Environment Variable

**Warning:** Microsoft does not recommend modifying the registry. Editing the registry may affect your operating system and software installation. Only advanced users should edit the registry. Oracle takes no responsibility for problems arising from editing the Windows registry.

# Using the Registry

When you install Oracle products for Windows, Oracle Universal Installer adds relevant parameters to the Windows registry.

The following table indicates which registry version(s), REGEDT32.EXE or REGEDIT.EXE, you can use for your particular Windows platform:

Windows Platform	REGEDT32.EXE	REGEDIT.EXE
Windows 2000	YES	YES
Windows NT 4.0	YES	YES
Windows 98	NO	YES
Windows 95	NO	YES

The HKEY\_LOCAL\_MACHINE SOFTWARE ORACLE subkey contains the Oracle parameters.

See the Registry Editor's help system for instructions on how to edit the registry entries defining Oracle parameters.

If you change the value of an Oracle parameter or add a parameter to the registry, the change will take effect whenever SQL\*Plus executes a procedure that uses the parameter.

### **SQLPATH Parameter Description**

The SQLPATH parameter specifies the location of SQL scripts. It is defined in the SQLPATH registry entry. SQL\*Plus searches for SQL scripts in the current directory and then in the directories specified by the SQLPATH parameter.

The HKEY\_LOCAL\_MACHINE\SOFTWARE\ORACLE\HOME0 registry subkey contains the SQLPATH registry entry. SQLPATH is created with a default value of \ORACLE\ORA81\DBS. You can specify any directories on any drive as valid values for SQLPATH.

When setting the SQLPATH parameter, you can concatenate directories with a semicolon (;). For example:

C:\ORACLE\ORA81\DATABASE;C:\ORACLE\ORA81\DBS

See the Registry Editor's help system for instructions on how to edit the SQLPATH registry entry.

# SQLPLUS\_FONT Parameter Description

The SQLPLUS\_FONT registry entry defines the font face used in the SQL\*Plus Windows GUI. It is located in the registry subkey, HKEY\_LOCAL\_ MACHINE\SOFTWARE\ORACLE\HOME0. If the SQLPLUS\_FONT entry is not created, or if it has an invalid name or value, the default face, **Fixedsys**, is used.

See "To Change the Windows GUI Font and Font Size" on page 3-12 for details on how to create the SQLPLUS\_FONT registry entry and set the font face. See the Registry Editor's help system for instructions on how to edit the SQLPATH registry entry.

# SQLPLUS\_FONT\_SIZE Parameter Description

The SQLPLUS\_FONT\_SIZE registry entry defines the font size used in the SQL\*Plus Windows GUI. It is located in the registry subkey, HKEY\_LOCAL\_ MACHINE\SOFTWARE\ORACLE\HOME0. If the SQLPLUS\_FONT\_SIZE entry is not created, or if it has an invalid name or value, the default size, **16**, is used.

See "Changing the GUI Font and Font Size" on page 3-11 for details on how to create the SQLPLUS\_FONT\_SIZE registry entry and set the font size. See the Registry Editor's help system for instructions on how to edit the SQLPLUS\_FONT\_SIZE registry entry.

# SQLPLUS Environment Variable

The *SQLPLUS* environment variable specifies the location of SQL\*Plus message files. This environment variable is set during installation and has a default value of

```
%ORACLE_HOME%/SQLPLUS/MESG
```

You should not modify or set this environment variable.

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