

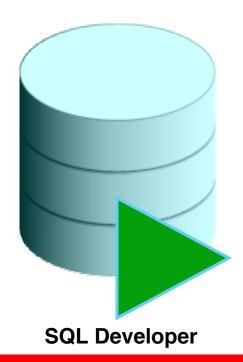
Objectives

After completing this appendix, you should be able to do the following:

- List the key features of Oracle SQL Developer
- Install Oracle SQL Developer
- Identify menu items of Oracle SQL Developer
- Create a database connection
- Manage database objects
- Use SQL worksheet
- Save and run SQL scripts
- Create and save reports

What Is Oracle SQL Developer?

- Oracle SQL Developer is a graphical tool that enhances productivity and simplifies database development tasks.
- You can connect to any target Oracle database schema by using standard Oracle database authentication.

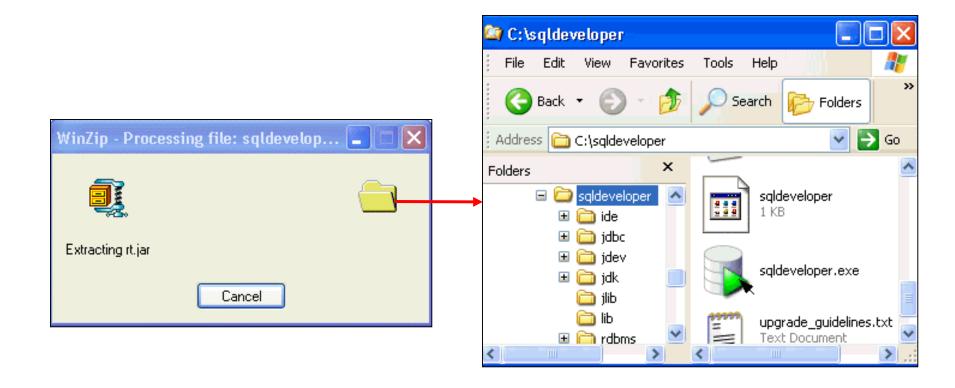


Specifications of SQL Developer

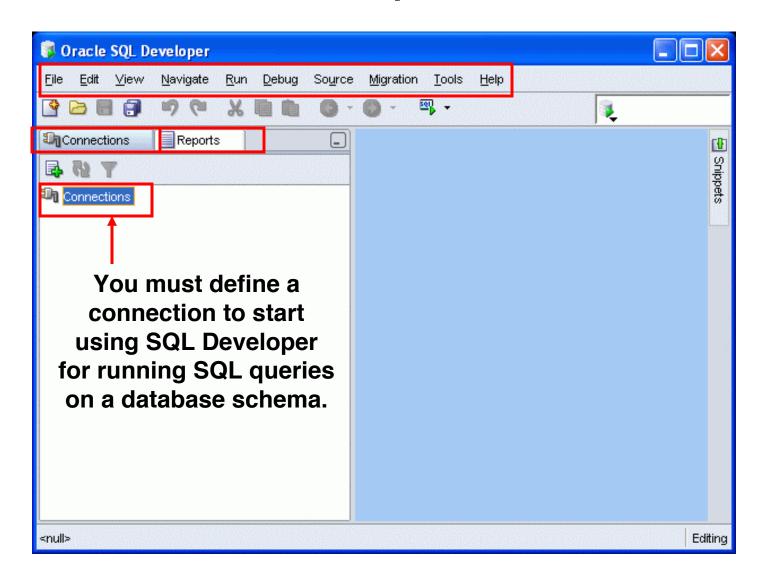
- Developed in Java
- Supports Windows, Linux, and Mac OS X platforms
- Default connectivity by using the JDBC Thin driver
- Does not require an installer
 - Unzip the downloaded SQL Developer kit and double-click sqldeveloper.exe to start SQL Developer.
- Connects to any Oracle Database version 9.2.0.1 and later
- Freely downloadable from the following link:
 - http://www.oracle.com/technology/software/products/sql/ index.html
- Needs JDK 1.5 to be installed on your system. It can be downloaded from the following link:
 - http://java.sun.com/javase/downloads/index_jdk5.jsp

Installing SQL Developer

Download the Oracle SQL Developer kit and unzip into any directory on your machine.



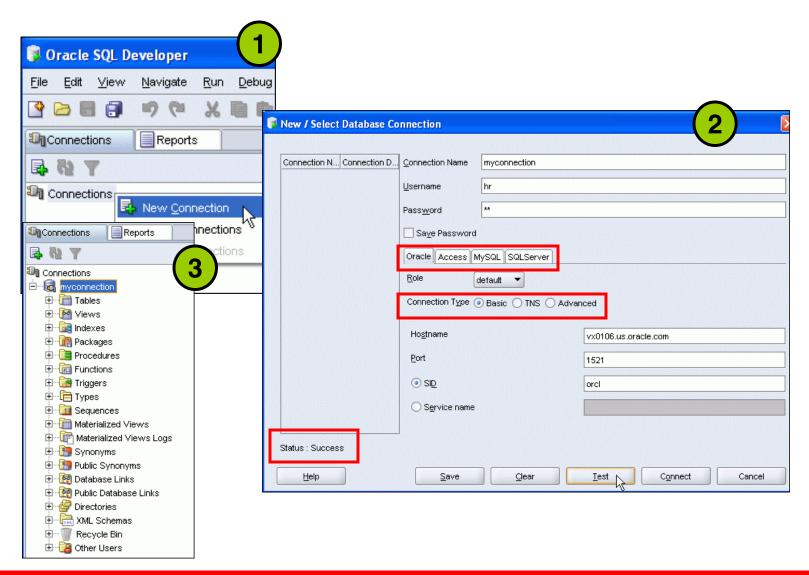
SQL Developer Interface



Creating a Database Connection

- You must have at least one database connection to use SQL Developer.
- You can create and test connections:
 - For multiple databases
 - For multiple schemas
- SQL Developer automatically imports connections defined in the tnsnames.ora file on your system.
- You can export connections to an XML file.
- Each additional database connection that is created is listed in the Connections navigator hierarchy.

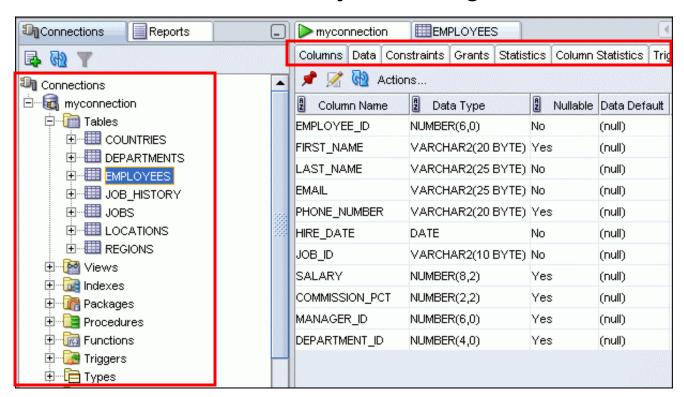
Creating a Database Connection



Browsing Database Objects

Use the Connections navigator to:

- Browse through many objects in a database schema
- Review the definitions of objects at a glance

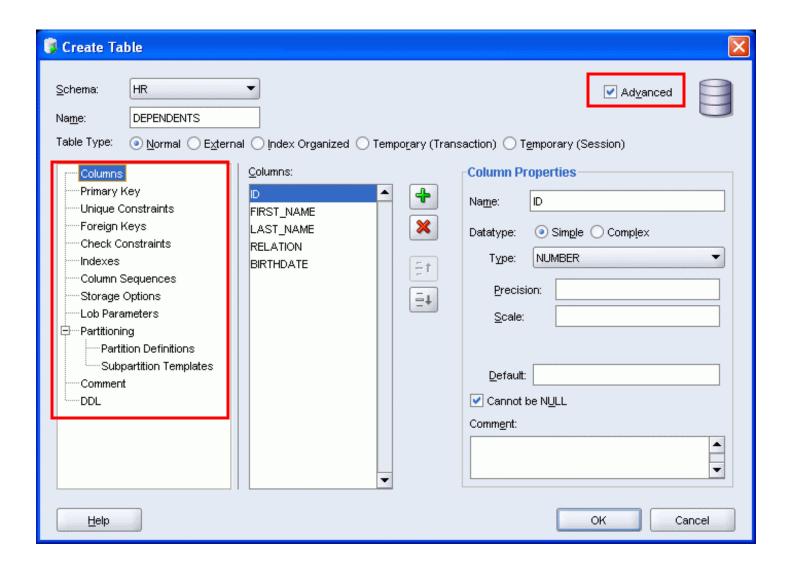


Creating a Schema Object

- SQL Developer supports the creation of any schema object by:
 - Executing a SQL statement in SQL worksheet
 - Using the context menu
- Edit the objects by using an edit dialog or one of the many context-sensitive menus.
- View the DDL for adjustments, such as creating a new object or editing an existing schema object.

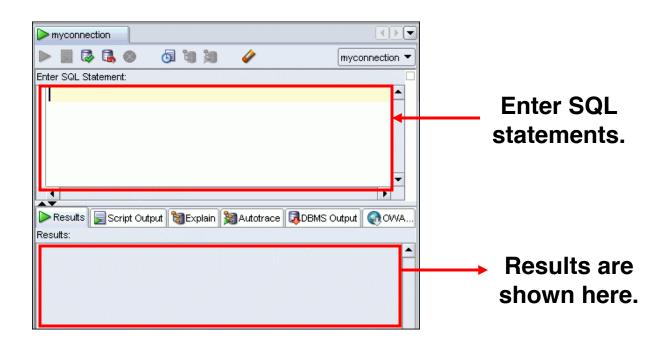


Creating a Table: Example

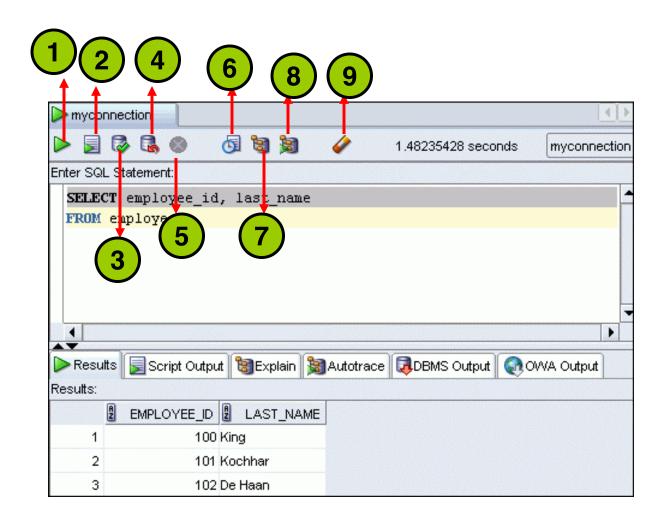


Using the SQL Worksheet

- Use the SQL worksheet to enter and execute SQL, PL/SQL, and SQL*Plus statements.
- Specify actions that can be processed by the database connection associated with the worksheet.

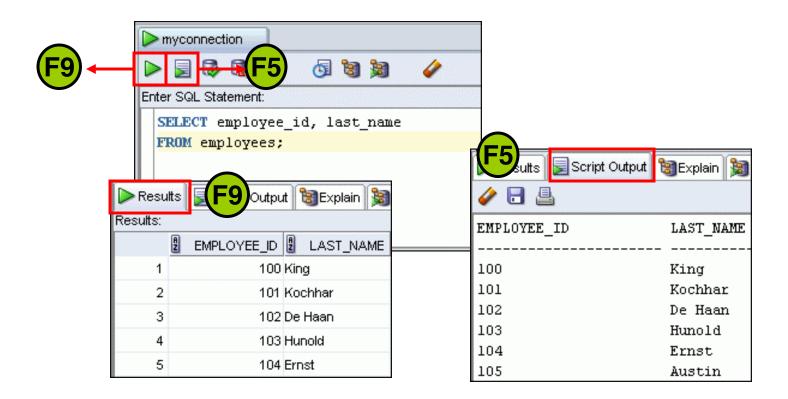


Using the SQL Worksheet

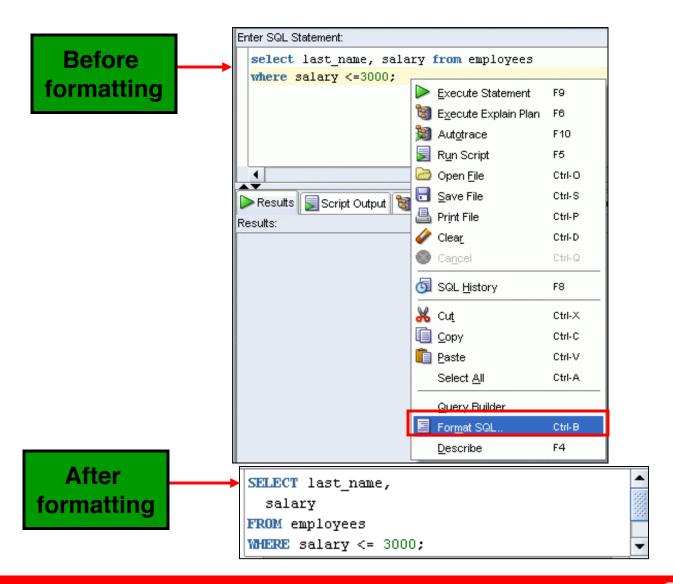


Executing SQL Statements

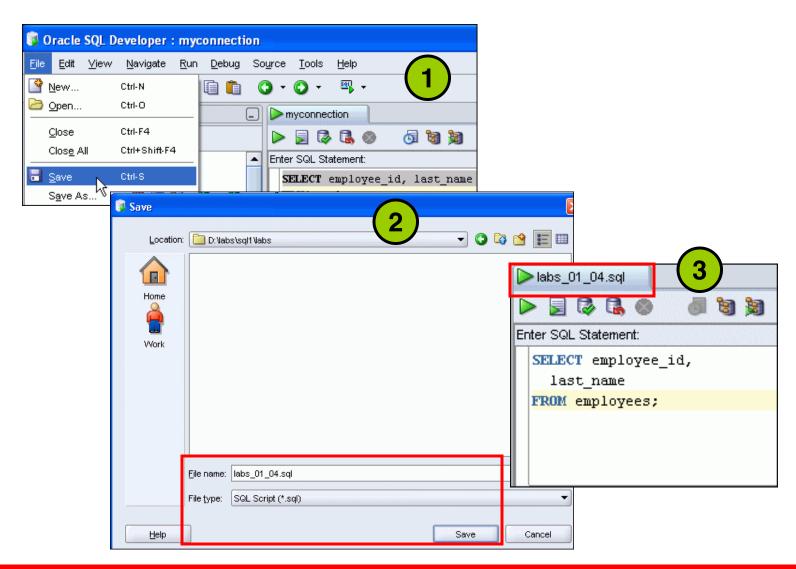
Use the Enter SQL Statement box to enter single or multiple SQL statements.



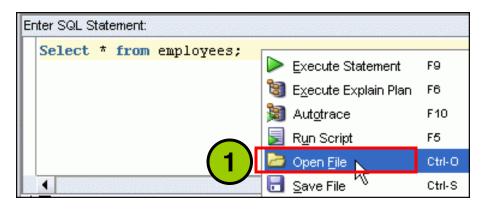
Formatting the SQL Code

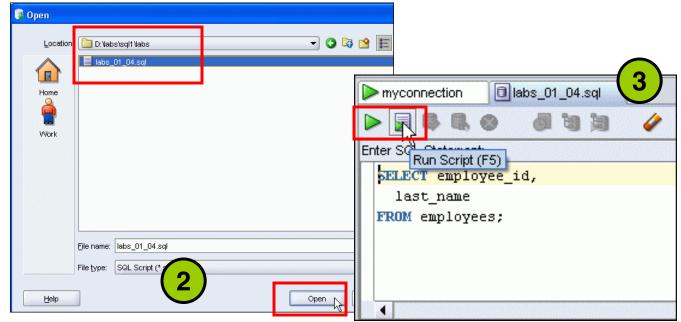


Saving SQL Statements



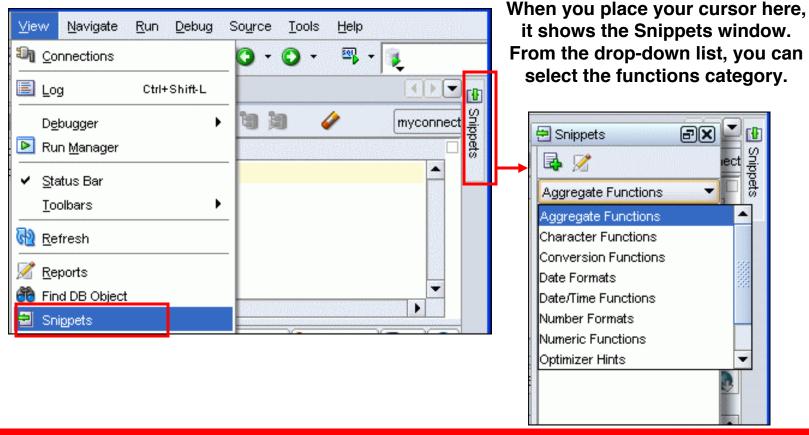
Running Script Files



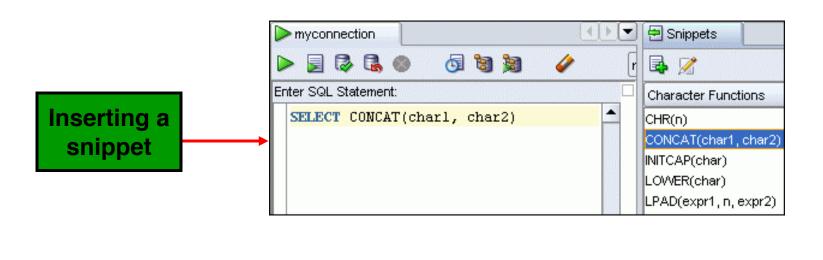


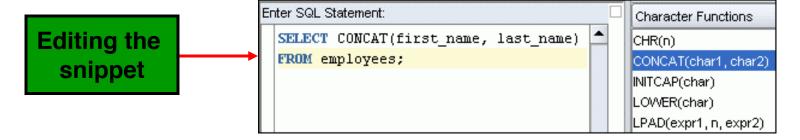
Using Snippets

Snippets are code fragments that may be just syntax or examples.



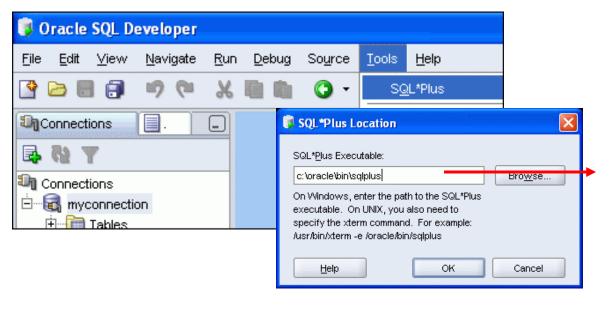
Using Snippets: Example





Using SQL*Plus

- You can invoke the SQL*Plus command-line interface from SQL Developer.
- Close all SQL worksheets to enable the SQL*Plus menu option.



Provide the location of the sqlplus.exe file only the first time you invoke SQL*Plus.

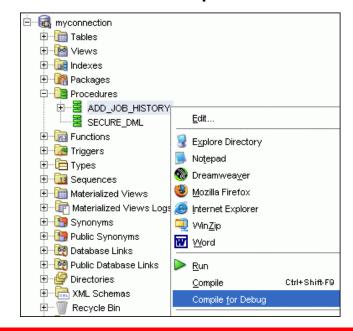
Debugging Procedures and Functions

 Use SQL Developer to debug PL/SQL functions and procedures.

 Use the Compile for Debug option to perform a PL/SQL compilation so that the procedure can be debugged.

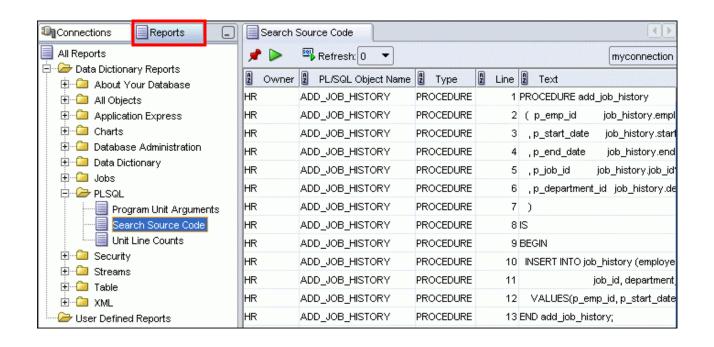
Use the Debug menu options to set breakpoints and to

perform step into, step over tasks.



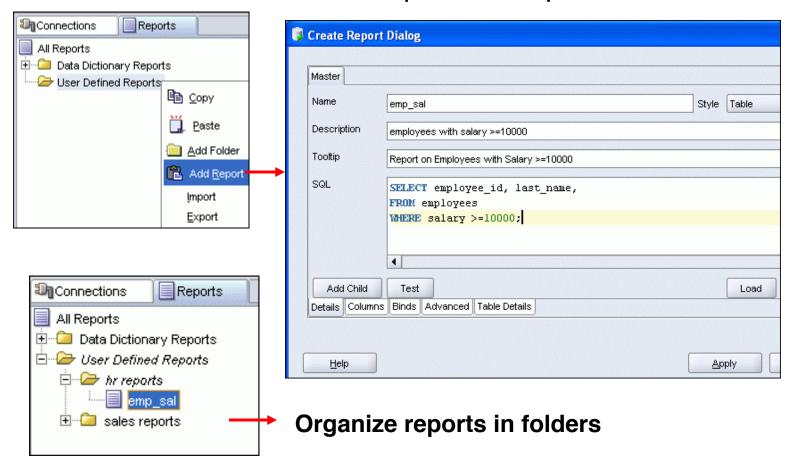
Database Reporting

SQL Developer provides a number of predefined reports about the database and its objects.

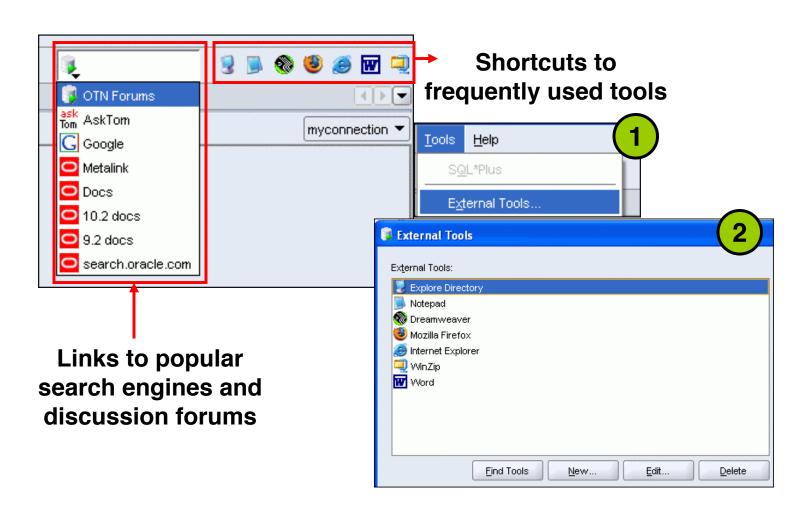


Creating a User-Defined Report

Create and save user-defined reports for repeated use.

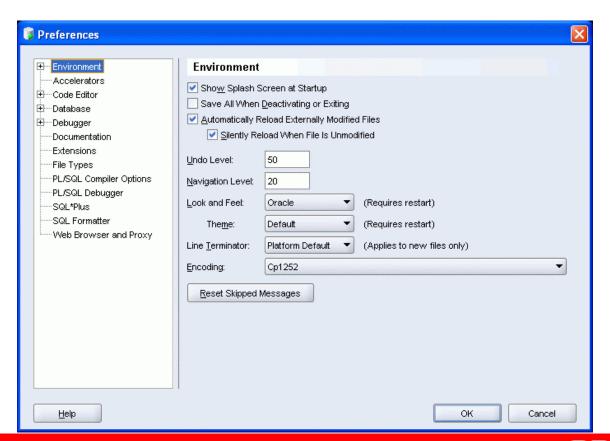


Search Engines and External Tools



Setting Preferences

- Customize the SQL Developer interface and environment.
- From the Tools menu, select Preferences.



Summary

In this appendix, you should have learned how to use SQL Developer to do the following:

- Browse, create, and edit database objects
- Execute SQL statements and scripts in SQL worksheet
- Create and save custom reports