

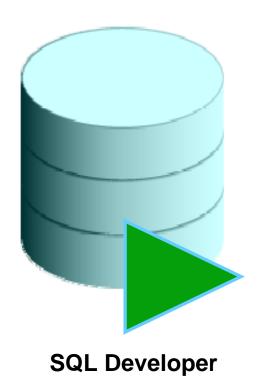
Objectives

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

- List the key features of Oracle SQL Developer
- Identify the 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.

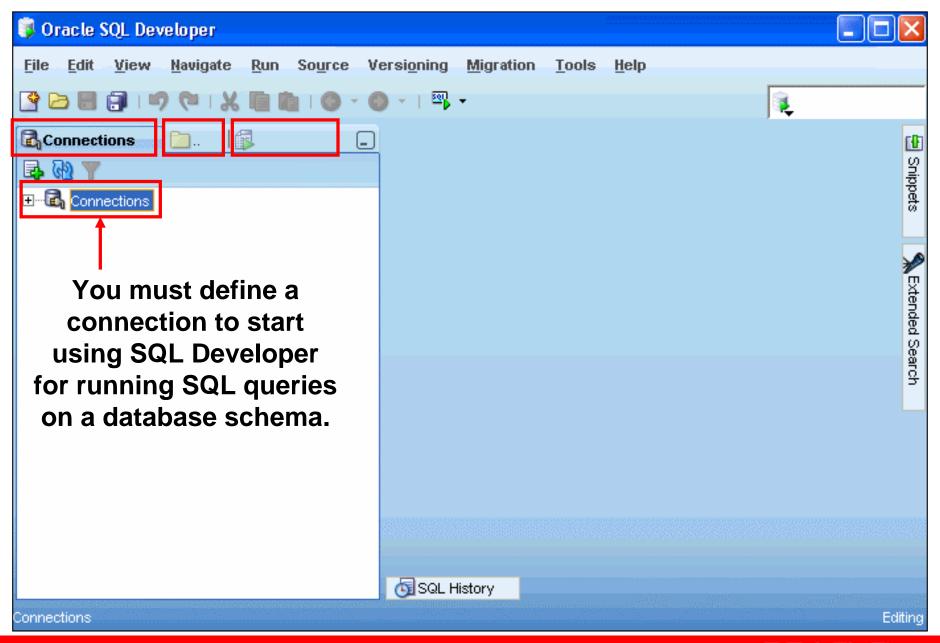


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Specifications of SQL Developer

- Shipped along with Oracle Database 11g Release 2
- Developed in Java
- Supports Windows, Linux, and Mac OS X platforms
- Enables default connectivity using the JDBC Thin driver
- Connects to Oracle Database version 9.2.0.1 and later
- Freely downloadable from the following link:
 - http://www.oracle.com/technology/products/database/ sql_developer/index.html

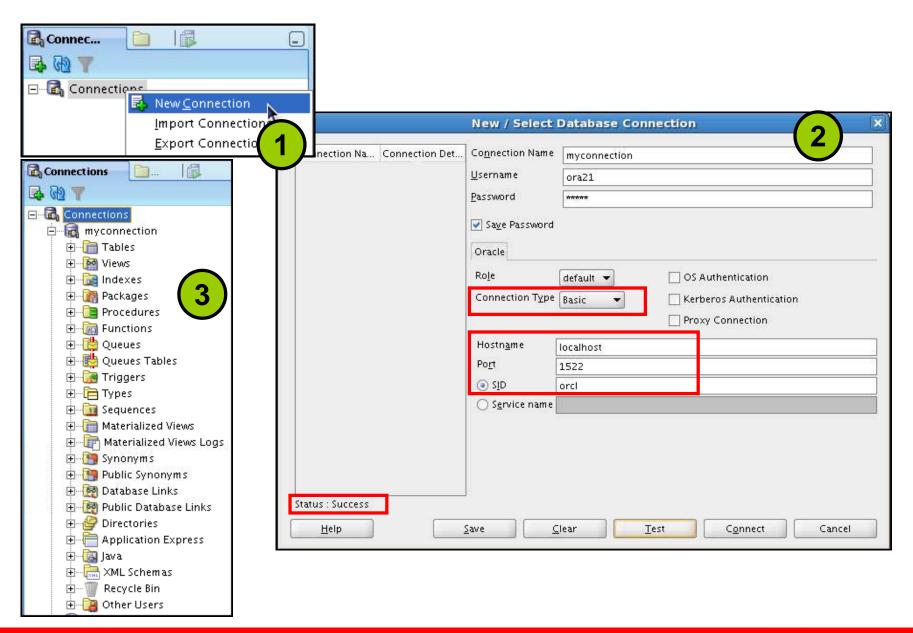
SQL Developer 1.5 Interface



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
 - Multiple schemas
- SQL Developer automatically imports any connections defined in the tnsnames.ora file on your system.
- You can export connections to an Extensible Markup Language (XML) file.
- Each additional database connection created is listed in the Connections Navigator hierarchy.

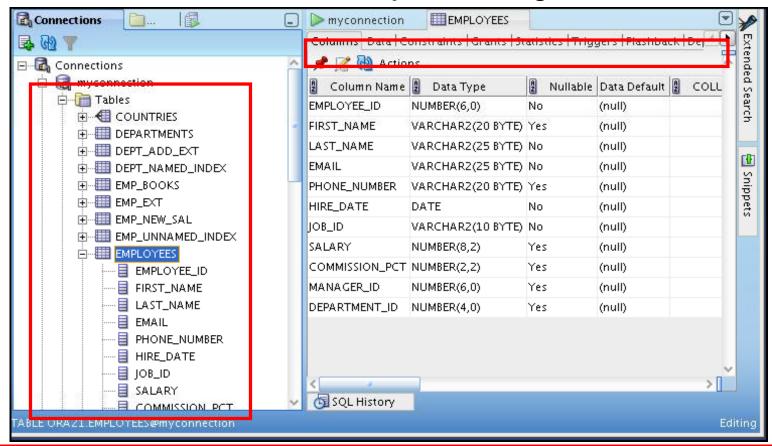
Creating a Database Connection



Browsing Database Objects

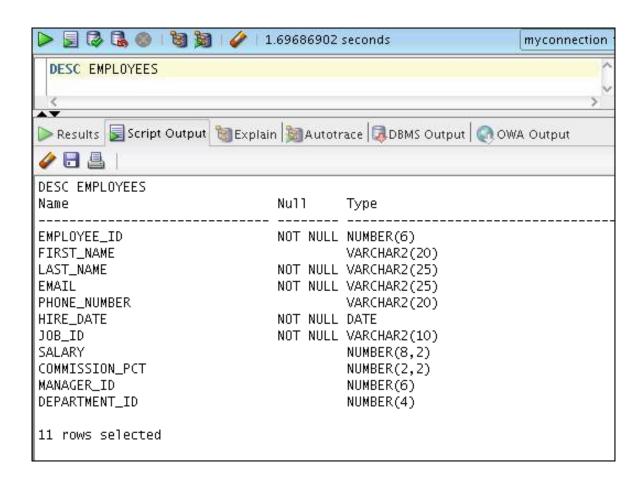
Use the Connections Navigator to:

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



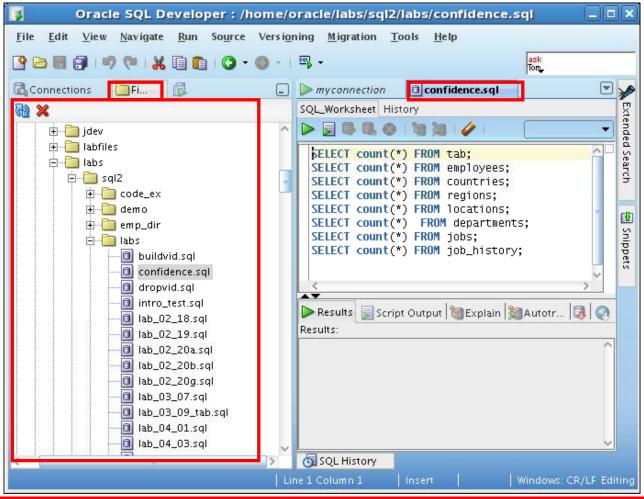
Displaying the Table Structure

Use the DESCRIBE command to display the structure of a table:



Browsing Files

Use the File Navigator to explore the file system and open system files.



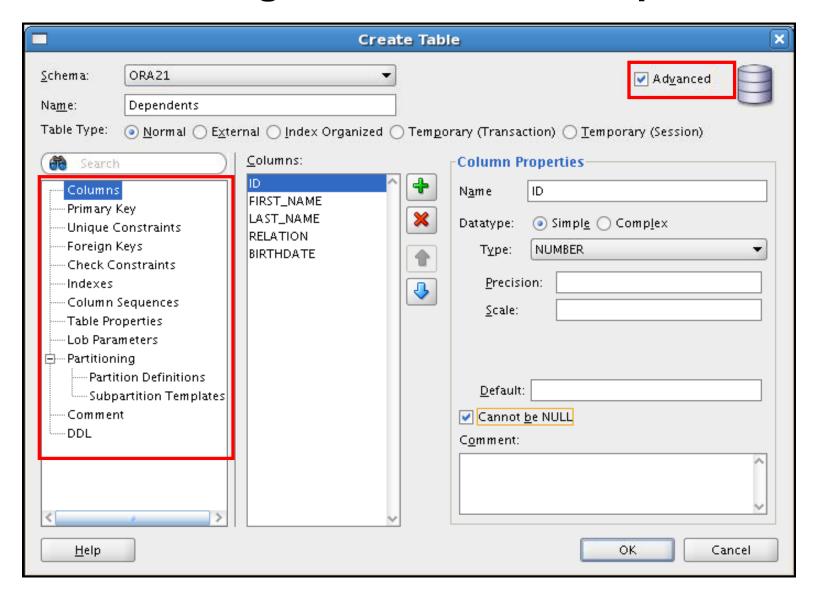
Creating a Schema Object

- 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 box or one of the many context-sensitive menus.
- View the data definition language (DDL) for adjustments such as creating a new object or editing an existing schema object.

Clear Filter

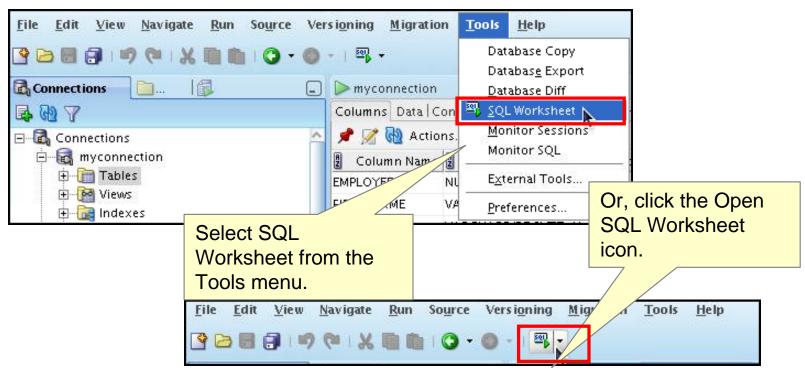
Import Data

Creating a New Table: Example

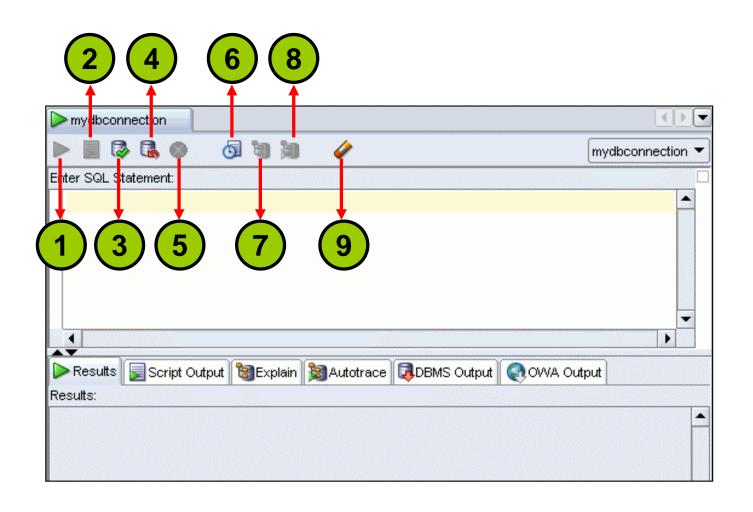


Using the SQL Worksheet

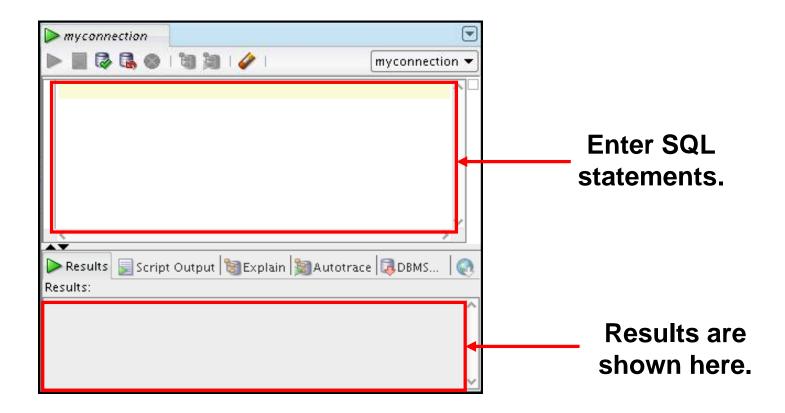
- Use the SQL Worksheet to enter and execute SQL, PL/SQL, and SQL *Plus statements.
- Specify any actions that can be processed by the database connection associated with the worksheet.



Using the SQL Worksheet

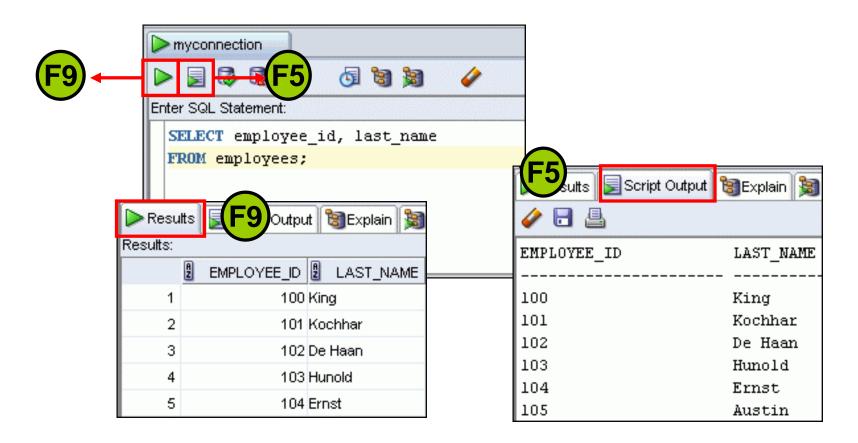


Using the SQL Worksheet

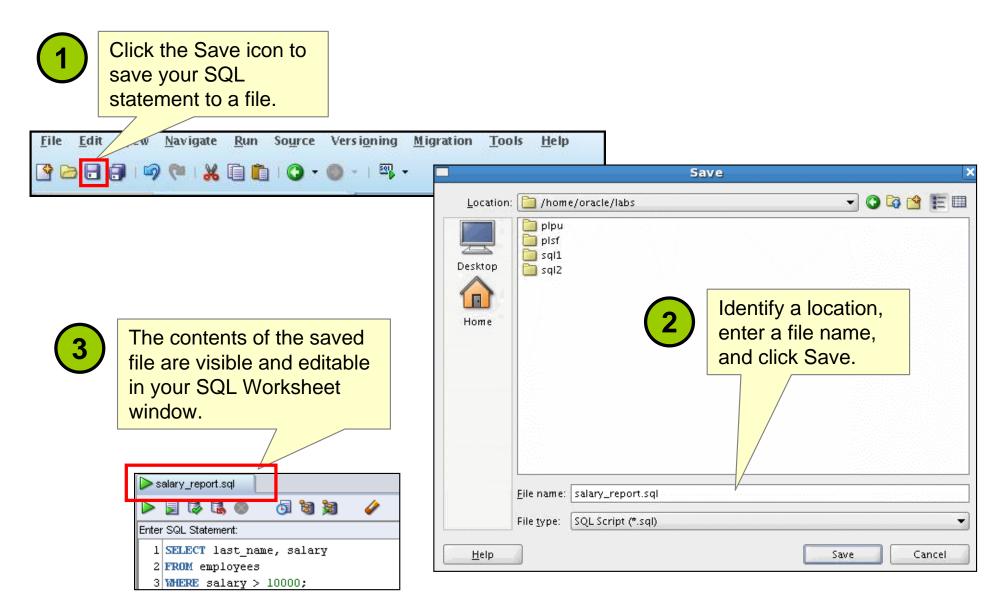


Executing SQL Statements

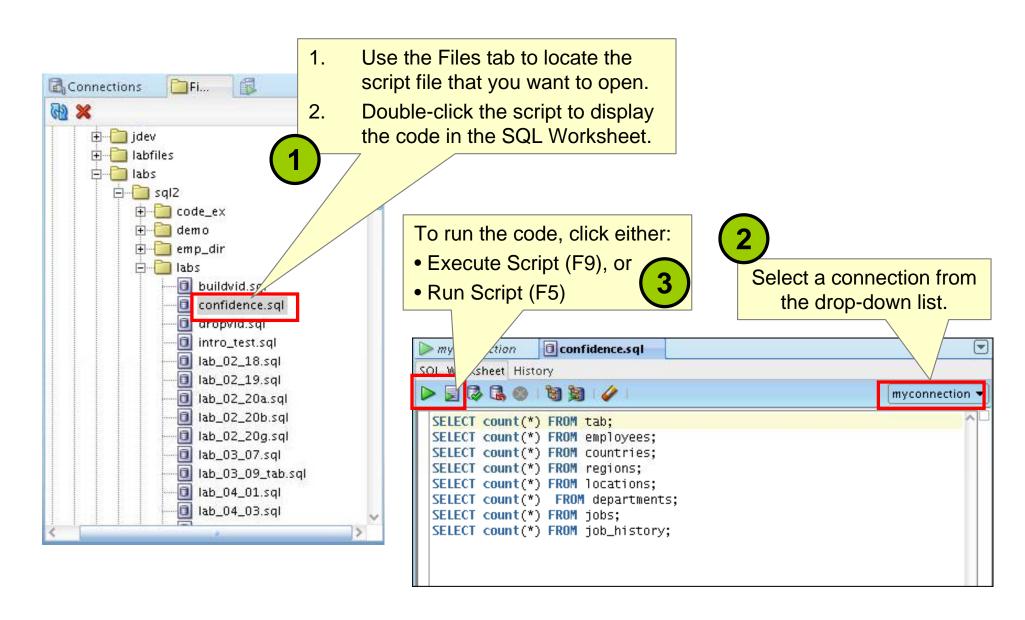
Use the Enter SQL Statement box to enter single or multiple SQL statements.



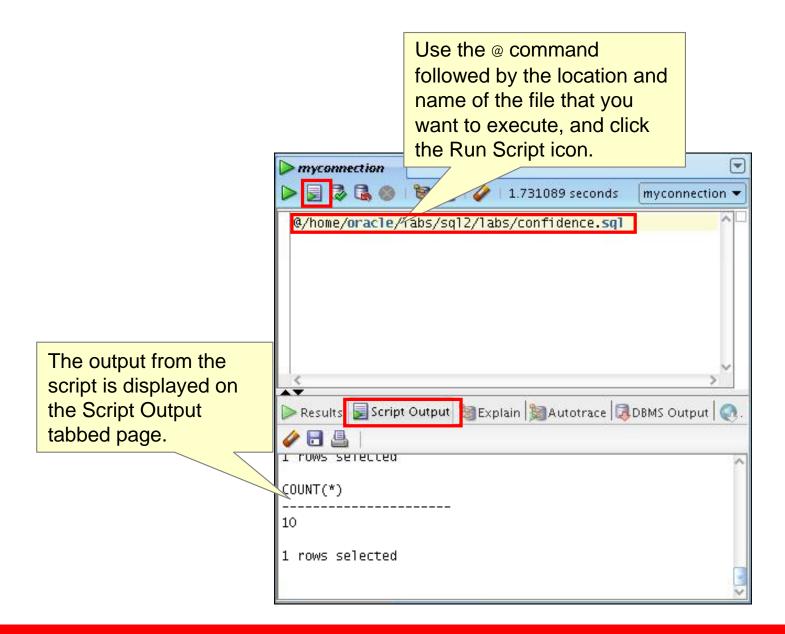
Saving SQL Scripts



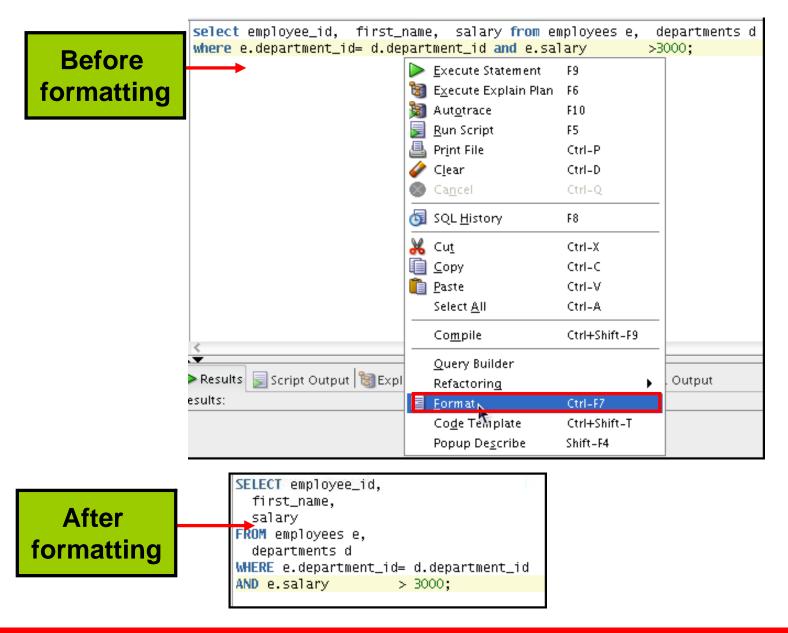
Executing Saved Script Files: Method 1



Executing Saved Script Files: Method 2

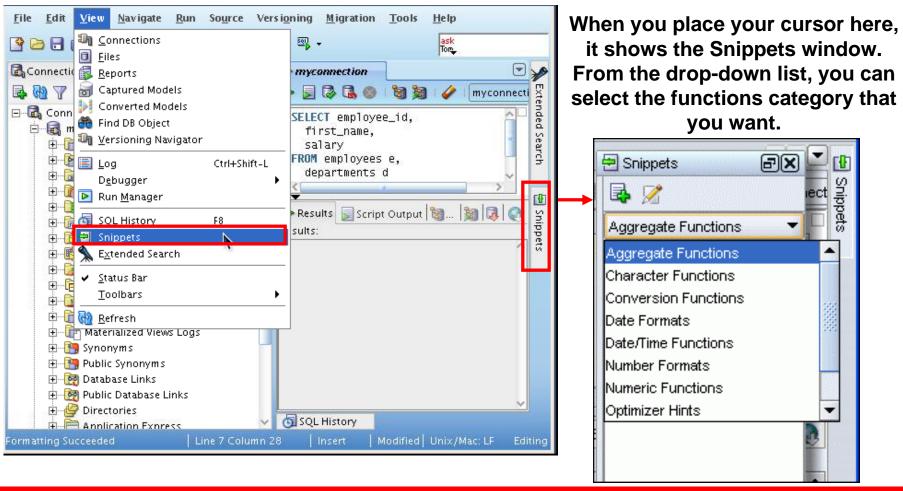


Formatting the SQL Code

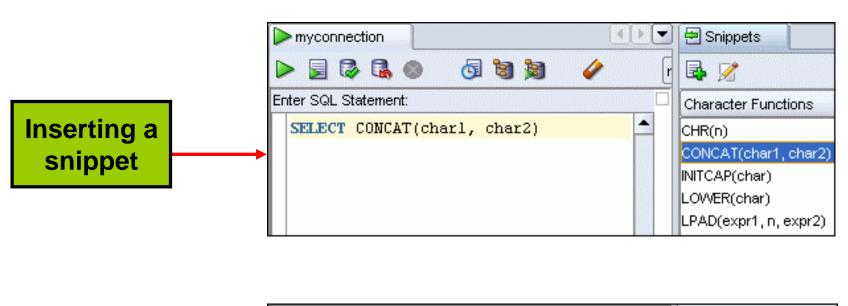


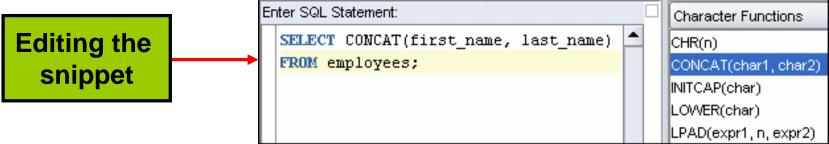
Using Snippets

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



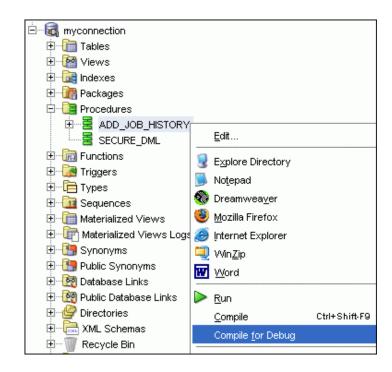
Using Snippets: Example





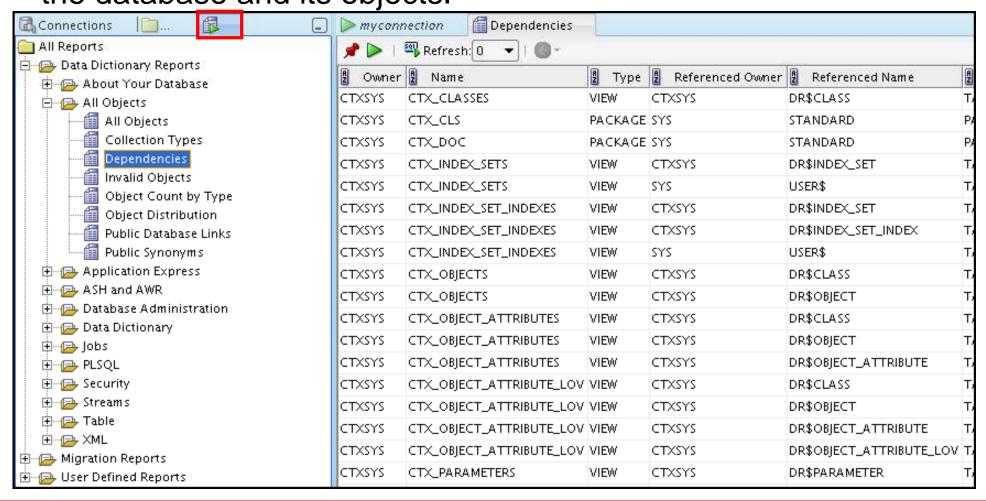
Debugging Procedures and Functions

- 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.



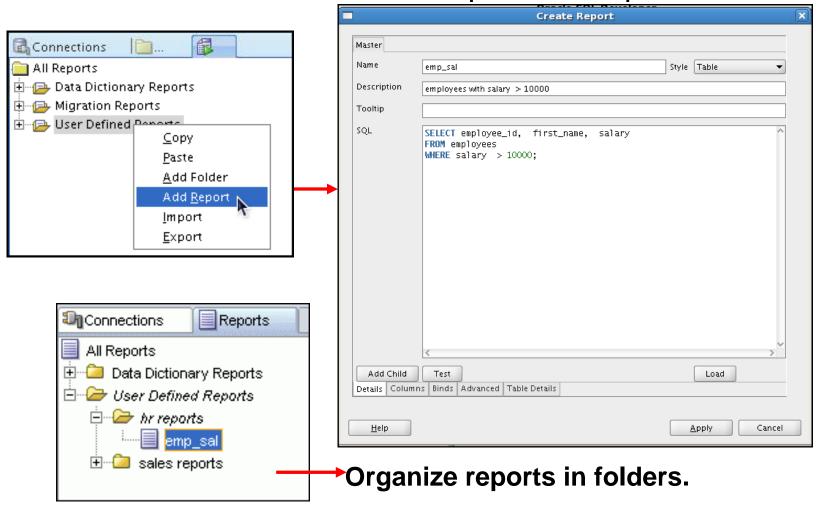
Database Reporting

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

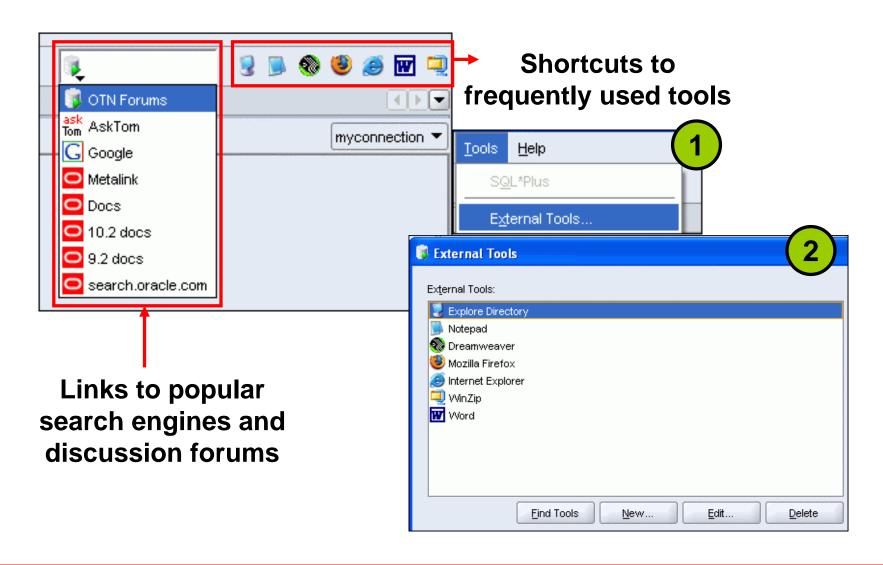


Creating a User-Defined Report

Create and save user-defined reports for repeated use.

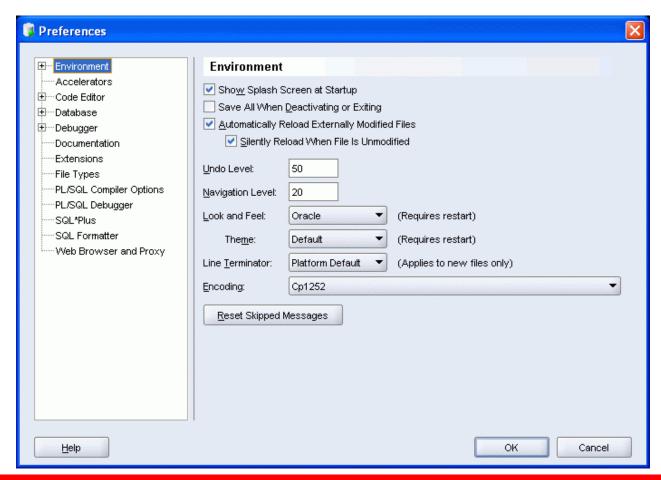


Search Engines and External Tools



Setting Preferences

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



Resetting the SQL Developer Layout

```
_ - ×
                              Terminal
File Edit View Terminal Tabs Help
[oracle@EDRSR5P1 ~]$locate windowinglayout.xml
/home/oracle/.sqldeveloper/system1.5.4.59.40/0.1de.11.1.1.0.22.49.48/wi
ndowinglayout.xml
/home/oracle/.sqldeveloper/system1.5.4.59.41/o.ide.11.1.1.0.22.49.48/wi
ndowinglayout.xml
[oracle@EDRSR5P1 ~]$cd /home/oracle/.sqldeveloper/system1.5.4.59.41/o.i
de.11.1.1.0.22.49.48
[oracle@EDRSR5P1 o.ide.11.1.1.0.22.49.48]$ls
Debugging.layout Editing.layout
                                                windowinglayout.xml
                                   projects
                 preferences.xml settings xml
dtcache.xml
[oracle@EDRSR5P1 o.ide.11.1.1.0.22.49.48] rm windowinglayout.xml
[oracle@EDRSR5P1 o.ide.11.1.1.0.22.49.48]$
```

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