# Practices for Lesson 1: Introduction

Practices for Lesson 1: Overview

Practice Overview

In this practice, you start Oracle SQL Developer, create a new database connection, and browse your HR tables. You also set some SQL Developer preferences.

In some of the practices, there may be exercises that are prefaced with the phrases “If you have time” or “If you want an extra challenge.” Work on these exercises only if you have completed all other exercises within the allocated time, and would like an additional challenge to your skills.

Perform the practices slowly and precisely. You can experiment with saving and running command files. If you have any questions at any time, ask your instructor.

Notes

All written practices use Oracle SQL Developer as the development environment. Although it is recommended that you use Oracle SQL Developer, you can also use SQL\*Plus that is available in this course.

For any query, the sequence of rows retrieved from the database may differ from the screenshots shown.

Before You Begin:

Perform the following steps before you begin the tasks in this practice.

Use the oraenv command to verify or set the environment variable for the orclcdb database. Open a terminal window and at the prompt enter:

$ . oraenv

$ ORACLE\_SID= [orclcdb] ? <ENTER>

The Oracle base remains unchanged with the value /u01/app/oracle

$

Confirm the database is started. If database is not started, use the dbstart.sh script to start the orclcdb database and listener.

$ . dbstart.sh

…

Connected to an idle instance SQL> ORACLE instance started

…

Database mounted Database opened

Practice 1-1: Introduction

Overview

This is the first of many practices in this course. The solutions (if you require them) can be found at the end of the practices for each lesson. The practices are intended to cover most of the topics that are presented in the corresponding lesson.

In this practice, you perform the following:

Start Oracle SQL Developer and create a new connection to the ora1 account.

Use Oracle SQL Developer to examine the data objects in the ora1 account. The

ora1 account contains the HR schema tables.

Note the following location for the practice files:

/home/oracle/labs/sql1/labs

If you are asked to save any practice files, save them in the above location.

Tasks

Start Oracle SQL Developer by Using the SQL Developer Desktop Icon

Create a New Oracle SQL Developer Database Connection

To create a new database connection, in the Connections Navigator, right-click Connections and select New Connection from the context menu. The New / Select Database Connection dialog box appears.

Create a database connection by using the following information.: Connection Name: myconnection

Username: ora1

Password: Enter the password from the Course Practice Environment: Security Credentials document

Hostname: localhost

Port: 1521

Service Name: PDBORCL

Ensure that you select the Save Password check box.

If myconnection exists and you are asked to overwrite, click yes to overwrite.

Test the Oracle SQL Developer Database Connection and Connect to the Database

Test the new connection.

If the status is Success, connect to the database by using this new connection.

If the status “Failure -Test failed: IO Error: The Network Adapter could not establish the connection”, we need to check the status of the LISTENER.

$ lsnrctl status

If not already started, start the LISTENER using this command:

$ lsnrctl start

Then, restart the db and try again.

Browse the Tables in the Connections Navigator

In the Connections Navigator, view the objects that are available to you in the Tables node. Verify that the following tables are present:

COUNTRIES DEPARTMENTS EMPLOYEES JOB\_GRADES JOB\_HISTORY JOBS

LOCATIONS REGIONS

RETIRED\_EMPLOYEES

Browse the structure of the EMPLOYEES table.

View the data of the DEPARTMENTS table.

Solution 1-1: Introduction

Start Oracle SQL Developer by Using the SQL Developer Desktop Icon Double-click the SQL Developer desktop icon.

The SQL Developer interface appears.

Create a New Oracle SQL Developer Database Connection

To create a new database connection, in the Connections Navigator, right-click Connections and select New Connection from the context menu.

The New / Select Database Connection dialog box appears.

Create a database connection by using the following information:

Connection Name: myconnection

Username: ora1

Password: Enter the password from the Course Practice Environment: Security Credentials document

Hostname: localhost

Port: 1521

Service Name: pdborcl

Ensure that you select the Save Password check box.

Test the Oracle SQL Developer Database Connection and Connect to the Database

Test the new connection.

If the status is Success, connect to the database by using this new connection.

When you create a connection, a SQL Worksheet for that connection opens automatically.

Browse the Tables in the Connections Navigator

In the Connections Navigator, view the objects that are available to you in the Tables node. Verify that the following tables are present:

COUNTRIES DEPARTMENTS EMPLOYEES JOB\_GRADES JOB\_HISTORY JOBS

LOCATIONS REGIONS

RETIRED\_EMPLOYEES

Browse the structure of the EMPLOYEES table.

View the data of the DEPARTMENTS table.