Chapter 2

How to use SQL Developer and other development tools

Before you start the exercises…

Before you start these exercises, you need to install the Oracle Database and SQL Developer. The procedures for doing that are provided in appendix A.

In addition, you'll need to get the mgs_ex_starts directory from your instructor. This directory contains some script files that you need to do the exercises.

Exercises

In these exercises, you'll use SQL Developer to create the My Guitar Shop database, to review the tables in this database, and to enter SQL statements and run them against this database. Your submission to your instructor should be a summary of everything you complete within this lab. Take screenshots of each output to show completion, but you only need to show screenshots for items that say "SCREENSHOT".

Use SQL Developer to create the My Guitar Shop database

1. Start SQL Developer.
2. Use it to create a connection for the system user.
3. Open the script file named create_mgs_user.sql that's in the mgs_ex_starts directory.
4. Execute the entire script by clicking the Run Script button in the code editor toolbar or by pressing F5. When you do, the Output window displays messages that indicate whether the script executed successfully. You must be connected as the system user for this script to execute successfully. If you get an error the first time you run this script, run it again.
5. Open the script file named create_mgs_tables.sql that's in the mgs_ex_starts directory.
6. Execute the entire script by clicking the Run Script button in the code editor toolbar or by pressing F5. When you do, the Output window displays messages that indicate whether the script executed successfully. If you get an error the first time you run this script, run it again.

Use SQL Developer to review the My Guitar Shop database

7. Create a connection named mgs for the user named mgs. The password for this user should be "mgs". SCREENSHOT
8. In the Connections window, expand the node for the connection named mgs so you can see all of the database objects it contains. If this connection isn't displayed in the Connections window, you may need to click on the Refresh button to display it.
9. View the data for the Categories and Products tables.
10. Navigate through the database objects and view the column definitions for at least the Categories and Products tables.

Use SQL Developer to enter and run SQL statements

11. Open a SQL Worksheet. Then, enter and run this SQL statement:

```
SELECT product_name FROM products
```

    For this to work correctly, you must be connected as the mgs user. SCREENSHOT

12. Delete the *e* at the end of product_name and run the statement again. Note the error number and the description of the error. SCREENSHOT

13. Open another SQL Worksheet. Then, enter and run this statement: SCREENSHOT

```
SELECT COUNT(*) AS number_of_products
FROM products
```

Use SQL Developer to open and run scripts

14. Open the script named product_details.sql that's in the mgs_ex_starts directory. Note that this script contains just one SQL statement. Then, run the statement. SCREENSHOT

15. Open the script named product_summary.sql that's in the mgs_ex_starts directory. Note that this opens another SQL Worksheet.

16. Open the script named product_statements.sql that's in the mgs_ex_starts directory. Notice that this script contains two SQL statements that end with semicolons.

17. Press the F5 key or click the Run Script button to run both of the statements in this script. Note: you may need to scroll over to the right to see the list_price and date_added columns. Make sure to view the results of both SELECT statements. SCREENSHOT

18. Move the insertion point into the first statement and press Ctrl+Enter to run just that statement. SCREENSHOT

19. Move the insertion point into the second statement and press Ctrl+Enter to run just that statement. SCREENSHOT

20. Exit SQL Developer.