COMP 3311: Database Management Systems

Lab 2 Exercise: Oracle Database, SQL*Plus and SQL Developer

WHAT TO DO

- <u>Download</u> the zipped folder Lab2Exercise.zip from the *Oracle Database*, *SQL*Plus and SQL Developer* entry of the Lab Schedule course webpage to the desktop and unzip it. The folder contains the script file Lab2DB.sql which contains SQL statements that:
 - drops (deletes) a table named Student if it exists;
 - creates a table named Student with 6 attributes;
 - inserts 20 different records into the Student table.

Don't worry if you do not understand the SQL statements. They will be covered in detail in future labs and the lectures.

- 2. **Execute** the Lab2DB.sql script file in SQL Developer.
- Create a new SQL script file in SQL Developer named InsertMyself.sql.
- 4. **Construct**, in the InsertMyself.sql script file, an SQL insert statement that inserts into the Student table a record with the following values. (See the Lab2DB.sql script file for examples of such an insert statement.)
 - Your student id (8 digits max), first name (20 characters max), last name (25 characters max) and HKUST email login name excluding "@connect.ust.hk" (15 characters max).
 - Any phone number of your choosing; it does not have to be your phone number (8 digits max).
 - The value "3.64" for the cga attribute.
 - The value "COMP" for the departmentId attribute.
 - Any valid year for the admissionYear attribute (4 digits).

Note: All values, except for cga, are strings and need to be enclosed in single quotes.

Add the command commit as the second (and last) line of the script file. This command writes any changes you make to a table from main memory to disk (i.e., to the database).

- 5. **Save** your InsertMyself.sql script file inside the Lab2Exercise folder.
- 6. **Execute** your InsertMyself.sql script file in SQL Developer using the Run Script button.
- 7. **Open** an SQL worksheet and in this worksheet **construct** and **execute** an SQL select statement to show all the records in the Student table as shown in Figure 1.

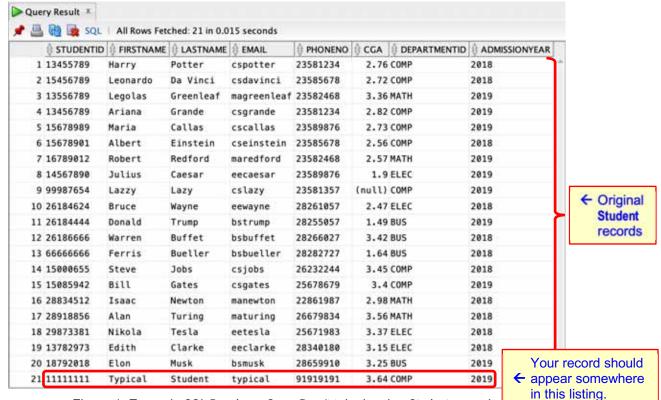


Figure 1: Example SQL Developer Query Result tab showing Student records

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Note: The following SQL*Plus command is used in theLab2DB.sql script file.

clear screen clears the Script Output pane.

WHAT TO SUBMIT

- 1. Your InsertMyself.sql script file containing only the following two statements:
 - a. the SQL insert statement that adds your student record and
 - b. the commit command.
- 2. A jpg/jpeg screenshot file or PDF file of the SQL Developer Query Result tab showing the result of the SQL select statement as shown in Figure 1.

How To Submit

By 11:00 p.m. today, upload your InsertMyself.sql script file and jpg/jpeg screenshot file or PDF file to Canvas by selecting *Lab 2* in the Assignments section of Canvas, and then selecting the Submit Assignment button. You need to upload each file separately. To check your submission, select the Submission Details button on the right side of Canvas. For help, select the Help button at the top-right of Canvas.

WHAT TO SAVE

Save your InsertMyself.sql script file as it will be needed in subsequent labs.