

Lab SQL Introduction

01. Create tables and populate them in SQL Live

- a. Go to <https://livesql.oracle.com>
- b. Create an account if you don't already have one
- c. Click on SQL worksheet in the left-hand menu to open a new script
- d. Open the `students.sql` script available in Brightspace.
- e. Copy the script in the worksheet and run each command one at a time. Make sure you understand what is happening

02. Try out some SQL statements

- a. Insert a record for your own student information
- b. Query the student record that you just inserted
- c. Update your student record changing two of the attributes. These two updates should be done using the one update statement
- d. Create a table that contains Course Codes with the following attributes. You can decide the appropriate name of the table and the data types of each attribute

`COURSE_ID` (contains a unique identifier for the course)

`COURSE_CODE` (contains the course code e.g. TU256, TU059, TU060 ...)

`COURSE_DESCRIPTION` (contains a description/name of the course)

- e. Insert at least 4 records into the table created in 2-3-4 (feel free to make up course codes)
- f. Modify the table structure to contain a new attribute called `FULL_PART_TIME`. This attribute is to contain a value that indicates if the course is for full-time or part-time students.
- g. Update the records in course codes table to have the correct value for the `FULL_PART_TIME` attribute.
- h. Query the course codes table to verify that the data is correct.
- i. Write a query that joins the `STUDENT` table with the course codes table, and returns the following

`Student Name` (this should be one value that combines `FIRST_NAME` and `SURNAME`, separated by a space)

`DOB`

`COURSE_DESCRIPTION`

- j. Write a query that displays the following
`COURSE_DESCRIPTION` : a count of the number of students in each course.
You will need to use a `COUNT` function and a `GROUP BY` clause