

## Lab 1 – Week 1 (Getting Started)

DUE: Tuesday, May 14 2019, midnight

This week's lab gets you started, connected, and uses your first commands while learning the interface for SQL Developer and a few string formatting techniques.

### Getting Started

***Your submission will be a single text-based SQL file with the solutions provided.***

Create a new Worksheet in SQL Developer. Save the file as L01\_ID\_LASTNAME.sql

Your submission needs to be commented and include the question, the solutions, and the results. Please note the results should be commented lines (so the file still runs as submitted)

### Tasks

Hopefully, you downloaded demobld11 file and ran the script that will build the tables as outlined in the Week 0 document.

- Start by entering in the SQL Developer worksheet:
  - `SELECT * FROM EMPLOYEES;`
  - `SELECT * FROM DEPARTMENTS;`
  - `SELECT * FROM JOB_HISTORY;`
  - Which one of these tables appeared to be the widest? or longest? (Answer in commented text)
- If the following `SELECT` statement does NOT execute successfully, how would you fix it?  
(Answer in commented text)

```
SELECT last_name "LName", job_id "Job Title",  
       Hire Date "Job Start"  
FROM employees;
```

- There are THREE coding errors in this statement. Can you identify them?  
(Answer in commented text) Then, correct them and provide a working statement.  

```
SELECT employee_id, last name, commission_pct Emp Comm,  
FROM employees;
```
- What command would show the structure of the `LOCATIONS` table?  
(Answer in commented text)

Create a query to display the output shown below.

|    | City# | City                | Province with Country Code  |
|----|-------|---------------------|-----------------------------|
| 1  | 1000  | Roma                | IN THE IT                   |
| 2  | 1100  | Venice              | IN THE IT                   |
| 3  | 1200  | Tokyo               | Tokyo Prefecture IN THE JP  |
| 4  | 1300  | Hiroshima           | IN THE JP                   |
| 5  | 1400  | Southlake           | Texas IN THE US             |
| 6  | 1500  | South San Francisco | California IN THE US        |
| 7  | 1600  | South Brunswick     | New Jersey IN THE US        |
| 8  | 1700  | Seattle             | Washington IN THE US        |
| 9  | 1800  | Toronto             | Ontario IN THE CA           |
| 10 | 1900  | Whitehorse          | Yukon IN THE CA             |
| 11 | 2000  | Beijing             | IN THE CN                   |
| 12 | 2100  | Bombay              | Maharashtra IN THE IN       |
| 13 | 2200  | Sydney              | New South Wales IN THE AU   |
| 14 | 2300  | Singapore           | IN THE SG                   |
| 15 | 2400  | London              | IN THE UK                   |
| 16 | 2500  | Oxford              | Oxford IN THE UK            |
| 17 | 2600  | Stretford           | Manchester IN THE UK        |
| 18 | 2700  | Munich              | Bavaria IN THE DE           |
| 19 | 2800  | Sao Paulo           | Sao Paulo IN THE BR         |
| 20 | 2900  | Geneva              | Geneve IN THE CH            |
| 21 | 3000  | Bern                | BE IN THE CH                |
| 22 | 3100  | Utrecht             | Utrecht IN THE NL           |
| 23 | 3200  | Mexico City         | Distrito Federal, IN THE MX |

## Example Submission

```
-- *****
-- Name: Your Name
-- ID: #####
-- Date: The current date
-- Purpose: Lab 1 DBS301
-- *****
```

```
-- Question 1 - write a brief note about what the
question is asking
-- Q1 Solution --
```

```
SELECT * FROM TABLE;
```

```
-- Q2 Solution --
```