# Lab 7 – Week 9

# (Cursors/Loops/Composite Data Types)

## Submission

***Your submission will be a single text-based SQL file with appropriate header and commenting. Please ensure your file runs when the entire file is executed in SQL Developer.***

Create a new Worksheet in SQL Developer. Save the file as L07\_Group#.sql

## Your submission needs to be commented and include the question, the solutions.

In this Lab, you create PL/SQL blocks to perform the following tasks.

Besides checking all required exceptions, have the OTHER exception checked just in case any error occurs that has not been anticipated at the time you write the code.

## Tasks

1. Create a PL/SQL block to declare a cursor EMP\_CUR to select the employee’s name, salary, and hire date from the employee’s table. Process each row from the cursor, and if the salary is greater than 15,000 and the hire date is greater than 01-FEB-1988, display the employee’s name, salary, and hire date.
2. Create a PL/SQL block to retrieve the last name and department ID of each employee from the EMPLOYEES table for those employees whose EMPLOYEE\_ID is less than 114. From the values retrieved from the employees table, populate two PL/SQL tables, one to store the records of the employee last names and the other to store the records of their department IDs. Using a loop, retrieve the employee’s name information and the salary information from the PL/SQL tables and display it in the window, using DBMS\_OUTPUT.PUT\_LINE. Display these details for the first 15 employees in the PL/SQL tables.
3. a. Create a PL/SQL block that declares a cursor called DATE\_CUR. Pass a parameter of DATE data type to the cursor and print the details of all the employees who have joined after that date.

**SET SERVEROUTPUT ON**

**DEFINE P\_HIREDATE = 01-FEB-88**

Example Submission

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
-- Name: Group Member Name  
-- ID: #########

-- Name: Group Member Name  
-- ID: #########

-- Name: Group Member Name  
-- ID: #########  
-- Date: The current date  
-- Purpose: Lab 7 DBS311  
-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- Question 1 – write a brief note about what the question is asking  
-- Q1 SOLUTION –

-- Question 2 –

-- Q2 Solution –