# **BTD310- Lab 3**

Please work in **groups** to complete this lab. This lab is worth 2% of the total course grade and will be evaluated through your written submission, as well as the lab demo. During the lab demo, group members are randomly selected to present the answers to each of the lab questions. Group members not present during the lab demo will lose the demo mark.

Please submit the following files through Blackboard. Only one person must submit for the team.

* Lab3.sql must include a script including all the SQL commands for the following. Please write them in the specified order.
* Lab3.txt must be the output of the above script. Use the save button on top of the script results.

1. Create a new SQL worksheet in SQL Developer, save as **Lab3.sql**, and write SQL statements to do the following:
2. The employees can retire after 20 years (240 months) from their hire date. List the employees (id, last name, first name) and their retirement date (label the column), sorted from the earliest to the latest retirement.
   1. SELECT EMPLOYEE\_ID, LAST\_NAME, FIRST\_NAME, HIRE\_DATE AS "Retirement Date" FROM EMPLOYEES ORDER BY HIRE\_DATE;
3. Write a query that displays how many weeks are left from now to Christmas Day.
   1. SELECTto\_number(TO\_CHAR(TO\_DATE('25-DEC-18','DD-MON-YY'),'WW') ) - to\_number(TO\_CHAR(TO\_DATE('20-SEP-2018','DD-MON-YY'),'WW') ) + 1   
      AS weeks   
      FROM dual;
4. Write a query that changes any s (lower or upper case) in the first name of employees to $. List only those that their names changes.
   1. SELECT regexp\_replace(first\_name,'S','$',1,1) FROM employees;
5. List the employee names as (last name, first name) in a column labeled as “Employee names”. Pad the left side of the names with exactly 3 \*’s, and pad the right side with ‘-‘ to the length of 30.
   1. SELECT lpad(last\_name,3,'\*') || rpad(first\_name,30,'-') || (last\_name || ', ' || first\_name) AS "Employee names" FROM employees;
6. List the first names with this change applied: Replace any ‘e’ (lower or upper case) with ‘he’. However, make sure the first letter of names stay capitalized.
7. Add a comment before each answer to specify the question number. For example,

-- Question 3

1. Use SQL Developer to format your script.
2. Clear the script output. Then run your script (F5). Save the output as **Lab3.txt**.
3. Add this declaration on the top of your Lab3.txt file.

We, ------------(mention your names), declare that the attached assignment is our own work in accordance with the Seneca Academic Policy. No part of this assignment has been copied manually or electronically from any other source (including web sites) **or distributed to other students.**

1. Also, on top of Lab3.txt, specify what each member has done towards the completion of this work:

Name Task(s)

1-

2-

3-