	The University of the West Indies St. Augustine Department of Computing and Information Technology **COMP 2700 – Database Management Systems I** ORACLE LAB # 5 16 / 10 / 2013

PL / SQL

1) Write a PL/SQL block to do the following:

   i)   *Declaring local variables*

   Declare two variables, ***v_deptno*** and ***v_loc***, to hold values for the department number and location attributes of the Dept table.

   ii)   *Using local variables to store values from a table.*

   Select the department number and location values for the Sales department into these variables.

2) *Using a constant.*

   Declare a constant, ***v_Increase***, with a default value 500. Using the constant, upgrade the salaries of all managers. Verify your changes.

3) *Using IF statement.*

   Using the **IF** statement, change the manager of employee 7499 to employee 7782 if the manager of this employee is now 7698. Verify and commit your changes.

4) Add a **ReorderStatus** column to the Product table. The default value is 0.

5) Write PL/SQL code to create and activate a trigger on the Product table:
   i)   *Creating a trigger.*

   Create a trigger, **UpdateStatus**, which sets the ReorderStatus to 1 if the unit in stock is less than the minimum allowable level.

   ii)   *Activating a trigger.*

   View the data for product ORP55. Change the units in stock of product ORP55 to 5. Again, view the data for product ORP55.

   iii) Insert the new row ('CD123', 'CD Writer', 'CCS', 99.99, 4, 10, 'N', 8, 0) into the Product table. View the data for product CD123 to see the value of ReorderStatus.

6) *Creating a procedure, ProductSale.*

   Create a procedure, **ProductSale**, which would update the units in stock of a given product when a given quantity of that product is sold (do not do any error checking).

7) *Calling a procedure, ProductSale.*

   Use the procedure to record a sale of 2 units of product ORP55. View the data for product ORP55.

8) *Creating a procedure, ProductPurchase.*

   Create a procedure, **ProductPurchase**, which would update the units in stock of a given product when a given quantity of that product is purchased.

9) *Calling a procedure, ProductPurchase.*

   Use the procedure to record a purchase of 25 units of product ORP55. View the data for product ORP55.