**Assignment 4 – COMP214**

***Weight: 15% of final grade***

Create database back-end functionality for an application, for example and e-commerce solution, an insurance quotation calculator, etc.

**1**. **Deliverables**

**Script file**  (.sql file) which should contains all the commands to create the above tables, sequences, indexes, triggers, procedures and functions  when it is executed.

***Note****: Create a script to run samples of your functions, procedures and triggers, etc.*

**2.** **Contents of your Database: (to be included in the script file)**

            - *Tables (data, lookup, audit/log tables)*

– Minimum – 5 and Maximum 10. You can think and build these tables according to web application project (COMP229) or as an independent database project.

3 marks

            - *Sequences*

- You need to create at least one sequence and use it especially for those tables that are updated

2 marks

            - Indexes

                        - Search is common functionality performed on tables. You need to create few indexes

                          for those tables where search is performed heavily.

2 marks

            - Triggers

                        - For behind the scenes table entry/updating, you need to create at least 2 triggers

2 marks

            - Procedures

-- You need to define at least two procedures with using cursors, so carrying out common operations on database.

                            More info about them can be discussed in the class.

4 marks

- Functions

                -- You need to define at least one function so carrying out common operations on database.

2 marks

            More info about them can be discussed in the class.

***Note:****There should be minimum ten records (10 insert statements for data tables) and five records (for reference/lookup type tables). You should be populating your tables with meaningful data.*