**COMP 3610 LAB 0 exercise 2017-09-14**

**Part 1 Oracle 12c server and SQLDeveloper**

1. Obtain your user name from the list circulated in class. Log on to Oracle server using SQLDeveloper as client and check your account.

All user ids have ST followed by two digits, initial passwords are the same as user ids.

1. Change your password using GUI options or by running

**ALTER USER <id> IDENTIFIED BY <new password>**

**Remember your password.**

**Part 2**

1. Prepare data requirements for the PERSON class/entity (from lecture 1&2).

……. This is our first “warm up” lab so we will work on the data requirements together ☺

**Data model**

Question: *What data is required for each person?* How can we uniquely identify each PERSON? *What* ***information*** *is required?* ***What knowledge is required to understand the data?***

The following attributes will be stored for each person. Specify attribute name, purpose, type of data and type of data display, standards used, units, special formats, data integrity (list constraints):

The following attributes will be based on calculation (derived from existing data):

**Database physical model**

1. This is a simple exercise to start us with SQL. Please use SQL DDL to create a table (just one table) to store the data about each person.
2. Use SQL DML to insert data to the table. Use TO\_DATE (Oracle date/time conversion function) for inserting the DOB.

**Part 3**

1. Use help in SQL Developer and run SCRIPT to generate (create tables) in your account.

Use

**SELECT \***

**FROM <table name>;**

to display data and use GUI to see data.

1. **Create a conceptual data model** from an existing physical model (this is called reverse engineering). Draw an ERD (UML class diagram) using the existing physical model (note the primary keys and foreign keys in the tables) 🡪 foreign keys represent the connections (relationships) between tables (entities).