CSCI N311 Project 5 PL/SQL Basics (Variables and database interaction)

1. Create a table that will store a customized report that shows how many tables, views, indexes and users are in the database at a particular time. Use a PL/SQL block to retrieve and insert data. When the block runs, it will retrieve a count on those objects and insert the result into your report table, along with the time that row of report is inserted.

(40’)

1. Create a table that stores employee information (ID, first name, last name, email, password, salary). ID must be an integer auto generated through a sequence. Use a simple for loop to insert 500 rows of sample data, using random number generators and random string generators. All the values must be random, but satisfy certain patterns:
   1. First name and last name must be less than or equal to 10 characters long.
   2. Email must be less than 20 characters long, and must be a valid format, e.g. having a ‘@’ sign and a ‘.’ sign at the right position.
   3. Passwords must be more than 8 characters long and must contain characters and digits.
   4. Salary values must be between 0 and 100,000.

(60’)

Submit your sql file that contains your scripts to create tables and inserting data. No need to submit a WORD document.