CS 166: Lab1 Assignment
April 18, 2018

Execute the following steps:

1. Follow the instructions in PostgreSQL Manual and try to create the directory structure in the folder specified by the TA, initialize the database template and start the DBMS (You need to execute steps 1, 2, 3 and 4 from the PostgreSQL Quick Start Guide).

2. Create mydb Database (Step 5 in the manual)

3. Launch the PSQL terminal. This is the place where we can start creating the tables, performing SQL commands and other things. Execute this statement in the terminal:
    CREATE TABLE Students (SID numeric (9, 0), Name text, Grade float);
This statement will create a table in your database called Students. The table will have three columns ID, Name and Grade.

4. Execute this statement in the terminal:
    INSERT INTO Students VALUES (860507041, ' John Anderson ', 3.67);
This statement will create a record in the table Students for a new student with name John Anderson, SID 860507041 and GPA 3.67

5. Execute this statement in the terminal:
    INSERT INTO Students VALUES (860309067, 'Tom Kamber ', 3.12);
This statement will create a record in the table Students for a new student with name Tom Kamber, SID 860309041 and GPA 3.12

6. Execute this statement in the terminal:
    SELECT SID, Name, Grade FROM Students WHERE SID = 860507041;
This statement will retrieve all records from the table Students which satisfy the condition that the column SID have value 860507041.

7. Try to insert a new student in the table with name George Haggerty SID = 860704039 and GPA = 3.67

8. Try to retrieve all records from the table which have GPA = 3.67

9. Exit from the PSQL terminal (type \nq") and shutdown the database (Step 7 in the manual)

10. Turn in a single .sql file, containing all your SQL commands, and show the results it is producing using bulk SQL execution (Step 5 in the manual)