CS1555 Recitation 6

Objective: To practice SQL queries on PostgreSQL.

Before we start:

- Download the SQL script studentdb.sql through an SFTP client (such as FileZilla) from the machine "class3.cs.pitt.edu" at the directory:
    - `/afs/pitt.edu/home/r/a/raa88/public/studentdb.sql`

---

1. Find the address and phone number of the student whose student id is 123

---

2. List all the courses offered in 'Spring 21'.

---

3. List the student id and course number for every student who took a course in Fall 19 but has not received a grade yet.

---

4. List the sid(s) and gpa(s) of the students whose gpa(s) are greater than 3.7. List them in the descending order of the gpa(s).

_____

5. List the sid(s) of all the students and the number of courses they have taken.

    What if we want names too?

    How about another way?

_____

6. Now insert a tuple into the Student table:

    ```
    insert into student values (130, 'Peter', 1,'CS', '????');
    ```

    Then run the query 5 again. How can we include this new student in the result, with 0 as the number of classes he has taken?

_____

7. For each course a student has repeated, list the sid and course number.

_____

8. Assuming there is another table for outreach students who want to major in certificates:

```
CREATE TABLE student_outreach (
        sid   int not null,
        name    varchar(15) not null,
        class   int,
        major   varchar (10),
        ssn     varchar (16) not null,
        CONSTRAINT PK_OUTREACH PRIMARY KEY(sid)
);
```

Insert the following student in the outreach table:

```
insert into student_outreach values ('130', 'Zach', 1,'CS',
'abcd');
```

List all the students in your organization?