**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

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

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1. List all the courses offered in ‘Spring 21’.

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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.

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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).

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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?

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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?

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

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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?