Week 4 Solutions

- Find ids of the instructors who teach in the Fall semester and year 2009.

```
select id from teaches where semester='Fall' and year=2009;
```

- Find unique names of the instructors who teach in the Fall Semester and year 2009 and make more than $80000.

```
select distinct name from instructor natural join teaches where
semester='Fall' and year = 2009 and salary>80000;
```

- Find pair of courses that have the same pre-requisites.

```
select a.course_id, b.course_id from prereq a join prereq b on
a.course_id!=b.course_id and a.prereq_id = b.prereq_id;
```

- Return the number of courses in the Biology department.

```
select count(course_id) from course where dept_name = 'Biology';
```

- Find the instructor name and the titles of the courses they teach.

```
select name, title from instructor natural join teaches natural join
course;
```