

CS313, Lab – 4

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Q.1]

Query:

```
SELECT DISTINCT course.course_id, course.title, instructor.ID, instructor.name FROM course,
instructor, teaches WHERE instructor.dept_name = 'Comp. Sci.' AND instructor.ID = teaches.ID AND
course.dept_name = 'Civil Eng.' AND teaches.year = 2009 AND teaches.course_id = course.course_id
order by instructor.name ASC;
```

Output:

```
university=# SELECT DISTINCT course.course_id, course.title, instructor.ID, instructor.name FROM course, instructor, teaches WHERE instructor.dept_name = 'Comp. Sci.' AND instructor.ID = teaches.ID AND course.dept_name = 'Civil Eng.' AND teaches.year = 2009 AND teaches.course_id = course.course_id order by instructor.name ASC;
 course_id | title | id | name
-----
 960      | Tort Law | 3335 | Bourrier
(1 row)
```

Q.2]

Query:

```
WITH selection as (SELECT takes.sec_id, takes.course_id, count(ID) as enrolls FROM takes WHERE takes.year = '2009' AND takes.semester = 'Fall' GROUP BY takes.sec_id , takes.course_id ORDER BY count(ID) DESC) SELECT sec_id, course_id FROM selection WHERE enrolls = (SELECT max(enrolls) from selection);
```

Output:

```
university=# WITH selection as (SELECT takes.sec_id, takes.course_id, count(ID) as enrolls FROM takes WHERE takes.year = '2009' AND takes.semester = 'Fall' GROUP BY takes.sec_id , takes.course_id ORDER BY count(ID) DESC) SELECT sec_id, course_id FROM selection WHERE enrolls = (SELECT max(enrolls) from selection);
 sec_id | course_id
-----
 1      | 105
(1 row)
```