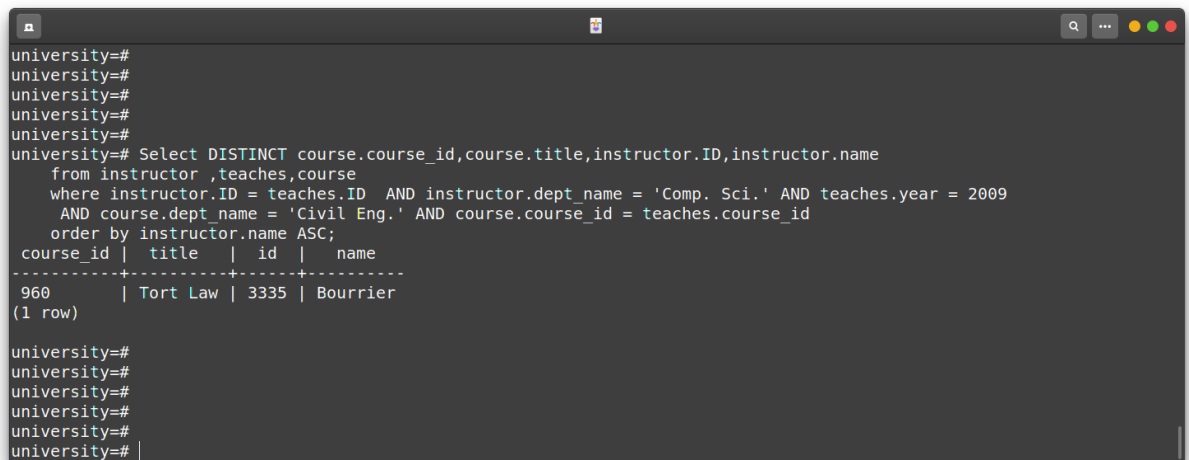


CS313 - Lab 4

Q.1

8. a) Find the course id, title, instructor id and name of those instructors who are from CSE department but are teaching a course of Civil department in the year 2009. Arrange results in ascending order of instructor names.

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



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

university=#
university=#
university=#
university=#
university=#
university=#
```

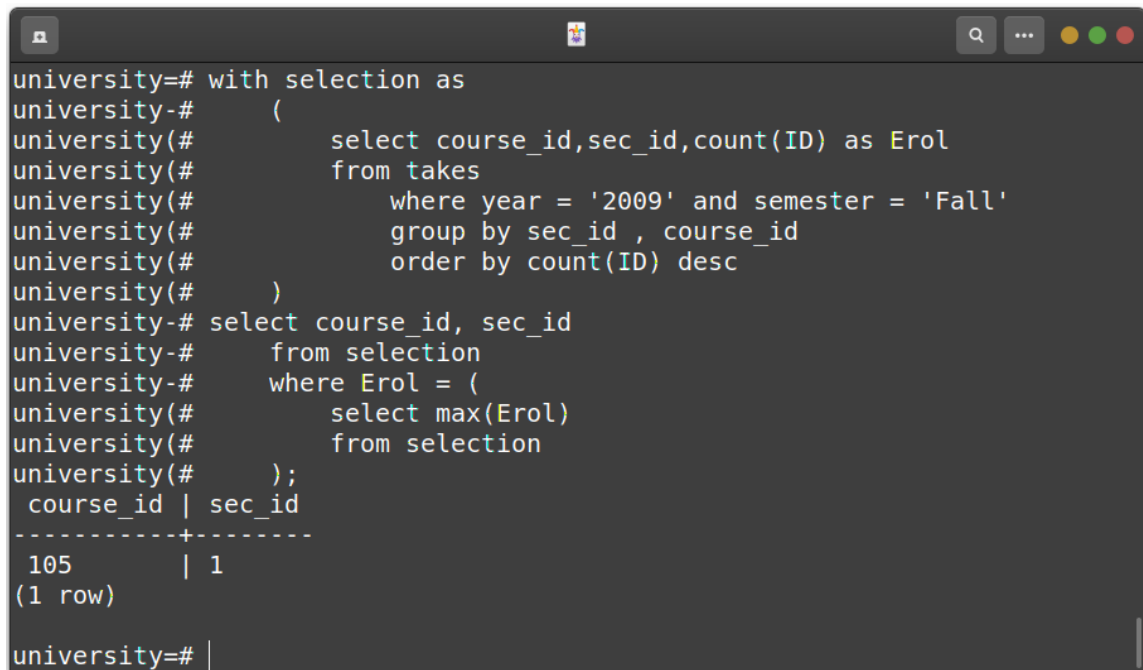
Output :

Course_id	title	id	name
960	Tort Law	3335	Bourrier

(1 row)

Q.2 Find the sections that had the maximum enrollment in Fall 2009. The result should display course_id and sec_id.

```
with selection as
(
    select course_id, sec_id, count(ID) as Erol
    from takes
    where year = '2009' and semester = 'Fall'
    group by sec_id , course_id
    order by count(ID) desc
)
select course_id, sec_id
from selection
where Erol = (
    select max(Erol)
    from selection
);
```



```
university=# with selection as
university-# (
university-#     select course_id, sec_id, count(ID) as Erol
university-#     from takes
university-#     where year = '2009' and semester = 'Fall'
university-#     group by sec_id , course_id
university-#     order by count(ID) desc
university-# )
university-# select course_id, sec_id
university-#     from selection
university-#     where Erol = (
university-#         select max(Erol)
university-#         from selection
university-#     );
university-# course_id | sec_id
-----+-----
    105      |    1
(1 row)

university=# |
```

Output :

Course_id	sec_id
105	1

(1 row)