[COSE371 Database] Lab - SQL 1

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Exercise 1.

practice1# _

```
practice1=# select title from course where dept_name='Comp. Sci.' and credits=3;
title
 Robotics
Image Processing
Database System Concepts
(3개 행)
practice1=#
b.
practice1=# select distinct takes.id from takes, teaches, instructor where (takes.course_id, takes.sec_id, takes.semester, takes.year)=(teaches.course_id, teaches.sec_id, teaches.semester, teaches.year) and (teaches.id=instructor.id) and instructor.name='Srinivasan';
id
12345
45678
54321
76543
98765
(6개 행)
practice1=#
C.
practice1=# select max(salary) from instructor;
    max
95000.00
(1개 행)
practice1=# _
d.
SQL Shell (psql)
                                                                                                                                                        practice1=# select course_id, sec_id, count(id) from takes where semester='Fall' and year=2017 group by course_id, se
 c_id;
course_id | sec_id | count
 CS-101
CS-347
PHY-101
(3개 행)
```

Exercise 2

a.

```
practice1=# select sum(points * credits) from takes, course, grade_points where id='12345' and takes.course_id=course.course_id and takes.grade=grade_points.grade;
sum
_____
48.0
(17H 행)
practice1=# _
```

b.

C.

```
SQL Shell (psal)
                                                                                                                         practice1=# select id, sum(points * credits) / sum(credits) as GPA from takes, course, grade_points
where takes.course_id=course.course_id and takes.grade=grade_points.grade group by id;
                    gpa
          76653
 19991
76543
 54321
           44553
 55739
 45678
           2.0181818181818182
           3.4285714285714286
4.00000000000000000000
 12345
 98988
 98765
           2.2571428571428571
 00128
           3.8714285714285714
 23121
12개
           2.3000000000000000
```

d.