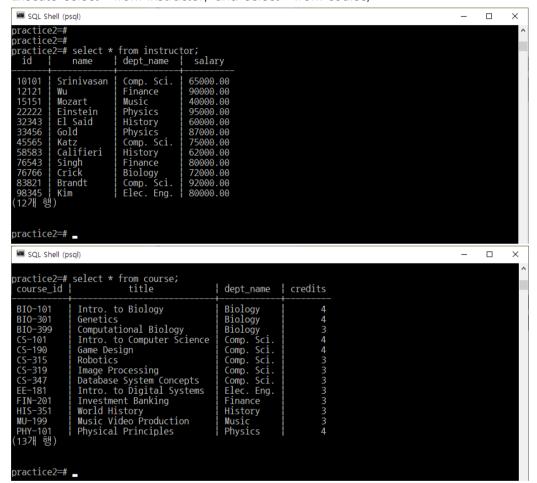
[COSE371 Database] Lab – SQL 2

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Exercise 1.

a. Execute 'select * from instructor;' and 'select * from course;'



b. Increase the salary of each instructor in the Comp. Sci. department by 10%.

c. Delete all courses that have never been offered (i.e., do not occur in the section relation).

```
■ SQL Shell (psql)

practice2=#

practice2=# delete from course

practice2-# where course_id not in (select course_id from section);

DELETE 1

practice2=#
```

d. Insert every student whose tot_cred attribute is greater than 100 as an instructor in the same department, with a salary of \$10,000.

```
□ SQL Shell (psql)

practice2=#

practice2=# insert into instructor (

practice2(# select id, name, dept_name, 10000 from student

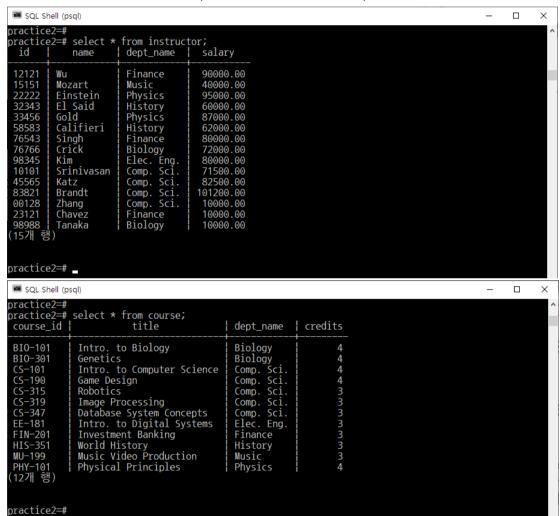
practice2(# where tot_cred > 100

practice2(# );

INSERT 0 3

practice2=#
```

e. Execute 'select * from instructor;' and 'select * from course;'



Exercise 2.

a. Find the ID, name, city, and street of each employee who works for "First Bank Corporation".

```
practice2=#
practice2=# select employee.id, person_name, city, street from employee, works
practice2-# where employee.id=works.id and company_name='First Bank Corporation';
id | person_name | city | street
| 12345 | Adams | Pittsfield | Spring
| 22222 | Curry | Rye | North
| 77777 | Jones | Harrison | Main
| practice2=#
```

b. Find the ID, name, city, and street of each employee who works for "First Bank Corporation" and earns more than \$10000.

c. Find the ID of each employee who does not work for "First Bank Corporation".

d. Find the ID of each employee who earns more than every employee of "Small Bank Corporation".

```
practice2=#
practice2=#
practice2=# with max_salary(value) as
practice2-# (select max(salary) from works
practice2(# where company_name='Small Bank Corporation')
practice2-# select employee.id from employee, works, max_salary
practice2-# where employee.id=works.id and works.salary > max_salary.value;
id
-----
11111
22222
33333
44444
555555
99999
54321
(77川 행)

practice2=# ■
```

e. Find the name of each company that is in the city of "Small Bank Corporation" is located.

f. Find the name of the company that has the most employees (or companies, in the case where there is a tie for the most).

g. Find the name of each company whose employees earn a higher salary, on average, than the average salary at "First Bank Corporation".