

1.b

```

choijaewon — psql ◀ runp
[practice2=# update instructor
[practice2=# set salary = salary * 1.10
[practice2=# where dept_name = 'Comp. Sci.';
UPDATE 3

```

1.c

```

choijaewon — psql ◀ runpsql.sh — 80x24
[practice2=# delete from course
[practice2=# where course.course_id not in(
[practice2=# select course_id
[practice2=# from section);
[DELETE 1

```

1.d

```

choijaewon — psql ◀ runpsql.sh — 123x41
^
[practice2=# insert into instructor
[practice2=# select ID, name, dept_name, 10000
[practice2=# from student
[practice2=# where tot_cred > 100;
INSERT 0 3

```

```

choijaewon — psql ◀ runpsql.sh — 127x21
[practice2=# select * from instructor;

```

| id | name | dept_name | salary |
|-------|------------|------------|-----------|
| 12121 | Wu | Finance | 90000.00 |
| 15151 | Mozart | Music | 40000.00 |
| 22222 | Einstein | Physics | 95000.00 |
| 32343 | El Said | History | 60000.00 |
| 33456 | Gold | Physics | 87000.00 |
| 58583 | Califieri | History | 62000.00 |
| 76543 | Singh | Finance | 80000.00 |
| 76766 | Crick | Biology | 72000.00 |
| 98345 | Kim | Elec. Eng. | 80000.00 |
| 10101 | Srinivasan | Comp. Sci. | 71500.00 |
| 45565 | Katz | Comp. Sci. | 82500.00 |
| 83821 | Brandt | Comp. Sci. | 101200.00 |
| 00128 | Zhang | Comp. Sci. | 10000.00 |
| 23121 | Chavez | Finance | 10000.00 |
| 98988 | Tanaka | Biology | 10000.00 |

```

(15 rows)

```

2017320114_최재원_실습과제2

1.e

```

choijaewon — psql - runpsql.sh — 123x41
practice2=# where tot_cred > 100;
INSERT 0 3
practice2=# select * from instructor
practice2=# ;
   id |   name   | dept_name | salary
-----+-----+-----+-----
 12121 | Wu       | Finance  | 90000.00
 15151 | Mozart   | Music    | 40000.00
 22222 | Einstein | Physics  | 95000.00
 32343 | El Said  | History  | 60000.00
 33456 | Gold     | Physics  | 87000.00
 58583 | Califieri | History  | 62000.00
 76543 | Singh    | Finance  | 80000.00
 76766 | Crick    | Biology  | 72000.00
 98345 | Kim      | Elec. Eng. | 80000.00
10101 | Srinivasan | Comp. Sci. | 71500.00
 45565 | Katz     | Comp. Sci. | 82500.00
 83821 | Brandt   | Comp. Sci. | 101200.00
 00128 | Zhang    | Comp. Sci. | 10000.00
 23121 | Chavez   | Finance  | 10000.00
 98988 | Tanaka   | Biology  | 10000.00
(15 rows)

practice2=# select * from course;
 course_id |   title   | dept_name | credits
-----+-----+-----+-----
 BIO-101   | Intro. to Biology | Biology   | 4
 BIO-301   | Genetics        | Biology   | 4
 CS-101    | Intro. to Computer Science | Comp. Sci. | 4
 CS-190    | Game Design     | Comp. Sci. | 4
 CS-315    | Robotics        | Comp. Sci. | 3
 CS-319    | Image Processing | Comp. Sci. | 3
 CS-347    | Database System Concepts | Comp. Sci. | 3
 EE-181    | Intro. to Digital Systems | Elec. Eng. | 3
 FIN-201   | Investment Banking | Finance   | 3
 HIS-351   | World History   | History   | 3
 MU-199    | Music Video Production | Music     | 3
 PHY-101   | Physical Principles | Physics   | 4
(12 rows)

practice2=#

```

2.a

```

choijaewon — psql - runpsql.sh — 123x22
^
practice2=# select employee.ID, employee.person_name, employee.city, employee.street
from employee, works, company
where employee.ID = works.ID
and works.company_name = company.company_name
and company.company_name = 'First Bank Corporation';
   id | person_name |   city   | street
-----+-----+-----+-----
 12345 | Adams       | Pittsfield | Spring
 22222 | Curry       | Rye       | North
 77777 | Jones       | Harrison  | Main
(3 rows)

```

2.b

```

choijaewon — psql - runpsql.sh — 123x22
practice2=# select employee.ID, employee.person_name, employee.city, employee.street
practice2=# from employee, works, company
practice2=# where employee.ID = works.ID
practice2=# and works.company_name = company.company_name
practice2=# and company.company_name = 'First Bank Corporation'
practice2=# and works.salary > 10000;
   id | person_name |   city   | street
-----+-----+-----+-----
 12345 | Adams       | Pittsfield | Spring
 22222 | Curry       | Rye       | North
(2 rows)

```

2.c

```

choijaewon — psql ◀ runpsql.sh — 127x23

practice2=# select works.ID
from works, company
where works.company_name = company.company_name
and ID not in (
select ID
from works
where company_name = 'First Bank Corporation');
 id
-----
11111
33333
44444
55555
66666
88888
99999
00000
54321
(9 rows)

```

2.d

```

choijaewon — psql ◀ runpsql.sh — 127x23

practice2=# select ID
practice2=# from works
practice2=# where salary > all (
practice2=# select salary
practice2=# from works
practice2=# where company_name = 'Small Bank Corporation');
 id
-----
11111
22222
33333
44444
55555
99999
54321
(7 rows)

```

2.e

```

choijaewon — psql ◀ runpsql.sh — 127x35

practice2=# select company.company_name
from company
where city = (
select city
from company
where company_name = 'Small Bank Corporation');
 company_name
-----
First Bank Corporation
Small Bank Corporation
(2 rows)

```

2.f

```

choijaewon — psql ◀ runpsql.sh — 127x35

practice2=# select works.company_name
practice2=# from works
practice2=# group by company_name
practice2=# having count(distinct ID) >= all
practice2=# (select count(distinct ID)
practice2=# from works
practice2=# group by company_name);
 company_name
-----
Big Bank Corporation
(1 row)

```

2.g

```

choijaewon — psql ◀ runpsql.sh — 127x31

practice2=# select company_name
practice2=# from works
practice2=# group by company_name
practice2=# having avg(salary) > (select avg(salary)
practice2=# from works
practice2=# where company_name = 'First Bank Corporation');
 company_name
-----
Second Bank Corporation
Big Bank Corporation
(2 rows)

```