

```
select * from instructor;
```

```
practice2=# select * from instructor;
 id | name      | dept_name | salary
-----+-----+-----+-----
10101 | Srinivasan | Comp. Sci. | 65000.00
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
45565 | Katz       | Comp. Sci. | 75000.00
58583 | Califieri  | History   | 62000.00
76543 | Singh      | Finance   | 80000.00
76766 | Crick      | Biology   | 72000.00
83821 | Brandt     | Comp. Sci. | 92000.00
98345 | Kim        | Elec. Eng. | 80000.00
(12 rows)
```

```
select * from course;
```

```
practice2=# select * from course;
course_id | title                                | dept_name | credits
-----+-----+-----+-----
BI0-101   | Intro. to Biology                   | Biology   | 4
BI0-301   | Genetics                           | Biology   | 4
BI0-399   | Computational Biology               | Biology   | 3
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
(13 rows)
```

```
update instructor
set salary = salary * 1.1
where dept_name = 'Comp. Sci.';
```

```
practice2=# update instructor
set salary = salary * 1.1
where dept_name = 'Comp. Sci.'
practice2=# ;
UPDATE 3
```

```
delete from course
where course_id not in (
    select course_id
    from section
);
```

```
practice2=# delete from course
where course_id not in (
    select course_id
    from section
);
DELETE 1
```

```
insert into instructor
select id, name, dept_name, 10000
from student
where tot_cred > 100;
```

```
practice2=# insert into instructor
select id, name, dept_name, 10000
from student
where tot_cred > 100;
INSERT 0 3
```

```
select * from instructor;
```

```
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)

```
select * from course;
```

```
practice2=# select * from course;
```

course_id	title	dept_name	credits
BI0-101	Intro. to Biology	Biology	4
BI0-301	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)

```
select id, person_name, city, street
from employee natural join works
where company_name = 'First Bank Corporation';
```

```
select id, person_name, city, street
from employee
where id in (
    select id from works
```

```

        where company_name = 'First Bank Corporation'
    );

```

```

practice2=# select id, person_name, city, street
from employee
where id in (
    select id from works
    where company_name = 'First Bank Corporation'
);

```

id	person_name	city	street
12345	Adams	Pittsfield	Spring
22222	Curry	Rye	North
77777	Jones	Harrison	Main

(3 rows)

```

practice2=# select id, person_name, city, street
from employee natural join works
where company_name = 'First Bank Corporation';

```

id	person_name	city	street
12345	Adams	Pittsfield	Spring
22222	Curry	Rye	North
77777	Jones	Harrison	Main

(3 rows)

```

select id, person_name, city, street
from employee natural join works
where company_name = 'First Bank Corporation' and salary > 10000;

```

```

practice2=# select id, person_name, city, street
from employee natural join works
where company_name = 'First Bank Corporation' and salary > 10000;

```

id	person_name	city	street
12345	Adams	Pittsfield	Spring
22222	Curry	Rye	North

(2 rows)

```

select id
from employee
where id not in (
    select id
    from works
    where company_name = 'First Bank Corporation'
);

```

```
select id
from works
where company_name <> 'First Bank Corporation';
```

```
practice2=# select id
from employee
where 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)
```

```
select id
from works
where salary > (select max(salary)
                from works
                where company_name = 'Small Bank Corporation');
```

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

```
select company_name
from company
where city in (select city
               from company
               where company_name = 'Small Bank Corporation');
```

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

```
select company_name
from works
group by company_name
having count(id) >= all (select count(id)
                        from works
                        group by company_name);
```

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

```
select company_name
from works
group by company_name
having avg(salary) > (select avg(salary)
                     from works
                     where company_name = 'First Bank Corporation');
```

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