```
create table instructor (
ID char(5),
name varchar(20) not null,
dept name varchar(20),
salary numeric(8,2)
);
INSERT INTO instructor (ID, name, dept_name, salary)
VALUES ('2013331050', 'Jakirul Islam', 'EEE', '30000');
INSERT INTO instructor (ID, name, dept_name, salary)
VALUES ('2013331060', 'Khairul Islam', 'CSE', '40000');
INSERT INTO instructor (ID, name, dept_name, salary)
VALUES ('2013331070', 'Safikul Islam', 'BBA', '50000');
INSERT INTO instructor (ID, name, dept_name, salary)
VALUES ('2013331048', 'Ashikul Islam', 'CSE', '60000');
SELECT * FROM instructor;
SELECT salary FROM instructor;
SELECT salary, dept_name FROM instructor;
select distinct dept name from instructor;
select all dept_name from instructor;
select '437';
select '437' as FOO;
select ID, name, salary/12 from instructor;
select ID, name, salary/12 as monthly_salary;
select name from instructor where dept name = 'CSE';
select name from instructor where dept name = 'CSE' and salary > 40000;
select name from instructor where name like '%kul%';
create table teaches (
ID char(5),
course_id varchar(20),
sec_id char(20),
semester varchar(20),
year char(5)
);
```

INSERT INTO teaches (ID, course\_id, sec\_id,semester, year)

```
VALUES ('2013331048', 'CSE-123', '1', 'Fall', '2020');
INSERT INTO teaches (ID, course_id, sec_id,semester, year)
VALUES ('2013331050', 'CSE-323', '1', 'Fall', '2019');
INSERT INTO teaches (ID, course_id, sec_id, semester, year)
VALUES ('2013331060', 'CSE-523', '1', 'Spring', '2018');
INSERT INTO teaches (ID, course_id, sec_id, semester, year)
VALUES ('2013331090', 'CSE-123', '1', 'Autumn', '2030');
select name, course_id
from instructor, teaches
where instructor.ID = teaches.ID
select name, course_id
from instructor, teaches
where instructor.ID = teaches.ID and instructor. dept_name = 'CSE';
select distinct T.name from instructor as T, instructor as S where T.salary > S.salary and
S.dept_name = 'CSE';
```

select distinct name from instructor order by name

select distinct name from instructor order by dept\_name
select distinct name from instructor order by name asc
select distinct name from instructor order by name desc
select distinct name from instructor order by dept\_name, name
select name from instructor where salary between 40000 and 60000
select name, course\_id from instructor, teaches where (instructor.ID, dept\_name) = (teaches.ID, 'CSE');

select course\_id from teaches where semester = 'Fall' and year = '2019' union

select course\_id from teaches where semester = 'Spring' and year = '2018';

select course\_id from teaches where semester = 'Fall' and year = '2019' intersect

select course\_id from teaches where semester = 'Spring' and year = '2018';

select course\_id from teaches where semester = 'Fall' and year = '2019' except

select course\_id from teaches where semester = 'Spring' and year = '2018';

select distinct T.salary
from instructor as T, instructor as S
where T.salary < S.salary</pre>

select distinct salary

from instructor

select distinct salary

from instructor

EXCEPT

select distinct T.salary

from instructor as T, instructor as S

where T.salary < S.salary

from instructor
where salary is null
SELECT MAX(salary) FROM instructor;
SELECT MIN(salary) FROM instructor;

SELECT AVG(salary) FROM instructor; SELECT SUM(salary) FROM instructor; SELECT count(salary) FROM instructor;

select dept\_name, sum (salary) as avg\_salary from instructor group by dept\_name;

select dept\_name, avg (salary) from instructor

group by dept\_name having avg (salary) > 42000;

select distinct course\_id from teaches where semester = 'Fall' and year= '2019' AND course\_id in (select course\_id from teaches where semester = 'Spring' and year= '2018');

select distinct course\_id from teaches where semester = 'Fall' and year= '2019' AND course\_id not in (select course\_id from teaches where semester = 'Spring' and year= '2018');

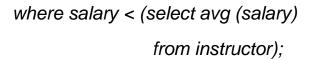
select distinct T.name from instructor as T, instructor as S where T.salary > S.salary and S.dept\_name = 'CSE';

select dept\_name, avg\_salary from (select dept\_name, avg (salary) as avg\_salary from instructor group by dept\_name) where avg\_salary > 42000;

delete from instructor

delete from instructor where dept\_name='BBA'

delete from instructor



insert into teaches instructor

select ID, name, dept\_name, 0,0 from

update instructor set salary = 100000 where salary > 40000;

update instructor set salary = case when salary <= 100000 then salary \* 1.05 else salary \* 1.03 end