Consider an Employee table

Employee(emp_no,emp_name,salary,city,dept_id)
Department(dept_id,dept_name)

1) Write a SQL query to find department name wise max salary

```
select d.dept_name,max(salary) from Employee e,Department d
where e.dept_id=d.dept_id group by d.dept_name;
                OR
select d.dept_name,max(salary) from Employee e JOIN Department d
ON e.dept_id=d.dept_id group by d.dept_name;
```

2) Write a a SQL query to find department name wise min salary

```
select d.dept_name,min(salary) from Employee e,Department d
where e.dept_id=d.dept_id group by d.dept_name

     OR
select d.dept_name,min(salary) from Employee e JOIN Department d
ON e.dept_id=d.dept_id group by d.dept_name;
```

3) Write a SQL query to find department name wise sum of salary

```
select d.dept_name,sum(salary) from Employee e,Department d
where e.dept_id=d.dept_id group by d.dept_name;

     OR

select d.dept_name,sum(salary) from Employee e JOIN Department d
ON e.dept_id=d.dept_id group by d.dept_name;
```

4) Write a SQL query to find department name wise avg of salary

```
select d.dept_name,avg(salary) from Employee e,Department d
where e.dept_id=d.dept_id group by d.dept_name;
```

OR

```
select d.dept_name,avg(salary) from Employee e JOIN Department d
ON e.dept_id=d.dept_id group by d.dept_name;
```

5) Write a SQL query to find department name wise number of Employee.

```
select d.dept_name,count(emp_no) from Employee e,Department d
where e.dept_id=d.dept_id group by d.dept_name;
```

OR

```
select d.dept_name,count(emp_no) from Employee e JOIN Department d
ON e.dept_id=d.dept_id group by d.dept_name;
```

6) write an SQL query to find department name wise sub-total and grand total of salary of Employee

```
select dept_name,sum(salary) from Employee e JOIN Department d
ON d.dept_id=e.dept_id group by Rollup(dept_name);
```

7) set city value to null for employee no 3

```
update Employee set city=null where emp_no=3;
```

8) write sql query to find duplicate records of employee number

```
select emp_no,count(emp_no) from Employee
having count(emp_no)>1 group by emp_no;
```

10) Write sql query to find highest salary

  Select max(salary) from Employee;

11) Write sql query to find second highest salary from Employee table

   Select max(salary) from Employee where
   salary NOT IN(Select max(salary) from Employee);

12) Write sql query to find n th highest salary from Employee table

   select * from (select emp_no,first_name,salary,dense_rank() over(order by salary desc) r
               from Employee) where r=2

                Based on requirment change the value