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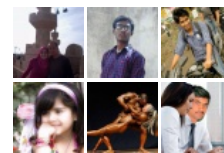
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Tricky SQL Queries

SQL Queries

Find the 3rd MAX salary in the emp table.

```
select distinct sal from emp e1 where 3 = (select count(distinct sal) from emp e2 where e1.sal <= e2.sal);
```

Find the 3rd MIN salary in the emp table.

```
select distinct sal from emp e1 where 3 = (select count(distinct sal) from emp e2 where e1.sal >= e2.sal);
```

Select FIRST n records from a table.

```
select * from emp where rownum <= &n;
```

Select LAST n records from a table

```
select * from emp minus select * from emp where rownum <= (select count(*) - &n from emp);
```

List dept no., Dept name for all the departments in which there are no employees in the department.

```
select * from dept where deptno not in (select deptno from emp);
alternate solution: select * from dept a where not exists (select * from emp b where a.deptno = b.deptno);
altertnate solution: select empno,ename,b.deptno,dname from emp a, dept b where a.deptno(+) = b.deptno and empno is null;
```

How to get 3 Max salaries ?

```
select distinct sal from emp a where 3 >= (select count(distinct sal) from emp b where a.sal <= b.sal) order by a.sal desc;
```

How to get 3 Min salaries ?

```
select distinct sal from emp a where 3 >= (select count(distinct sal) from emp b where a.sal >= b.sal);
```

How to get nth max salaries ?

```
select distinct hiredate from emp a where &n = (select count(distinct sal) from emp b where a.sal >= b.sal);
```

Select DISTINCT RECORDS from emp table.

```
select * from emp a where rowid = (select max(rowid) from emp b where a.empno=b.empno);
```

How to delete duplicate rows in a table?

```
delete from emp a where rowid != (select max(rowid) from emp b where a.empno=b.empno);
```

Count of number of employees in department wise.

```
select count(EMPNO), b.deptno, dname from emp a, dept b where a.deptno(+) = b.deptno group by b.deptno, dname;
```

Suppose there is annual salary information provided by emp table. How to fetch monthly salary of each and every employee?

```
select ename, sal/12 as monthllysal from emp;
```

Select all record from emp table where deptno =10 or 40.

```
select * from emp where deptno=30 or deptno=10;
```

Select all record from emp table where deptno=30 and sal>1500.

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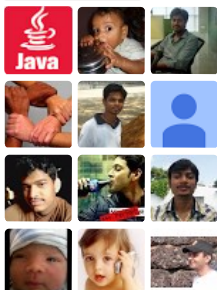
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```
select * from emp where deptno=30 and sal>1500;
♦ Select all record from emp where job not in SALESMAN or CLERK.

select * from emp where job not in ('SALESMAN','CLERK');
♦ Select all record from emp where ename in 'BLAKE','SCOTT','KING'and'FORD'.

select * from emp where ename in('JONES','BLAKE','SCOTT','KING','FORD');
♦ Select all records where ename starts with 'S' and its lenth is 6 char.

select * from emp where ename like 'S_';
♦ Select all records where ename may be any no of character but it should end with 'R'.

select * from emp where ename like '%R';
♦ Count MGR and their salary in emp table.

select count(MGR),count(sal) from emp;

♦ In emp table add comm+sal as total sal .

select ename,(sal+nvl(comm,0)) as totalsal from emp;
♦ Select any salary <3000 from emp table.

select * from emp where sal> any(select sal from emp where sal<3000);
♦ Select all salary <3000 from emp table.

select * from emp where sal> all(select sal from emp where sal<3000);
♦ Select all the employee group by deptno and sal in descending order.

select ename,deptno,sal from emp order by deptno,sal desc;
♦ How can I create an empty table emp1 with same structure as emp?

Create table emp1 as select * from emp where 1=2;
♦ How to retrive record where sal between 1000 to 2000?

Select * from emp where sal>=1000 And sal<2000
♦ Select all records where dept no of both emp and dept table matches.

select * from emp where exists(select * from dept where emp.deptno=dept.deptno)
♦ If there are two tables emp1 and emp2, and both have common record. How can I fetch all the recods but common records only once?

(Select * from emp) Union (Select * from emp1)
♦ How to fetch only common records from two tables emp and emp1?

(Select * from emp) Intersect (Select * from emp1)
♦ How can I retrive all records of emp1 those should not present in emp2?

(Select * from emp) Minus (Select * from emp1)
♦ Count the totalsa deptno wise where more than 2 employees exist.

SELECT deptno, sum(sal) As totalsal
FROM emp GROUP BY deptno HAVING COUNT(empno) > 2
```

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