create table emp (

eno number,

ename varchar(20),

designation varchar(20),

sal number,

mgr int,

deptno number,

primary key(eno)

);

create table dept (

deptname varchar(20),

loc varchar(20),

deptno number primary key

);

insert into dept values ('sales','mumbai',10);

insert into dept values ('hr','delhi',20);

insert into dept values ('accounts','chennai',30);

insert into dept values ('production','bangalore',40);

insert into emp values (1,'aaa','salesman',7000,2,10);

insert into emp values (2,'bbb','mgr',17000,3,10);

insert into emp values (3,'ccc','president',40000,null,30);

insert into emp values (4,'ddd','clerk',5000,5,20);

insert into emp values (5,'eee','mgr',20000,3,20);

**Join**

\***In which location employee aaa work**

select loc from dept where deptno=(select deptno from emp where ename='aaa');

\***cartesian product**

select eno,ename,loc,emp.deptno,dept.deptno from emp,dept

\***List employee along with their location**

select ename,loc from emp,dept where emp.deptno=dept.deptno;

\***List name,salary and dept name of all employees**

select ename,sal,deptname from emp,dept where dept.deptno=emp.deptno

\***we can use alias name also like below**

select ename,sal,deptname from emp e,dept d where d.deptno=e.deptno

\***List name and location of highest salaried employees**

select ename,loc from emp e,dept d where e.deptno=d.deptno and sal=(select max(sal) from emp)

\***per job how many employees are from mumbai**

select designation,count(\*) from emp,dept where emp.deptno=dept.deptno and loc='mumbai' group by designation

\***per location how many employees are present**

select loc,count(\*) from emp,dept where emp.deptno=dept.deptno group by loc