# WEEK-6

**TO DO:**

**1) Using Scheme diagram, Create tables by properly specifying the primary keys and the foreign keys.**

```
create database vaishnavi_employee;
use vaishnavi_employee;
create table vaishnavi_employee.project(
pno int,
ploc varchar(40),
pname varchar(40),
PRIMARY KEY(pno)
);
create table vaishnavi_employee.dept(
deptno int,
dname varchar(40),
dloc varchar(40),
PRIMARY KEY(deptno)
);
create table vaishnavi_employee.employee(
empno int,
ename varchar(40),
mgr_no int,
hiredate date,
sal int,
deptno int,
primary key (empno),
foreign key (deptno) references dept(deptno)
);
create table vaishnavi_employee.incentives(
```

```
empno int,
incentive_date date,
incentive_amount int,
primary key(incentive_date),
foreign key (empno) references employee(empno)
);
create table vaishnavi_employee.assigned_to(
empno int,

pno int,
job_role varchar(50),
foreign key (pno) references project(pno),
foreign key (empno) references employee(empno)
);
```

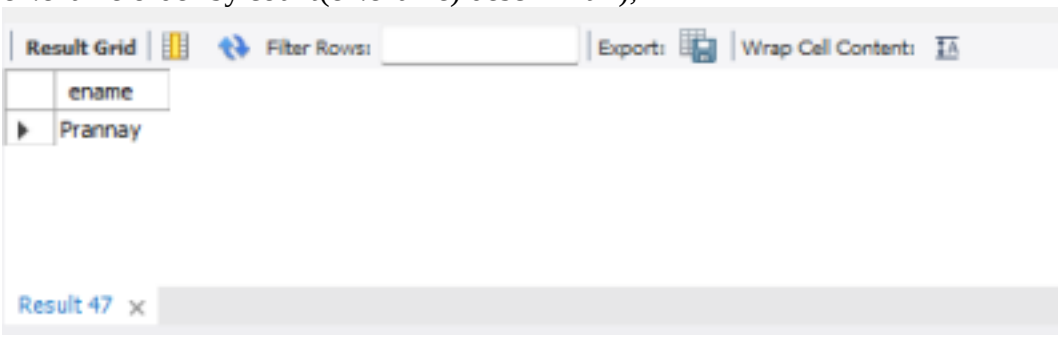
**2) Enter greater than five tuples for each table.**

```
insert into project values(1,"Bengaluru","Syntax");
insert into project values(2,"Gujurat","Rolex");
insert into project values(3,"Mysuru","Hybrid");
insert into project values(4,"Hyderabad,","Synergy");
insert into project values(5,"Mumbai","Mercury");
insert into project values(6,"Kerela","Innovation");
insert into dept values(10,"Sales","Bengaluru");
insert into dept values(20,"Finance","West Bengal");
insert into dept values(30,"Marketing","Bihar");
insert into dept values(40,"Purchase","Mumbai");
insert into dept values(50,"Research & Development" ,"Hyderabad");
insert into dept values(60,"Technical","Kerela");
insert into employee values(100,"Prannay",700,'2003-01-01',24000,10);
insert into employee values(200,"Farhaan",100,'2004-02-02',17000,50);
insert into employee values(300,"Sanika",100,'2003-01-21',9000,30);
insert into employee values(400,"Sakshi", 300 ,'2008-02-17',12000,40);
```

```
insert into employee values(500,"Nishith",400,'2004-03-05',3000,40);

insert into employee values(600,"Sohan",100,'2005-11-01',2000,20);

insert into employee values(700,"Mahima",NULL,'2005-11-21',8000,20);

insert into incentives values(100,'2019-02-17',6000);

insert into incentives values(200,'2019-05-21',7000);

insert into incentives values(400,'2012-07-25',6500);

insert into incentives values(500,'2019-04-19',7400);

insert into incentives values(600,'2013-08-08',8000);

insert into incentives values(700,'2019-08-08',8000);


insert into assigned_to values(100,1, "Project Manager");

insert into assigned_to values(200,1, "Resource Manager");

insert into assigned_to values(300,2, "Business Analyst");

insert into assigned_to values(400,3, "Business Analyst");

insert into assigned_to values(500,3, "Project Manager");

insert into assigned_to values(600,5, "Resource Manager");
```

**3) List the name of the managers with the maximum employees**

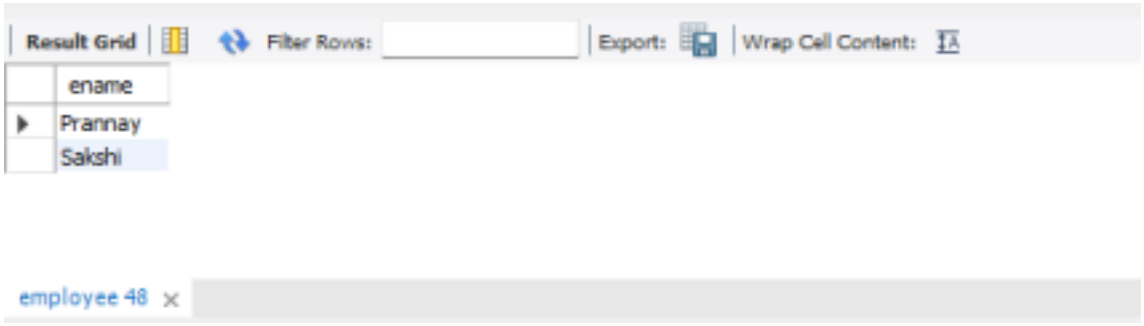
```
select e1.ename
from employee e1, employee e2

where e1.empno=e2.mgr_no group by e1.ename

having count(e1.mgr_no)=(select count(e1.ename)

from employee e1, employee e2 where e1.empno=e2.mgr_no group by
e1.ename order by count(e1.ename) desc limit 1);
```




**4) Display those managers name whose salary is more than average salary of his**

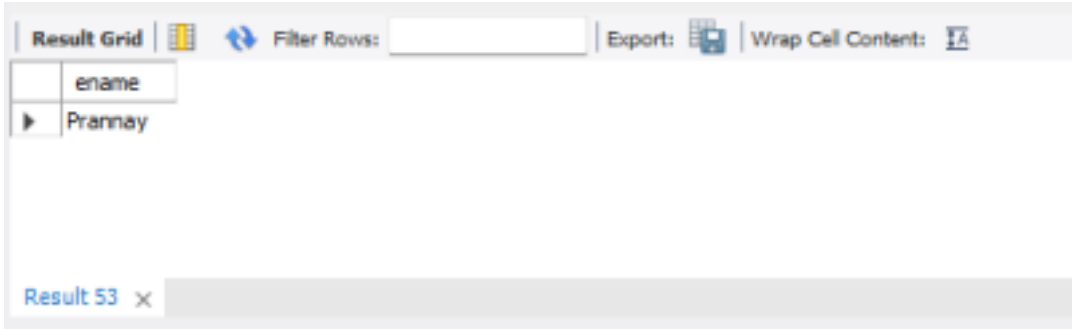
```
select m.ename from employee m
where m.empno in
(select mgr_no from employee)
```

and m.sal>(select avg(n.sal) from employee n
where n.mgr_no=m.empno);



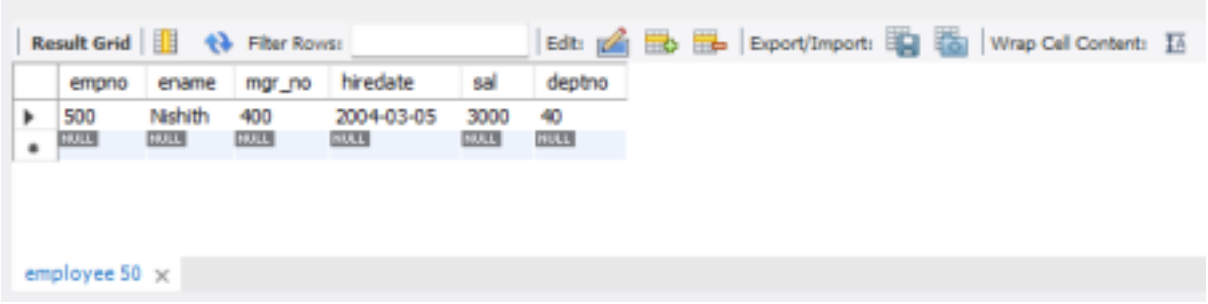

**5) <u>Find the name of the second top level managers of each department.</u>**

select ename from employee where empno in(select distinct mgr_no from employee where empno in
(select distinct mgr_no from employee where empno in (select distinct mgr_no from employee)));



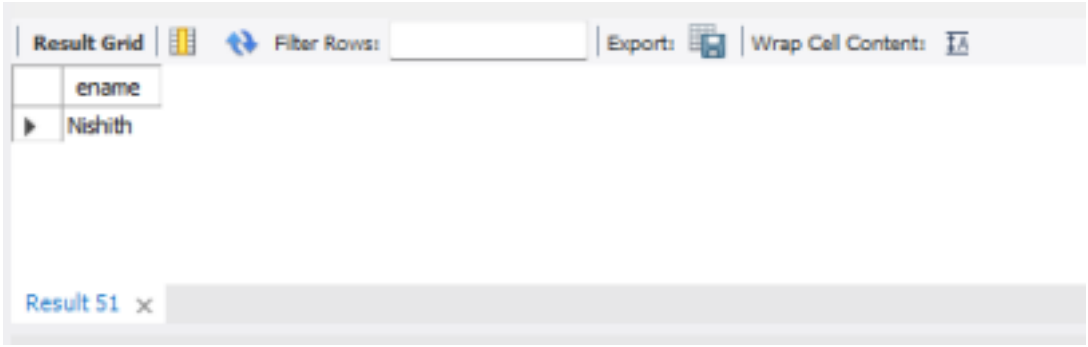

**6) <u>Find the employee details who got second maximum incentive in January 2019.</u>**

select * from employee where empno=
(select i.empno from incentives i
where i.incentive_amount= (select max(n.incentive_amount) from incentives n
where n.incentive_amount<(select max(inc.incentive_amount) from incentives inc
where inc.incentive_date between '2019-01-01' and '2019-12-31') and incentive_date between '2019-01-01' and '2019-12-31'));




**7) <u>Display those employees who are working in the same department where his manager is working.</u>**

select e2.ename
from employee e1, employee e2
where e1.empno=e2.mgr_no and e1.deptno=e2.deptno;


Result Grid
Filter Rows:
Export:
Wrap Cell Content:
ename
Nishith
Result 51