WEEK 5

EMPLOYEE DATABASE

TO DO:

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

(CREATION)

```
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.

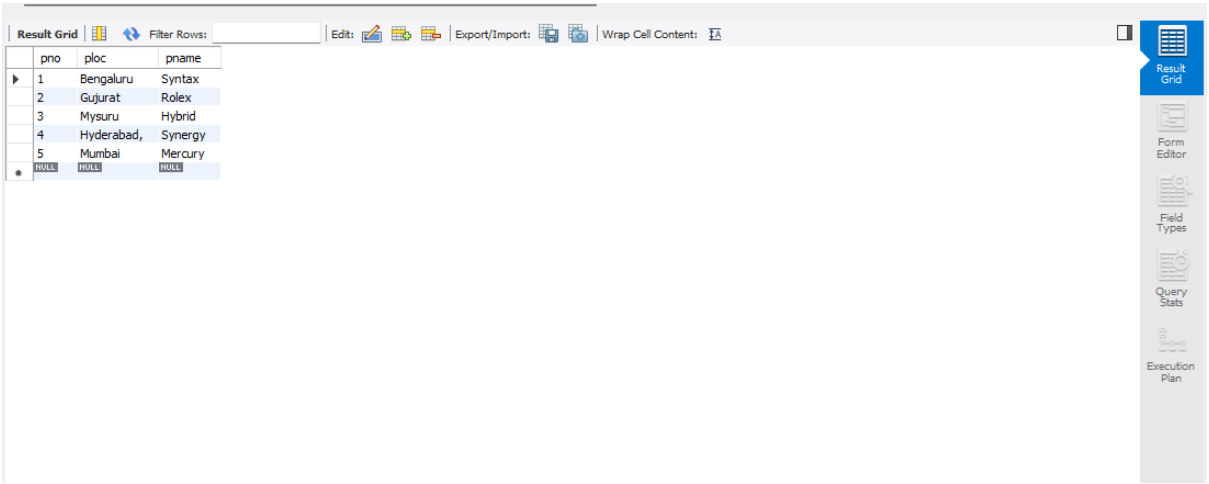
(INSERTION)

```
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 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 & Develeopment","Hyderabad");
insert into employee values(100,"Prannay",400,'2003-01-01',100000,10);
insert into employee values(200,"vishal",500,'2004-02-02',100500,50);
insert into employee values(300,"vaibhav",100,'2003-01-21',200500,30);
```

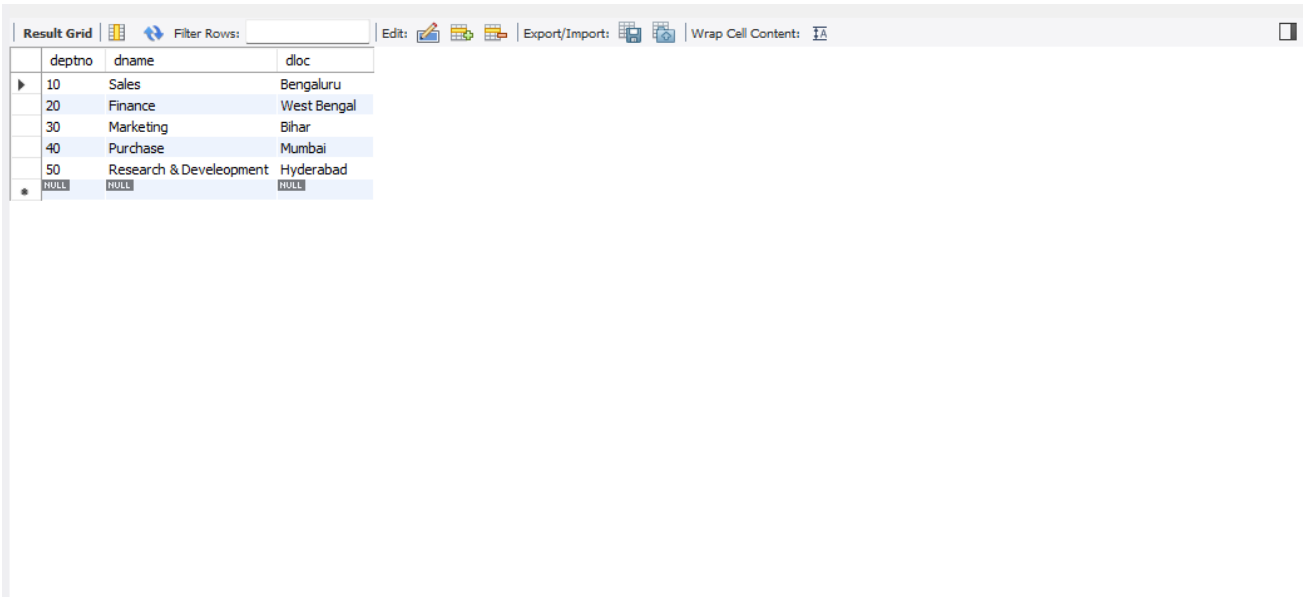
```
insert into employee values(400,"ved", NULL ,'2008-02-17',300500,40);
insert into employee values(500,"arohi",300,'2004-03-05',200700,40);
insert into employee values(600,"aisiri",200,'2005-11-01',200000,20);
insert into employee values(700,"aisha",200,'2005-11-21',200900,20);

insert into incentives values(100,'2012-02-17',6000);
insert into incentives values(200,'2012-05-21',7000);
insert into incentives values(400,'2012-07-25',6500);
insert into incentives values(500,'2013-04-19',7400);
insert into incentives values(600,'2013-08-08',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");
```

• SELECTION

select * from project;

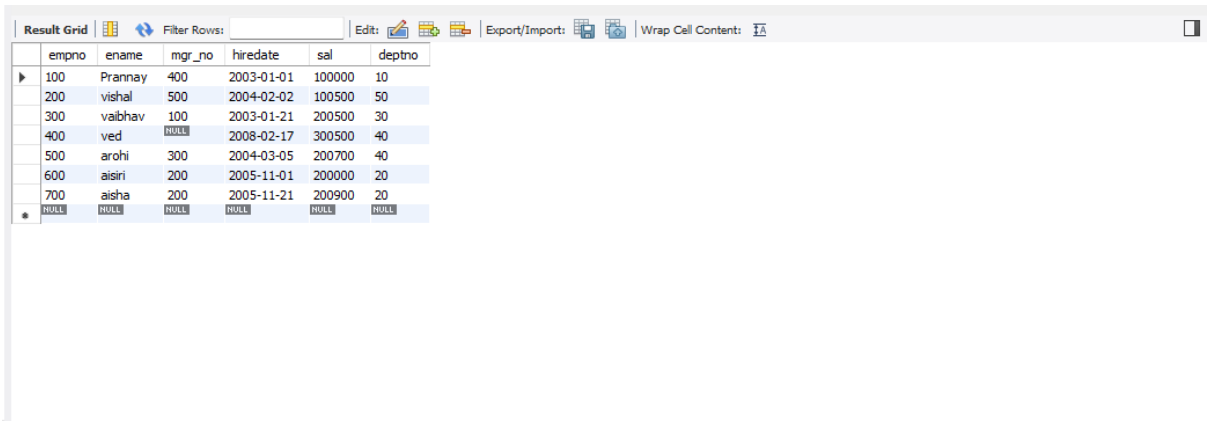


select * from dept;



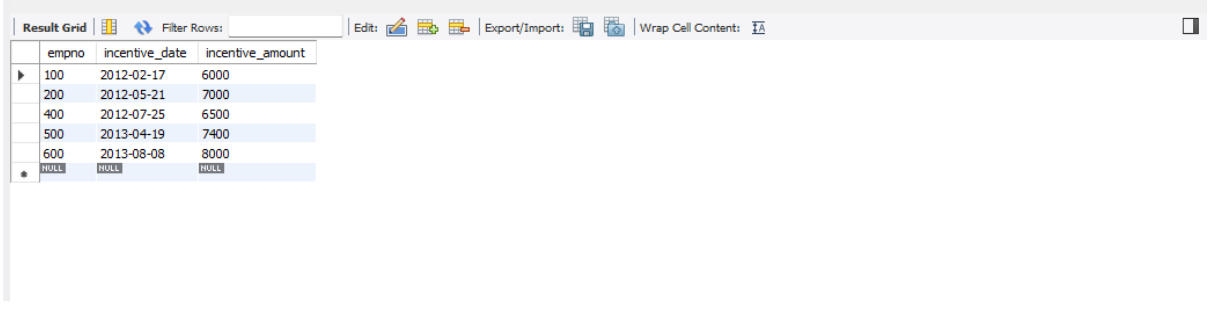
deptno	dname	dloc
10	Sales	Bengaluru
20	Finance	West Bengal
30	Marketing	Bihar
40	Purchase	Mumbai
50	Research & Develeopment	Hyderabad
NULL	NULL	NULL

select * from employee;



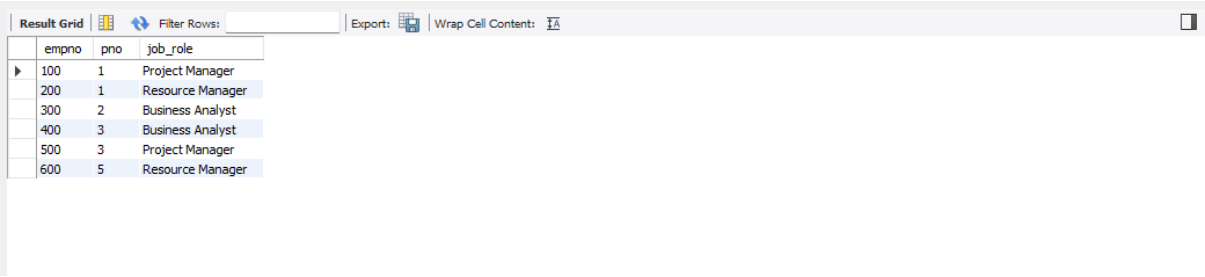
empno	ename	mgr_no	hiredate	sal	deptno
100	Prannay	400	2003-01-01	100000	10
200	vishal	500	2004-02-02	100500	50
300	vaibhav	100	2003-01-21	200500	30
400	ved	NULL	2008-02-17	300500	40
500	arohi	300	2004-03-05	200700	40
600	aisiri	200	2005-11-01	200000	20
700	aisha	200	2005-11-21	200900	20
NULL	NULL	NULL	NULL	NULL	NULL

select * from incentives;



empno	incentive_date	incentive_amount
100	2012-02-17	6000
200	2012-05-21	7000
400	2012-07-25	6500
500	2013-04-19	7400
600	2013-08-08	8000
NULL	NULL	NULL

select * from assigned_to;

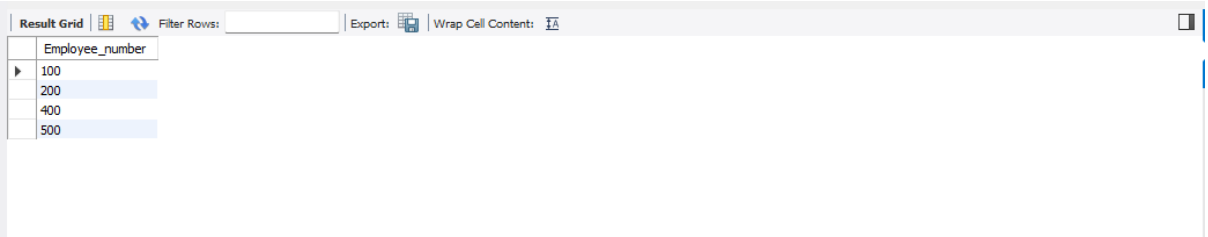


empno	pno	job_role
100	1	Project Manager
200	1	Resource Manager
300	2	Business Analyst
400	3	Business Analyst
500	3	Project Manager
600	5	Resource Manager

3) Retrieve the employee numbers of all employees who work on project located in Bengaluru, Hyderabad, or Mysuru.

select a.empno Employee_number from project p, assigned_to a

where p.pno=a.pno and p.ploc in("Hyderabad","Bengaluru","Mysuru");



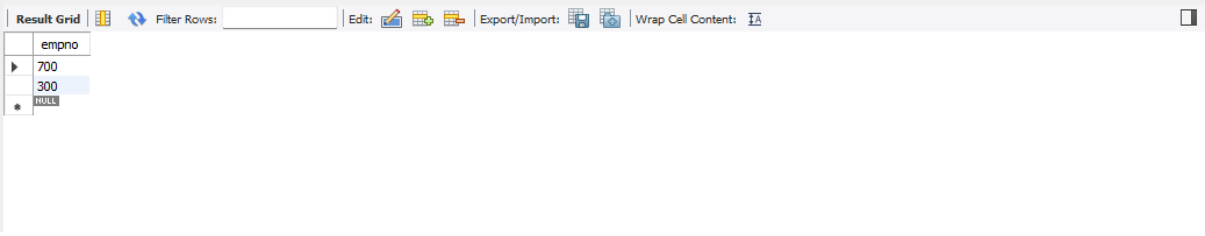
Employee_number
100
200
400
500

4) Get Employee ID's of those employees who didn't receive incentives

select e.empno from employee e

where e.empno NOT IN

(select i.empno from incentives i);

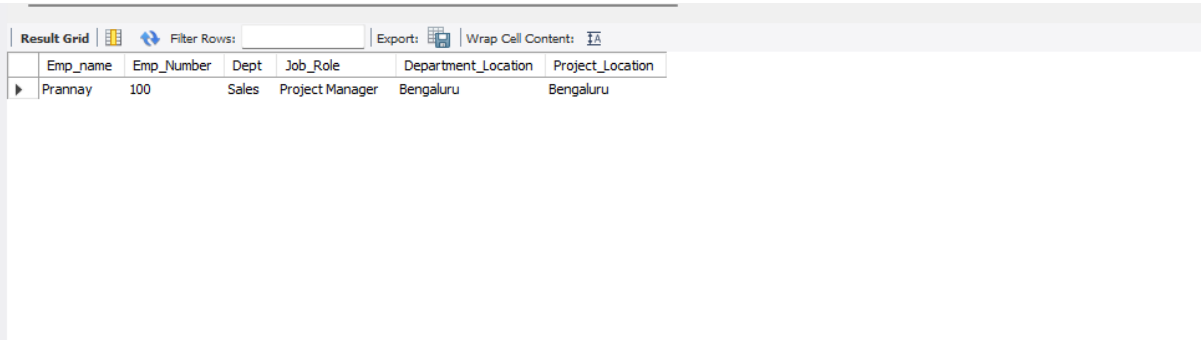


empno
700
300
NULL

5) Write a SQL query to find the employees name, number, dept, job_role, department location and project location who are working for a project location same as his/her department location.

select e.ename Emp_name, e.empno Emp_Number, d.dname Dept,

```
a.job_role Job_Role, d.dloc Department_Location, p.ploc
Project_Location
from project p, dept d, employee e, assigned_to a
where e.empno=a.empno and p.pno=a.pno and e.deptno=d.deptno and
p.ploc=d.dloc;
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Emp_name	Emp_Number	Dept	Job_Role	Department_Location	Project_Location
Prannay	100	Sales	Project Manager	Bengaluru	Bengaluru