WEEK 5

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CODE

QUERY 1

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

```
create database employees;
use employees;

create table project(
pno int,
ploc varchar(40),
pname varchar(40),
primary key(pno)
);

create table dept(
deptno int,
dname varchar(40),
dloc varchar(40),
primary key(deptno)
);

create table employee(
empno int,
ename varchar(40),
mgr_no int,
hiredate date,
sal int,
```

```
deptno int,
primary key (empno),
foreign key (deptno) references dept(deptno) on delete cascade
);

create table incentives(
empno int,
incentive_date date,
incentive_amount int,
primary key(incentive_date),
foreign key (empno) references employee(empno) on delete cascade
);

create table assigned_to(
empno int,
pno int,
job_role varchar(50),
foreign key (pno) references project(pno) on delete cascade,
foreign key (empno) references employee(empno) on delete cascade
);
```

QUERY 2

Enter greater than five tuples for each table.

```
insert into project values(1,"Bengaluru","Microsoft"),
(2,"Mangalore","Reliance"),(3,"Mysuru","Dell"),(4,"Hyderabad,","HP"),(5,"Chennai","Byjus");

insert into dept values (10,"Research","Bengaluru"),(20,"Finance","West
Bengal"),(30,"Marketing","Bihar"),(40,"HR","Mumbai"),(50,"Sales","Hyderabad");

insert into employee values
(100,"airi",400,'2003-01-01',100000,10),(200,"haruka",500,'2004-02-02',100500,50),
(300,"shizuku",100,'2005-03-03',200500,30), (400,"minori", 500 ,'2006-04-04',300500,40),
```

(500,"nene",300,'2007-05-05',200700,40), (600,"toya",200,'2008-06-06',200000,20),(700,"akito",200,'2009-07-07',200900,20);

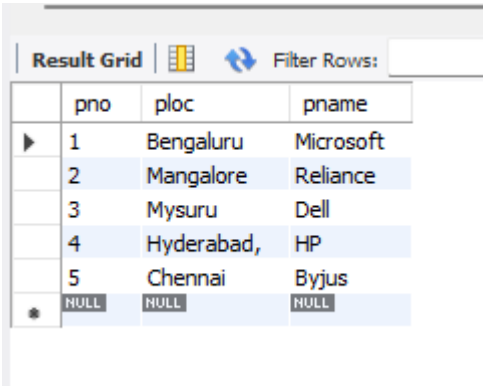
insert into incentives values(100,'2012-01-17',6000),(200,'2012-02-18',7000),(300,'2012-03-19',8000),(500,'2013-04-20',9000),(600,'2013-05-21',10000);

insert into assigned_to values(100,1, "Manager"),(200,1, "Manager"),(300,2, "Researcher"),(400,3, "Businessman"),

(500,3, "Businessman"),(700,5, "CEO");

OUTPUT

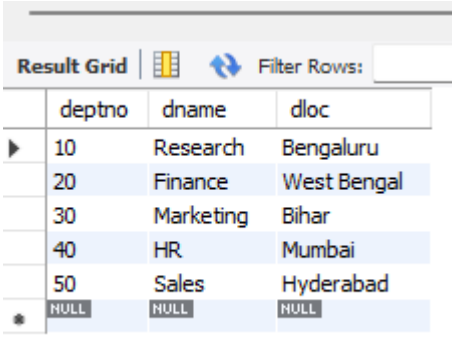
select * from project;



Result Grid | Filter Rows:

pno	ploc	pname
1	Bengaluru	Microsoft
2	Mangalore	Reliance
3	Mysuru	Dell
4	Hyderabad,	HP
5	Chennai	Byjus
NULL	NULL	NULL

select * from dept;



Result Grid | Filter Rows:

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

select * from employee;

Result Grid | Filter Rows: | Edit:

empno	ename	mgr_no	hiredate	sal	deptno
100	airi	400	2003-01-01	100000	10
200	haruka	500	2004-02-02	100500	50
300	shizuku	100	2005-03-03	200500	30
400	minori	500	2006-04-04	300500	40
500	nene	300	2007-05-05	200700	40
600	toya	200	2008-06-06	200000	20
700	akito	200	2009-07-07	200900	20
NULL	NULL	NULL	NULL	NULL	NULL

select * from incentives;

Result Grid | Filter Rows:

empno	incentive_date	incentive_amount
100	2012-01-17	6000
200	2012-02-18	7000
300	2012-03-19	8000
500	2013-04-20	9000
600	2013-05-21	10000
NULL	NULL	NULL

select * from assigned_to;

Result Grid | Filter Rows:

empno	pno	job_role
100	1	Manager
200	1	Manager
300	2	Researcher
400	3	Businessman
500	3	Businessman
700	5	CEO

QUERY 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");

Result Grid | Filter Rc

employee_number
100
200
400
500

QUERY 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);

Result Grid

empno
700
400
NULL

QUERY 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 their department location.

```
select e.ename emp_name, e.empno emp_number, d.dname department,
a.job_role jobrole, 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	department	jobrole	department_location	project_location
airi	100	Research	Manager	Bengaluru	Bengaluru