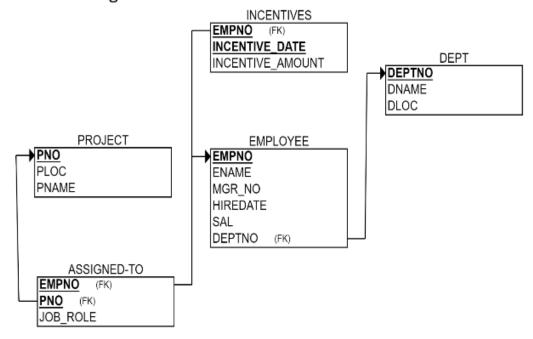
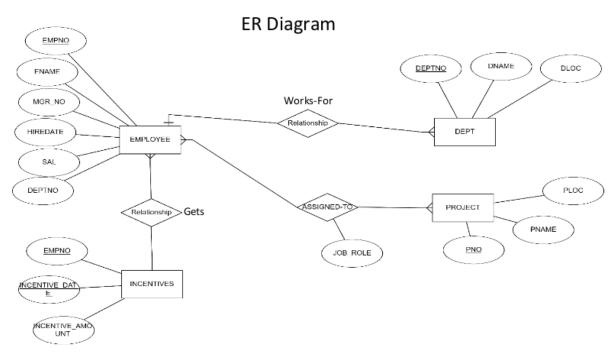
#### **WEEK 5- EMPLOYEE DATABASE**

## Schema Diagram





#### TO DO:

## 1) <u>Using Scheme diagram, Create tables by properly specifying the</u> primary keys and the foreign keys.

#### (CREATION)

```
create database dhiksha employee;
use dhiksha employee;
create table dhiksha_employee.project(
pno int,
ploc varchar(40),
pname varchar(40),
PRIMARY KEY(pno)
);
create table dhiksha employee.dept(
deptno int,
dname varchar(40),
dloc varchar(40),
PRIMARY KEY(deptno)
);
create table dhiksha 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 dhiksha_employee.incentives(
empno int,
incentive_date date,
incentive amount int,
primary key(incentive date),
foreign key (empno) references employee(empno)
);
create table dhiksha employee.assigned to(
empno int,
```

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

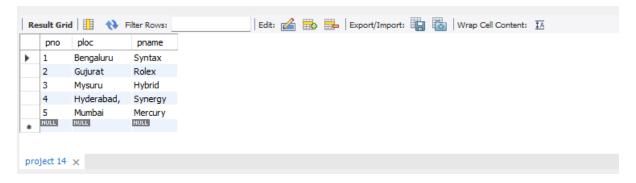
## 2) Enter greater than five tuples for each table. (INSERTION)

```
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, "Farhaan", 500, '2004-02-02', 100500, 50);
insert into employee values(300, "Sanika", 100, '2003-01-21', 200500, 30);
insert into employee values(400, "Sakshi", NULL, '2008-02-
17',300500,40);
insert into employee values (500, "Nishith", 300, '2004-03-05', 200700, 40);
insert into employee values(600, "Sohan", 200, '2005-11-01', 200000, 20);
insert into employee values (700, "Mahima", 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);
```

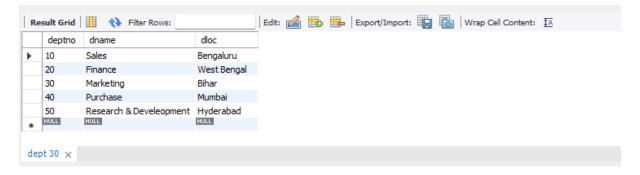
```
insert into assigned_to values(100,1, "Project Manager"); insert into assigned_to values(200,1, "Resource Manager"); insert into assigned_to values(300,2, "Business Analyst"); insert into assigned_to values(400,3, "Business Analyst"); insert into assigned_to values(500,3, "Project Manager"); insert into assigned_to values(600,5, "Resource Manager");
```

#### • **SELECTION**

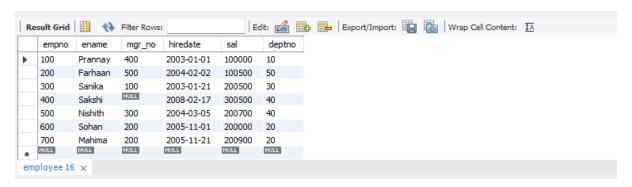
#### select \* from project;



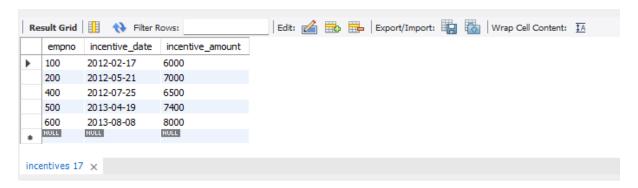
### select \* from dept;



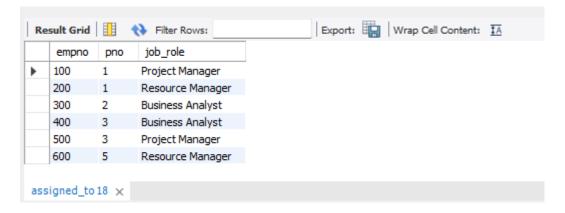
#### select \* from employee;



#### select \* from incentives:

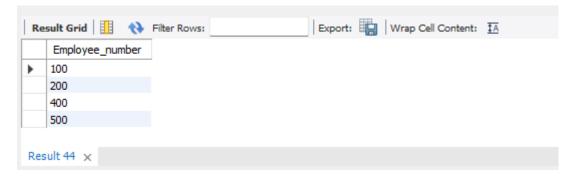


#### select \* from assigned\_to;



## 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");



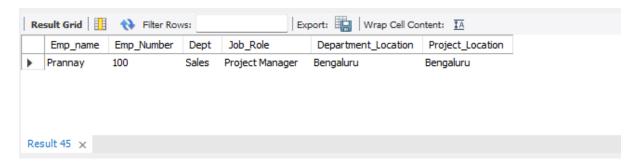
#### 4) Get Employee ID's of those employees who didn't receive incentives

select e.empno from employee e
where e.empno NOT IN
(select i.empno from incentives i);



# 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;



#### **SPOT QUERY:**

# Find the employee name, dept name and job role of an employee who received maximum incentive in year 2012

select e.ename, d.dname, a.job\_role, MAX(i.incentive\_amount) MAX\_incentive

from employee e, dept d, incentives i, assigned\_to a

where incentive\_date between '2012-01-01' and '2012-12-31';

