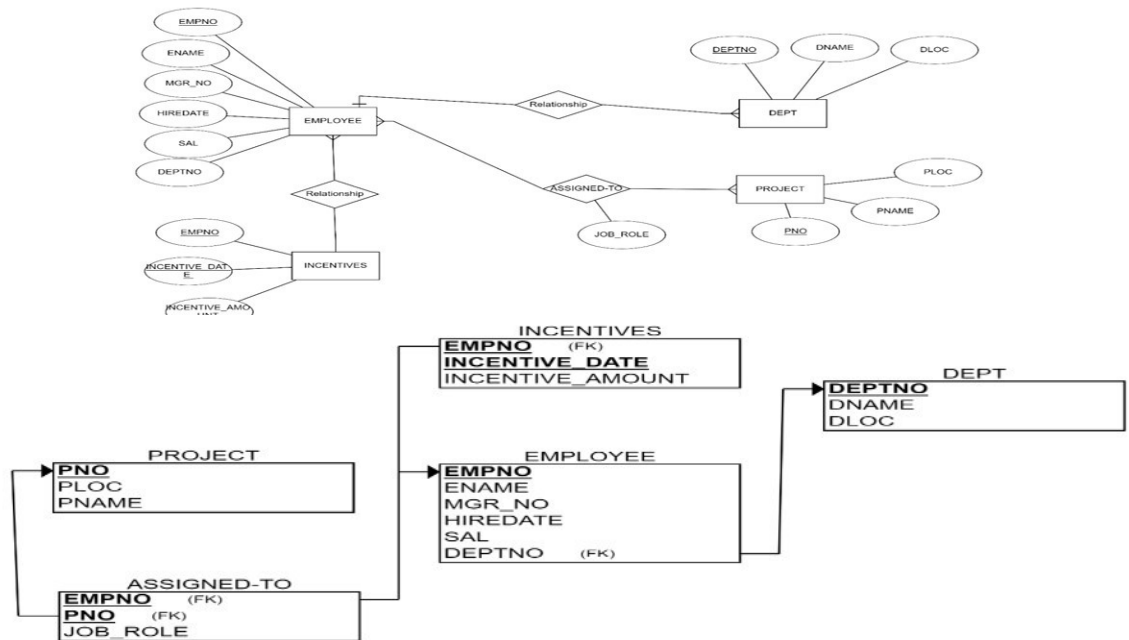# 5. Employee Database

PROGRAM 5: Employee Database

i. Using Scheme diagram, create tables by properly specifying the primary keys and the foreign keys.
ii. Enter greater than five tuples for each table.
iii. Retrieve the employee numbers of all employees who work on project located in Bengaluru, Hyderabad, or Mysuru.
iv. Get Employee IDs of those employees who didn't receive incentives.
v. 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.

Creating of database and tables:

create database employee_244;

use employee_244;

create table project(

pno int, ploc varchar(40),

pname varchar(40),

PRIMARY KEY(pno)

);

Inserting values into the tables:

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");
select * from project;

pno	ploc	pname
1	Bengaluru	Syntax
2	Gujurat	Rolex
3	Mysuru	Hybrid
4	Hyderabad,	Synergy
5	Mumbai	Mercury
NULL	NULL	NULL

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");
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

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);
select * from employee;

empno	ename	mgr_no	hiredate	sal	deptno
100	Prannay	400	2003-01-01	100000	10
200	Farhaan	500	2004-02-02	100500	50
300	Sanika	100	2003-01-21	200500	30
400	Sakshi	NULL	2008-02-17	300500	40
500	Nishith	300	2004-03-05	200700	40
600	Sohan	200	2005-11-01	200000	20
700	Mahima	200	2005-11-21	200900	20
NULL	NULL	NULL	NULL	NULL	NULL

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);
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

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");
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

Queries:

- 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

- 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