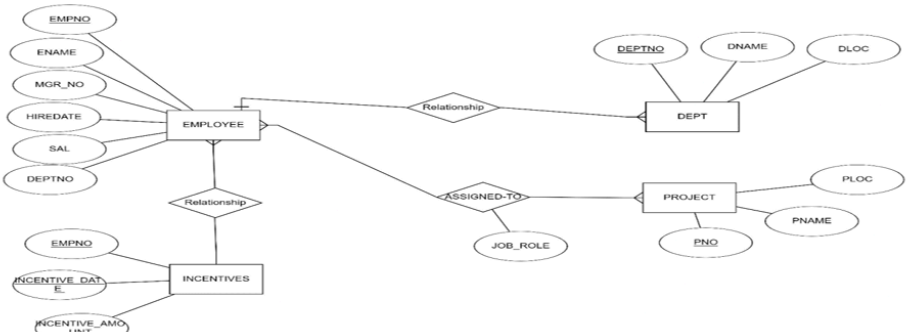
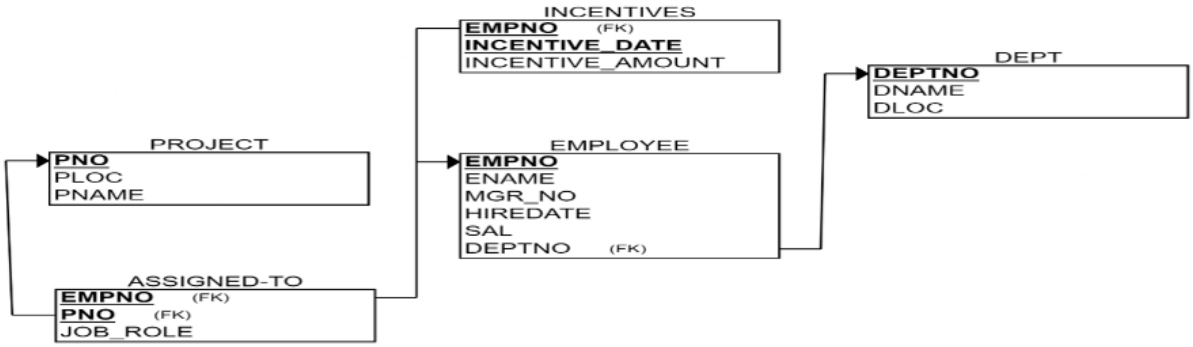
5. Employee Database

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_141;
use employee_141;


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)
);
create table incentives(
empno int,
incentive_date date,
incentive_amount int,
primary key(incentive_date),
foreign key (empno) references employee(empno)
);
create table assigned_to(
empno int,
pno int,
job_role varchar(50),
foreign key (pno) references project(pno),
foreign key (empno) references employee(empno)
);
```

Inserting values into the tables:

```
insert into project values(1,'Bangalore','test1'),
(2,'Hyderabad','test2'), (3,'Mysore','test3'),
(4,'Bangalore','test4'), (5,'Delhi','test5'),
(6,'Mumbai','test6');
select * from project;
```

pno	ploc	pname
1	Bangalore	test1
2	Hyderabad	test2
3	Mysore	test3
4	Bangalore	test4
5	Delhi	test5

```
insert into dept values(1000,'Technical','Bangalore'),
(1004,'Marketing','Delhi'), (1008,'Logistics','Mumbai'),
(1012,'Software','Mysore'), (1016,'Management','Hyderabad'),
(1020,'Finance','Delhi');
select * from dept;
```

deptno	dname	dloc
1000	Technical	Bangalore
1004	Marketing	Delhi
1008	Logistics	Mumbai
1012	Software	Mysore
1016	Management	Hyderabad
1020	Finance	Delhi

```
insert into employee values(231,'Kruthin',231,'2024-01-24',20000,1000),
(232,'Shlok',231,'2024-01-24',15000,1000),
(233,'Sanjana',231,'2024-02-20',10000,1000),
(234,'Samraat',232,'2024-01-15',40000,1004),
(235,'Kevin',232,'2024-04-19',13000,1004),
(236,'Abhinav',234,'2025-01-23',18000,1012),
(237,'Manjari',235,'2025-01-23',18000,1016);
select * from employee;
```

empno	ename	mgr_no	hiredate	sal	deptno
231	Kruthin	231	2024-01-24	20000	1000
232	Shlok	231	2024-01-24	15000	1000
233	Sanjana	231	2024-02-20	10000	1000
234	Samraat	232	2024-01-15	40000	1004
235	Kevin	232	2024-04-19	13000	1004
236	Abhinav	234	2025-01-23	18000	1012
237	Manjari	235	2025-01-23	18000	1016

```
insert into incentives values(231,'2024-03-12',2000),(232,'2024-04-20',4000),
(233,'2024-06-04',5000),(234,'2024-07-26',6000),(235,'2019-01-04',5000);
select * from incentives;
```

empno	incentive_date	incentive_amount
231	2024-03-12	2000
232	2024-04-20	4000
233	2024-06-04	5000
234	2024-07-26	6000
235	2019-01-04	5000

```
insert into assigned_to values(231,1,'lead'),
(232,2,'assistant'),(233,3,'lead'),(234,4,'assistant'),
(234,5,'assistant'),(236,5,'lead'),(232,4,'lead'),(235,6,'assistant');
select * from assigned_to;
```

empno	pno	job_role
231	1	lead
232	2	assistant
232	4	lead
233	3	lead
234	4	assistant
234	5	assistant
235	6	assistant
236	5	lead

Queries:

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

```
select a.empno from assigned_to a
where pno in (select pno from project p where p.ploc = "Bangalore" or
p.ploc = "Hyderabad" or p.ploc = "Mysore");
```

empno
231
232
233
232
234

iv. 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
236
237

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.

```
select e.ename, e.empno, d.dname, a.job_role, d.dloc, p.ploc
from employee e, assigned_to a , dept d, project p
where e.empno = a.empno
and d.deptno = e.deptno
and p.pno = a.pno
and p.ploc = d.dloc;
```

ename	empno	dname	job_role	dloc	ploc
Kruthin	231	Technical	lead	Bangalore	Bangalore
Shlok	232	Technical	lead	Bangalore	Bangalore
Samraat	234	Marketing	assistant	Delhi	Delhi