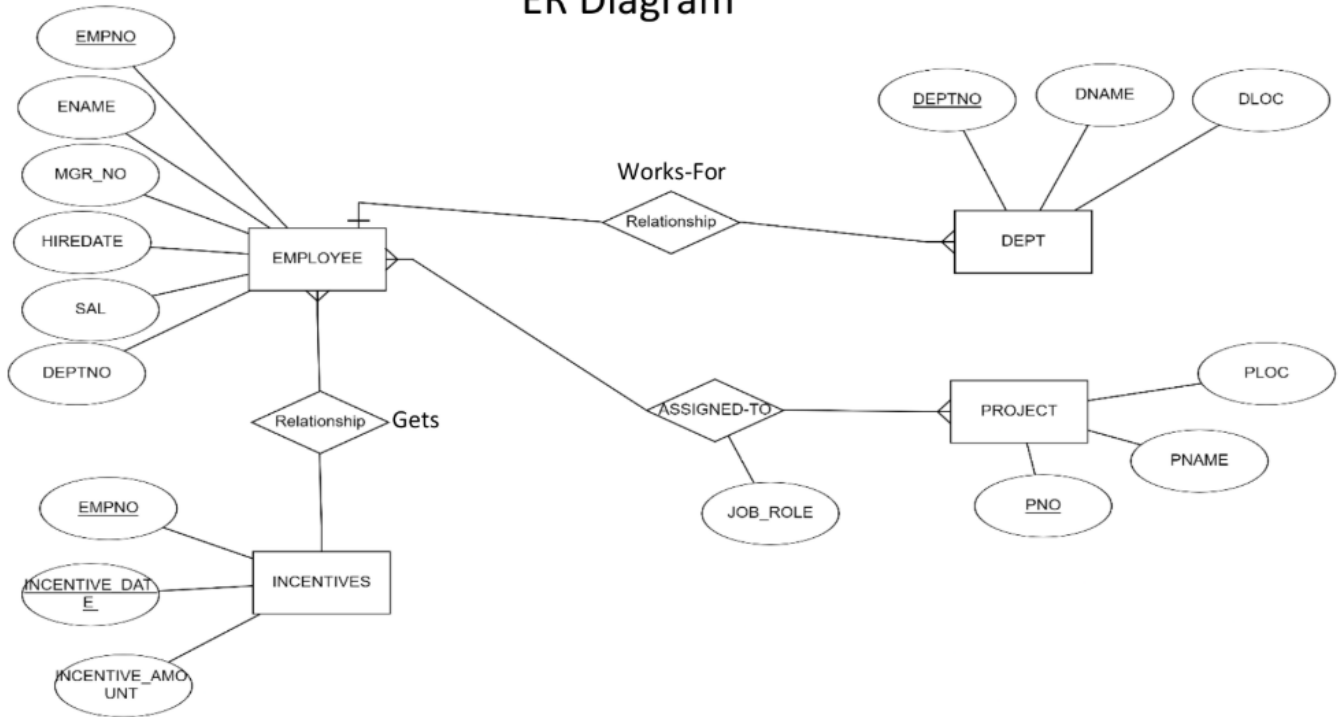


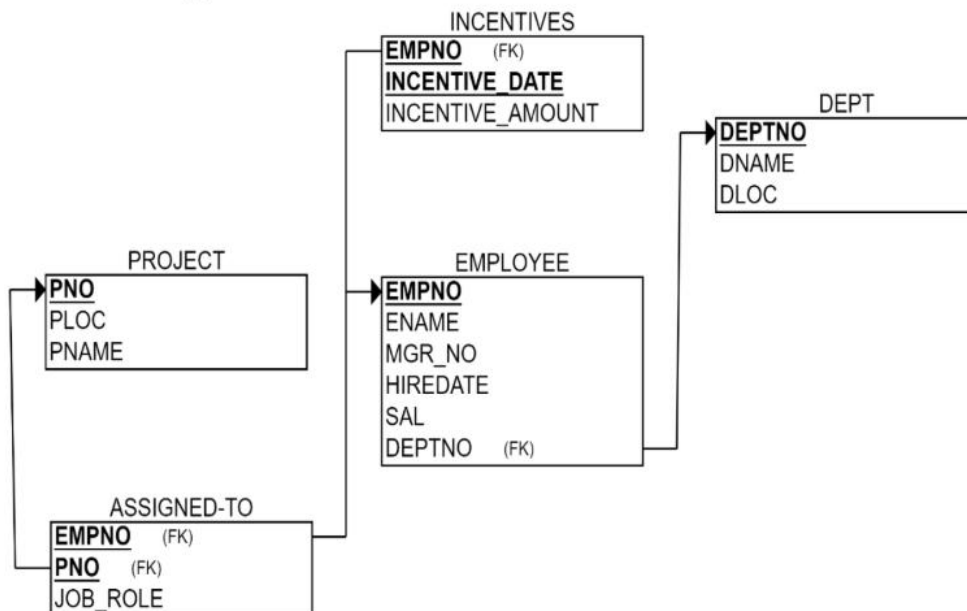
WEEK – 4

Employee Database

ER Diagram



Schema Diagram



- i. Using Scheme diagram, Create tables by properly specifying the primary keys and the foreignkeys.
- 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 ID's 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.

Create tables:-

```
create database employee;
```

```
use employee;
```

```
> create table dept(
  deptno int primary key,
  dname varchar(10),
  dloc varchar(20));
```

```
create table employee(
  empno int primary key,
  ename char(20),
  mgr_no int,
  hiredate date,
  sal int,
  deptno int,
  foreign key(deptno) references dept(deptno));
```

```
> create table project (
  pno int primary key,
  ploc varchar(20),
  pname varchar(20));
```

```
> create table incentives(
  empno int,
  incentive_date date,
  incentive_amount int,
  foreign key(empno) references employee(empno));
```

```
create table asg_to(  
  empno int,  
  pno int,  
  job_role varchar(30),  
  foreign key(empno) references employee(empno),  
  foreign key(pno) references project(pno));
```

Inserting values:-

```
INSERT INTO dept VALUES  
(10, 'Accounts', 'Bangalore'),  
(20, 'Sales', 'Mumbai'),  
(30, 'HR', 'Delhi'),  
(40, 'IT', 'Hyderabad'),  
(50, 'Admin', 'Chennai'),  
(60, 'Research', 'Mysore');
```

```
INSERT INTO employee VALUES  
(101, 'Arjun', 0, '2022-05-10', 45000, 10),  
(102, 'Bhavna', 101, '2021-07-22', 52000, 20),  
(103, 'Charan', 102, '2023-01-15', 48000, 30),  
(104, 'Deepa', 101, '2020-03-18', 60000, 40),  
(105, 'Esha', 104, '2022-11-05', 55000, 50),  
(106, 'Farhan', 102, '2024-04-09', 50000, 60);
```

```
INSERT INTO project VALUES  
(1, 'Bangalore', 'BankApp'),  
(2, 'Mumbai', 'ECommerce'),  
(3, 'Chennai', 'HRPortal'),  
(4, 'Delhi', 'CRMSystem'),  
(5, 'Hyderabad', 'Inventory'),  
(6, 'Mysore', 'AIResearch');
```

```
INSERT INTO incentives VALUES
```

```
(101, '2024-01-15', 5000),  
(102, '2024-03-10', 3000),  
(103, '2024-05-20', 2500),  
(104, '2024-07-05', 6000),  
(106, '2024-09-30', 3500);
```

```
INSERT INTO asg_to VALUES
```

```
(101, 1, 'Team Lead'),  
(102, 2, 'Developer'),  
(103, 3, 'HR Coordinator'),  
(104, 4, 'Tester'),  
(105, 5, 'Network Engineer'),  
(106, 6, 'Data Analyst');
```

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

```
select e.empno from employee e  
join asg_to a on e.empno = a.empno  
join project p on a.pno= p.pno  
where p.ploc in ("Mysore","Bangalore","Hyderabad");
```

	empno
▶	101
	105
	106

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

```
SELECT e.empno, e.ename  
FROM employee e  
LEFT JOIN incentives i ON e.empno = i.empno  
WHERE i.empno IS NULL;
```

	empno	ename
▶	105	Esha

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,e.deptno,a.job_role,d.dloc,p.ploc
from employee e
join dept d on e.deptno=d.deptno
join asg_to a on e.empno = a.empno
join project p on a.pno=p.pno
where d.dloc = p.ploc;
```

	ename	empno	deptno	job_role	dloc	ploc
▶	Arjun	101	10	Team Lead	Bangalore	Bangalore
	Bhavna	102	20	Developer	Mumbai	Mumbai
	Farhan	106	60	Data Analyst	Mysore	Mysore