WEEK 5

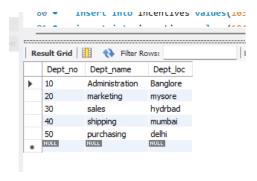
1. Using Scheme diagram, Create tables by properly specifying the primary keys and the foreign keys.

```
create database employee;
use employee;
create table Dept(
Dept_no int,
Dept_name varchar(30),
Dept_loc varchar(30),
primary key(Dept_no)
);
desc Dept;
create table Employee(
Emp_no int,
E_name varchar(20),
mgr_no varchar(50),
hiredate date,
sal int,
Dept_no int,
primary key(Emp_no),
foreign key(Dept_no) references Dept(Dept_no)
on update cascade on delete cascade
);
desc Employee;
create table project(
P_no int,
```

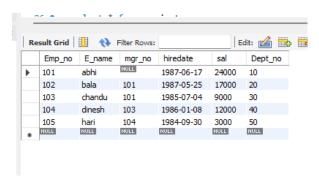
```
P_loc varchar(50),
P_name varchar(50),
primary key(P_no)
);
desc project;
create table assigned_to (
Emp_no int,
P_no int,
job_role varchar(30),
primary key(Emp_no,P_no),
foreign key(Emp_no) references Employee(Emp_no),
foreign key(P_no) references project(P_no)
on update cascade on delete cascade
);
desc assigned_to;
create table incentives (
Emp_no int,
incentive_date date,
incentive_amount int,
primary key(Emp_no,incentive_date),
foreign key(Emp_no) references Employee(Emp_no)
on update cascade on delete cascade
);
desc incentives;
```

2. Enter greater than five tuples for each table.

insert into Dept values(10,'Administration','Banglore'); insert into Dept values(20,'marketing','mysore'); insert into Dept values(30,'sales','hydrbad'); insert into Dept values(40,'shipping','mumbai'); insert into Dept values(50,'purchasing','delhi'); select * from Dept;

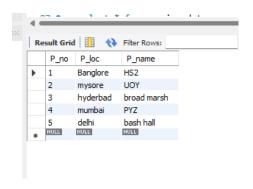


insert into Employee values(101,'abhi',NULL,'1987-06-17',24000,10); insert into Employee values(102,'bala','101','1987-05-25',17000,20); insert into Employee values(103,'chandu','101','1985-07-04',9000,30); insert into Employee values(104,'dinesh','103','1986-01-08',12000,40); insert into Employee values(105,'hari','104','1984-09-30',3000,50); insert into Employee values(106,'varun','101','1987-08-16',2000,20); select * from Employee;

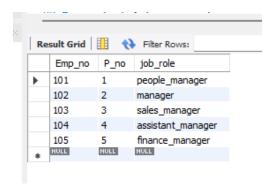


insert into project values(1,'Banglore','HS2');
insert into project values(2,'mysore','UOY');
insert into project values(3,'hyderbad','broad marsh');

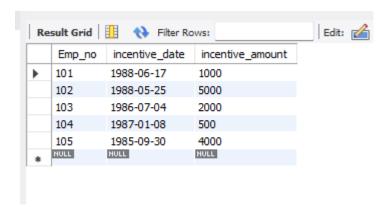
insert into project values(4,'mumbai','PYZ');
insert into project values(5,'delhi','bash hall');
select * from project;



insert into assigned_to values(101,1,'people_manager'); insert into assigned_to values(102,2,'manager'); insert into assigned_to values(103,3,'sales_manager'); insert into assigned_to values(104,4,'assistant_manager'); insert into assigned_to values(105,5,'finance_manager'); select * from assigned_to;



insert into incentives values(101,'1988-06-17',1000); insert into incentives values(102,'1988-05-25',5000); insert into incentives values(103,'1986-07-04',2000); insert into incentives values(104,'1987-01-08',500); insert into incentives values(105,'1985-09-30',4000); select * from incentives;



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

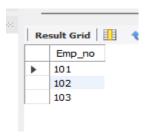
select e.Emp_no from Employee e
where e.Emp_no NOT IN
(select i.Emp_no from incentives i);



4. Retrieve the employee numbers of all employees who work on

project located in Bengaluru, Hyderabad, or Mysuru

select Emp_no from assigned_to where Pno= ANY(select P_no from project where P_loc="hyderbad" OR P_loc = "banglore" OR P_loc="mysore");



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.E_name E_name, e.Emp_no Emp_no, d.Dept_name Dept, a.job_role job_Role, d.Dept_loc Dept_loc, p.P_loc P_Loc

from project p, Dept d, Employee e, assigned to a

where e.Emp_no=a.Emp_no and p.P_no=a.P_no and e.Dept_no=d.Dept_no and p.P_loc=d.Dept_loc;



Spot query

 find the employee name, dept name and job_role of an employee who received max incentive in year 2021

