## WEEK 5

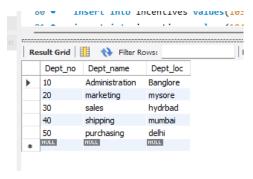
1. Using Scheme diagram, Create tables by properly specifying the primary keys and the foreign keys.

```
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,
```

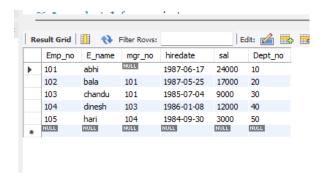
```
P_loc varchar(50),
P_name varchar(50),
primary key(P_no)
);
desc project;
create table assigned_to (
Emp_no int,
P_no int,
job_role varchar(30),
primary key(Emp_no,P_no),
foreign key(Emp_no) references Employee(Emp_no),
foreign key(P_no) references project(P_no)
on update cascade on delete cascade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

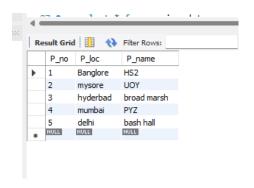


insert into Employee values(101,'abhi',NULL,'1987-06-17',24000,10); insert into Employee values(102,'bala','101','1987-05-25',17000,20); insert into Employee values(103,'chandu','101','1985-07-04',9000,30); insert into Employee values(104,'dinesh','103','1986-01-08',12000,40); insert into Employee values(105,'hari','104','1984-09-30',3000,50);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

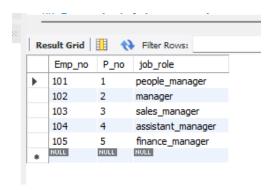


insert into project values(1,'Banglore','HS2');
insert into project values(2,'mysore','UOY');
insert into project values(3,'hyderbad','broad marsh');
insert into project values(4,'mumbai','PYZ');

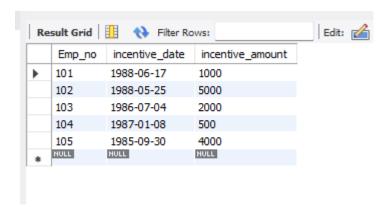
insert into project values(5,'delhi','bash hall');
select \* from project;



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

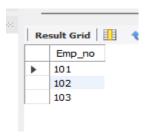
select e.Emp\_no from Employee e
where e.Emp\_no NOT IN
(select i.Emp\_no from incentives i);



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

