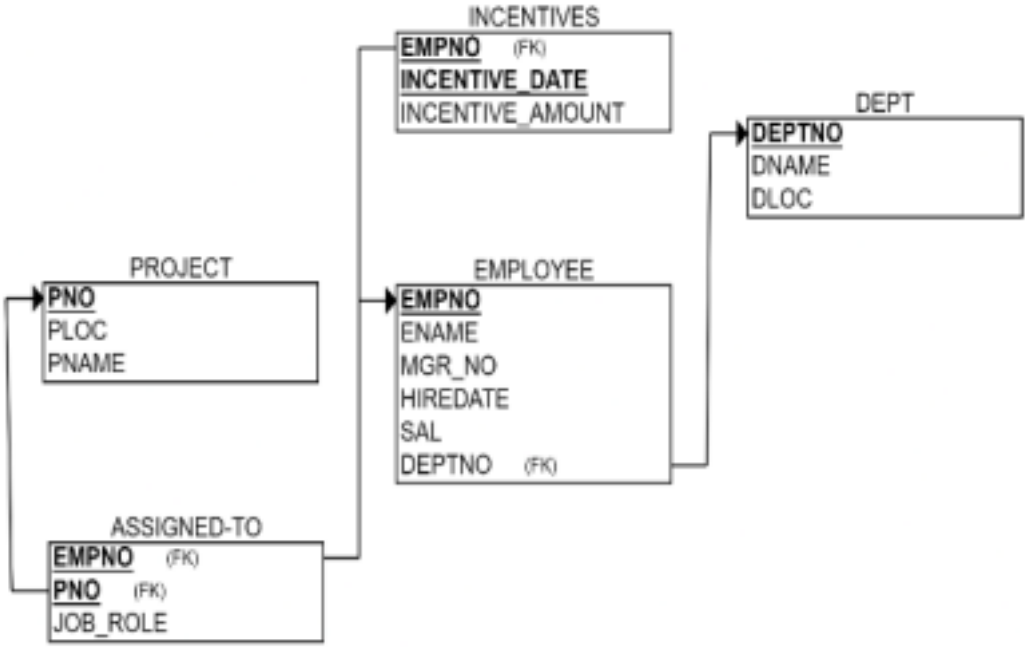
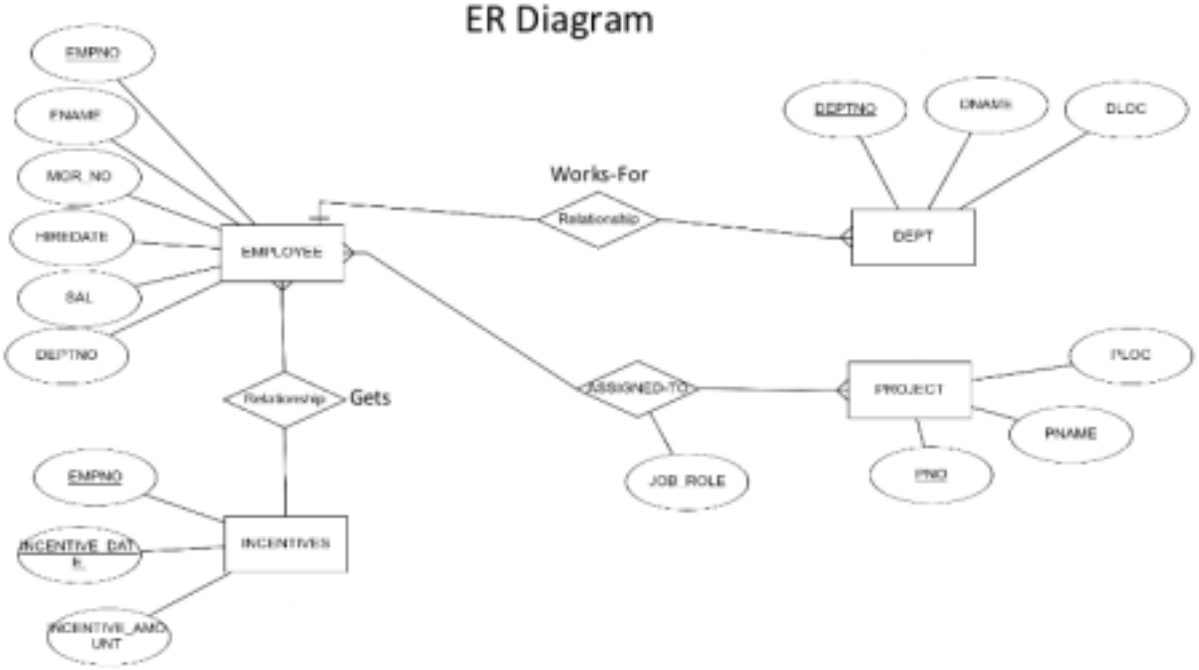
WEEK 6– MORE QUERIES ON EMPLOYEE DATABASE

Schema Diagram



ER Diagram



TO DO:

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

   create database company;

```
use company;


create table Project(PNO varchar(10),

PLOC varchar(10),

PNAME varchar(25),

primary key(PNO));
create table DEPT(DEPTNO varchar(10),

DNAME varchar(25),

DLOC varchar(10),

primary key(DEPTNO));


create table EMPLOYEE(EMPNO varchar(10),

ENAME varchar(30),

MGR_NO varchar(10),

HIREDAATE date,

sal int,

DEPTNO varchar(10),

primary key(EMPNO),

foreign key (DEPTNO) references DEPT(DEPTNO)
ON DELETE CASCADE
on update cascade);
```

```
create table ASSIGNED_TO(EMPNO varchar(10),
PNO varchar(10),

JOB_ROLE varchar(20),

primary key(EMPNO, PNO),

foreign key(EMPNO) references EMPLOYEE(EMPNO),

foreign key(PNO) references PROJECT(PNO)
ON DELETE CASCADE
on update cascade);



create table INCENTIVES(EMPNO varchar(10),

INCENTIVE_DATE date,

INCENTIVE_AMOUNT int,

primary key(EMPNO, INCENTIVE_DATE),

foreign key(EMPNO) references EMPLOYEE(EMPNO)
ON DELETE CASCADE
on update cascade);
```

2) <u>Enter greater than five tuples for each table.</u>
<u>(INSERTION)</u>

```
insert into Project values("123", "BANGALORE","Management");
insert into Project values("456", "HYDRABAD","App_development");
insert into Project values("056", "MYSORE","Web_development");
```

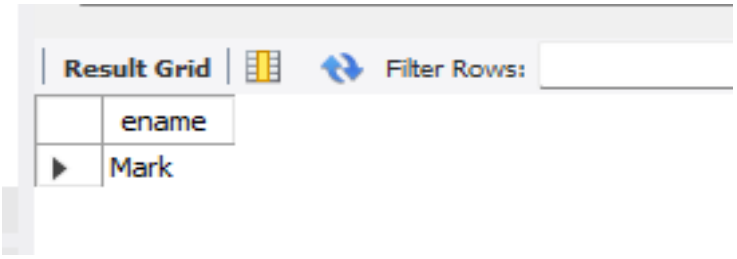
```
insert into Project values("789", "SURAT","Pollution_Management");
insert into Project values("329", "MANGALURU","Marine_study");


insert into DEPT values('1', "Management", "BANGALORE");
insert into DEPT values('2', "App_development", "HYDRABAD");
insert into DEPT values('3', "Web_development", "mysore");
insert into DEPT values('4', "Pollution_Management", "SURAT");
insert into DEPT values('5', "Marine_study", "MANGALURU");


insert into EMPLOYEE values("11A", "Mathew", "12B",
"2000-01-15",100000,'1');
insert into EMPLOYEE values("12B", "Mark", "23B",
"2000-02-15",90000,'2');
insert into EMPLOYEE values("13C", "Luke", "12B",
"2000-03-15",110000,'3');
insert into EMPLOYEE values("14D", "Jhon", "12B",
"2000-04-15",80000,'4');
insert into EMPLOYEE values("15E", "David", "12B",
"2000-05-15",70000,'5');
insert into EMPLOYEE values("16E", "Carter", "12B",
"2000-05-20",750000,'2');

insert into ASSIGNED_TO values("11A", "123","Data_analyst");
insert into ASSIGNED_TO values("12B", "456","App_Development");
insert into ASSIGNED_TO values("13C", "056","Full_stack_developer");
insert into ASSIGNED_TO values("14D", "789","Environmentalist");
insert into ASSIGNED_TO values("15E", "329","Marine_Study");


insert into INCENTIVES values("11A", "2022-06-15", 10000);
insert into INCENTIVES values("12B", "2021-07-15", 9000);
insert into INCENTIVES values("13C", "2021-08-15", 11000);
```

3) List the name of the managers with the maximum employees

```
select e1.ename
from employee e1, employee e2
where e1.empno=e2.mgr_no group by e1.ename
having count(e1.mgr_no)=(select count(e1.ename)
from employee e1, employee e2 where e1.empno=e2.mgr_no
group by e1.ename order by count(e1.ename) desc limit 1);
```

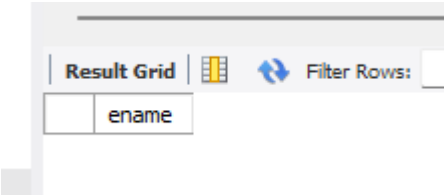
4) Display those managers name whose salary is more than average salary of his

```
select m.ename from employee m
where m.empno in
 (select mgr_no from employee)
 and m.sal>(select avg(n.sal) from employee n
 where n.mgr_no=m.empno);
```



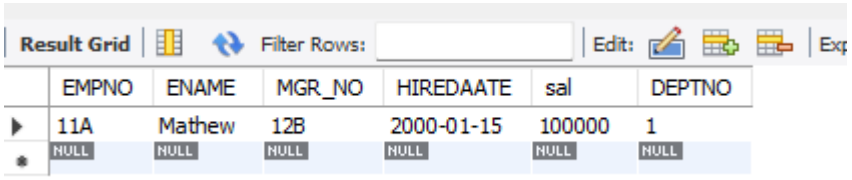
5) Find the name of the second top level managers of each department.

```
select ename from employee where empno in(select distinct mgr_no
from employee where empno in
 (select distinct mgr_no from employee where empno in  (select
distinct mgr_no from employee)));
```



6) <u>Find the employee details who got second maximum incentive in January 2019.</u>

```
select * from employee where empno=
(select i.empno from incentives i
where i.incentive_amount= (select max(n.incentive_amount) from incentives n
where n.incentive_amount<(select max(inc.incentive_amount) from incentives inc
where inc.incentive_date like '2021-__-__' )));
```



7) <u>Display those employees who are working in the same department where his manager is working.</u>

```
select e2.ename
from employee e1, employee e2
where e1.empno=e2.mgr_no and e1.deptno=e2.deptno;
```