WEEK-5 (1BM21CS045) EMPLOYEE DATABASE

TO DO

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

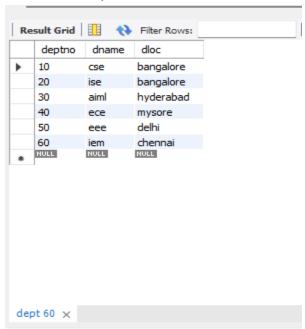
```
create database 1bm21cs045 employee;
use 1bm21cs045_employee;
create table dept(
deptno int,
dname varchar(20),
dloc varchar(20),
primary key(deptno)
);
create table employee(
empno int,
ename varchar(20),
mgr no int,
hiredate date,
sal double,
deptno int,
primary key(empno),
foreign key (deptno) references dept(deptno)
on delete cascade
on update cascade
);
create table incentives(
empno int,
incentive date date,
incentive amount float,
primary key(empno,incentive date),
foreign key (empno) references employee(empno)
on delete cascade
on update cascade
);
create table project(
pno int,
```

```
ploc varchar(20),
pname varchar(20),
primary key(pno)
);
create table assigned to(
empno int,
pno int,
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
);
2. Enter greater than five tuples for each table.
insert into dept values(10,'cse','bangalore');
insert into dept values(20, 'ise', 'bangalore');
insert into dept values(30, 'aiml', 'hyderabad');
insert into dept values(40,'ece','mysore');
insert into dept values(50,'eee','delhi');
insert into dept values(60,'iem','chennai');
insert into employee values(11, 'Rajesh', 21, '2000-04-03', 80000, 10);
insert into employee values(12,'Ajay',11,'2003-04-06',70000,20);
insert into employee values(13, 'Divya', 11, '2006-03-07', 60000, 30);
insert into employee values(14, 'Chandan', 12, '2007-09-03', 50000, 40);
insert into employee values(15, 'Bhavesh', 13, '2009-11-13', 40000, 50);
insert into employee values(16, 'Tarun', 14, '2012-02-10', 30000, 60);
insert into employee values(17, 'Brinda', 14, '2009-05-12', 50000, 10);
insert into employee values(18,'Anil','15','2015-01-01',30000,20);
insert into employee values(19,'Puja','15','2020-10-21',60000,30);
insert into employee values(20,'Ram','16','2021-09-17',45000,40);
insert into incentives values(11,'2002-09-08',40000);
insert into incentives values(12,'2005-07-10',33000);
insert into incentives values(13,'2008-01-21',7000);
insert into incentives values(14,'2014-08-05',8000);
insert into incentives values(15,'2017-09-13',5000);
insert into incentives values(17,'2021-03-17',6000);
insert into incentives values(18,'2021-04-16',8000);
insert into incentives values(19,'2021-08-11',9000);
```

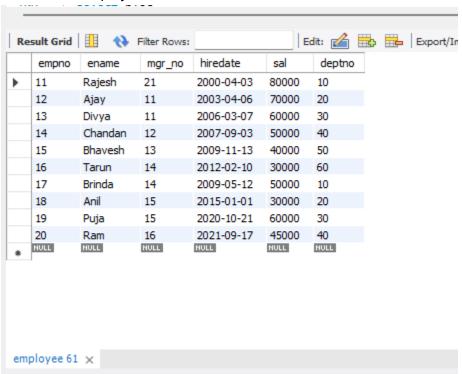
```
insert into project values(121,'bangalore','proj1'); insert into project values(122,'bangalore','proj2'); insert into project values(123,'mysore','proj3'); insert into project values(124,'hyderabad','proj4'); insert into project values(125,'delhi','proj5'); insert into project values(126,'mumbai','proj6'); insert into project values(127,'calicut','proj7'); insert into project values(128,'calicut','proj8'); insert into assigned to values(11,121,'manager'); insert into assigned to values(12,122,'team_lead')
```

insert into assigned_to values(11,121, manager); insert into assigned_to values(12,122,'team_lead'); insert into assigned_to values(13,123,'analyst'); insert into assigned_to values(14,124,'team_lead'); insert into assigned_to values(15,125,'manager'); insert into assigned_to values(16,126,'programmer'); insert into assigned_to values(17,127,'team_lead'); insert into assigned_to values(19,128,'team_lead');

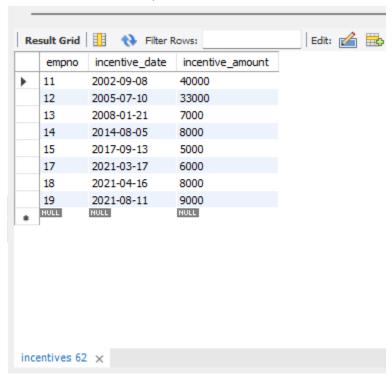
select *from dept;



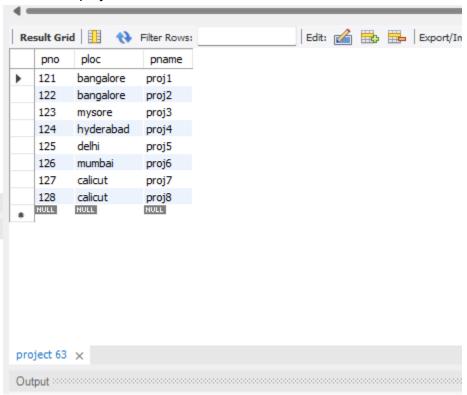
select *from employee;



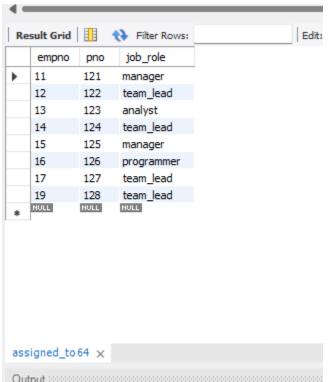
select *from incentives;



select *from project;

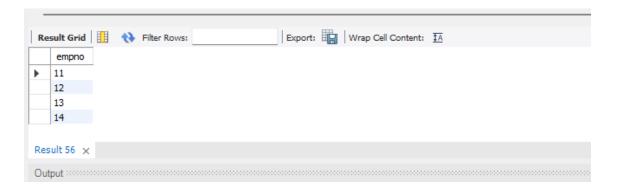


select *from assigned_to;



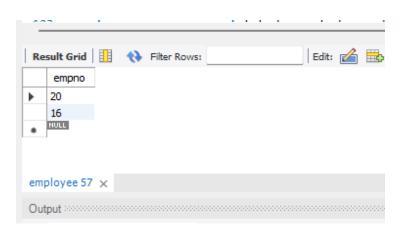
3. Retrieve the employee numbers of all employees who work on projects located in Bengaluru, Hyderabad, or Mysuru.

```
select a.empno
from assigned_to a, project p
where p.pno=a.pno and p.ploc in(
select ploc
from project
where ploc='bangalore' or ploc='hyderabad' or ploc='mysore'
);
```



4.Get Employee IDs of those employees who didn't receive incentives.

select e.empno from employee e where e.empno not in(select empno from incentives);



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.ename, d.dname, a.job role
from employee e, dept d, assigned to a
where e.deptno=d.deptno and a.empno=e.empno and e.empno in (
select empno
from incentives
where incentive amount = (select max(incentive AMOUNT) from incentives where
incentive date between '2021-01-01' and '2021-12-31')
);
                                           Export: Wrap Cell Content: IA
  ename
                                     dloc
                                               ploc
             empno dname job_role
    Rajesh
             11
                                     bangalore
                                              bangalore
                    cse
                           manager
             12
                                     bangalore
                                              bangalore
    Ajay
                    ise
                           team_lead
    Bhavesh
            15
                                     delhi
                                              delhi
                    eee
                           manager
 Result 58 ×
```

Spot query

Find the employee name, dept name, job role of an employee who received maximum incentive in the year 2021.

```
select e.ename, d.dname, a.job_role from employee e, dept d, assigned_to a where e.deptno=d.deptno and a.empno=e.empno and e.empno in ( select empno from incentives where incentive_amount = (select max(incentive_AMOUNT) from incentives where incentive_date between '2021-01-01'and '2021-12-31') );
```

