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EMPLOYEE DATABASE

Week 5

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

```
create database 1bm21cs048 Employee;
use 1bm21cs048_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 double,
primary key(empno,incentive date),
foreign key(empno) references employee(empno) on update cascade on delete cascade
);
create table project
```

```
pno int,
ploc varchar(20),
pname varchar(20),
primary key(pno)
);

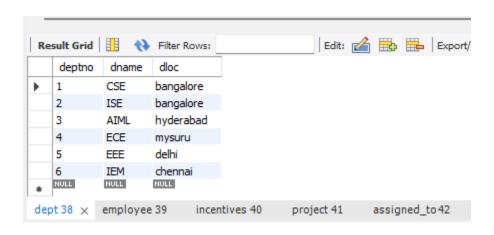
create table assigned_to
(
empno int,
pno int,
job_role varchar(20),
primary key(empno,pno),
foreign key(empno) references employee(empno) on update cascade on delete cascade,
foreign key(pno) references project(pno) on update cascade on delete cascade
);
```

2. Enter greater than five tuples for each table.

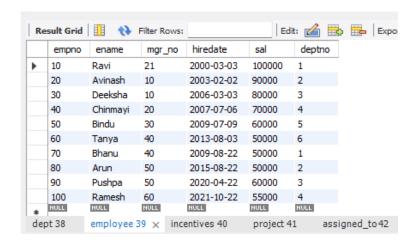
```
insert into dept values(1,'CSE','bangalore');
insert into dept values(2,'ISE','bangalore');
insert into dept values(3,'AIML','hyderabad');
insert into dept values(4,'ECE','mysuru');
insert into dept values(5,'EEE','delhi');
insert into dept values(6,'IEM','chennai');
insert into employee values(10,'Ravi',21,'2000-03-03',100000,1);
insert into employee values(20,'Avinash',10,'2003-02-02',90000,2);
insert into employee values(30, 'Deeksha', 10, '2006-03-03', 80000, 3);
insert into employee values(40, 'Chinmayi', 20, '2007-07-06', 70000, 4);
insert into employee values(50, 'Bindu', 30, '2009-07-09', 60000, 5);
insert into employee values(60, 'Tanya', 40, '2013-08-03', 50000, 6);
insert into employee values(70, 'Bhanu', 40, '2009-08-022', 50000, 1);
insert into employee values(80,'Arun',50,'2015-08-022',50000,2);
insert into employee values(90, 'Pushpa', 50, '2020-04-022', 60000, 3);
insert into employee values(100, 'Ramesh', 60, '2021-10-022', 55000, 4);
insert into incentives values(10,'2002-09-02',30000);
insert into incentives values(20,'2005-06-04',20000);
insert into incentives values(30,'2008-02-25',10000);
insert into incentives values(40,'2014-06-02',5000);
insert into incentives values(50,'2017-09-06',3000);
insert into incentives values(70,'2021-12-06',6000);
insert into incentives values(80,'2021-12-06',4000);
insert into incentives values(90,'2021-12-06',2000);
```

```
insert into project values(100,'bangalore','p1'); insert into project values(200,'bangalore','p2'); insert into project values(300,'mysuru','p3'); insert into project values(400,'hyderabad','p4'); insert into project values(500,'delhi','p5'); insert into project values(600,'mumbai','p6'); insert into project values(700,'kolkata','p7'); insert into project values(700,'kolkata','p7'); insert into assigned_to values(20,200,'teamlead'); insert into assigned_to values(30,300,'analyst'); insert into assigned_to values(40,400,'programmer'); insert into assigned_to values(50,500,'teamlead'); insert into assigned_to values(60,600,'manager'); insert into assigned_to values(70,700,'teamlead'); insert into assigned_to values(70,700,'teamlead');
```

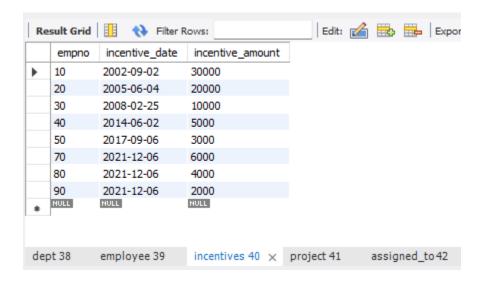
select * from dept;



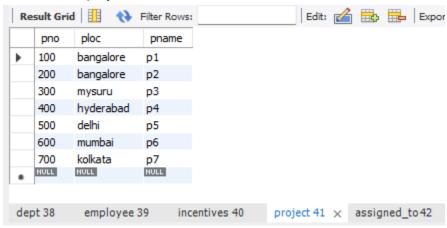
select * from employee;



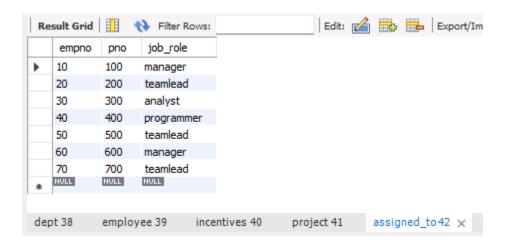
select * from incentives;



select * from project;

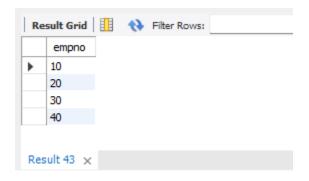


select * from assigned to;



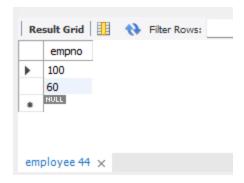
3. Retrieve the employee numbers of all employees who work on project located in Bengaluru, Hyderabad, or Mysuru

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



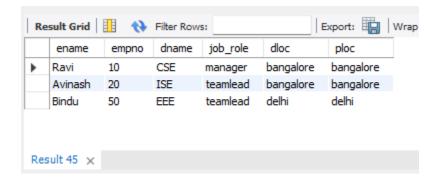
4. Get Employee ID's of those employees who didn't receive incentives

select empno from employee where 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, e.empno,d.dname,a.job_role, d.dloc,p.ploc from employee e, dept d, project p, assigned_to a where d.deptno=e.deptno and p.pno=a.pno and a.empno=e.empno and p.ploc=d.dloc;



On spot Query: Find the employee name, dept name, and job_role of an employee who received maximum incentive in year 2021.

