Week 5-Employee Database

Create database 1BM21CS113\_Employee;

use 1BM21CS113\_Employee;

create table Dept

(

deptno int primary key,

dname varchar(30),

dloc varchar(40)

);

create table Employee

(

empno int primary key,

ename varchar(40),

mgr\_no int,

hiredate date,

sal decimal,

deptno int,

foreign key(deptno) references Dept(deptno) on delete cascade on update cascade

);

create table Project

(

pno int primary key,

ploc varchar(40),

pname varchar(40)

);

create table Assigned\_to

(

empno int,

pno int,

primary key(empno,pno),

foreign key(empno) references Employee(empno) on delete cascade on update cascade,

foreign key(pno) references Project(pno) on delete cascade on update cascade,

job\_role varchar(30)

);

create table Incentives

(

empno int,

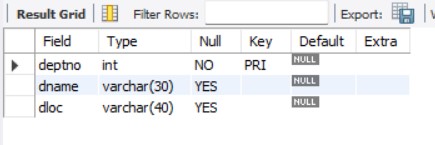
incentive\_date date,

primary key(empno,incentive\_date),

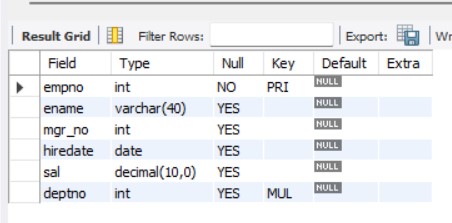
foreign key(empno) references Employee(empno) on delete cascade on update cascade,

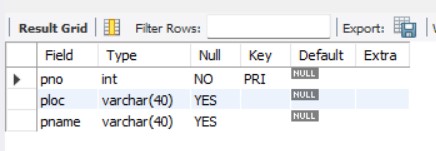
incentive\_amt decimal

);

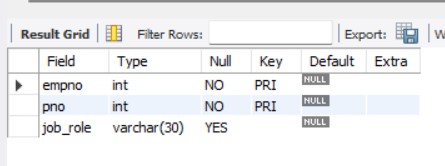
desc Dept;

desc Employee;

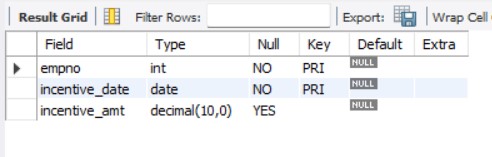


desc Project;

desc Assigned\_to;



desc Incentives;



insert into Dept values(01,"Accounts","Banglore");

insert into Dept values(02,"HR","Banglore");

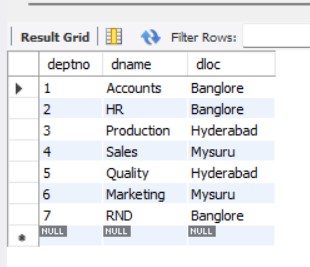
insert into Dept values(03,"Production","Hyderabad");

insert into Dept values(04,"Sales","Mysuru");

insert into Dept values(05,"Quality","Hyderabad");

insert into Dept values(06,"Marketing","Mysuru");

insert into Dept values(07,"RND","Banglore");

select \* from Dept;

insert into Employee values(10,"John","001","2017-04-12",50000,01);

insert into Employee values(11,"Bob","002","2018-05-11",40000,01);

insert into Employee values(12,"Kavita","003","2016-10-14",100000,02);

insert into Employee values(13,"Aliya","004","2015-04-16",55000,03);

insert into Employee values(14,"Ayan","005","2014-04-12",110000,02);

insert into Employee values(15,"Avinash","006","2014-09-20",60000,04);

insert into Employee values(16,"Aditi","007","2013-11-11",90000,07);

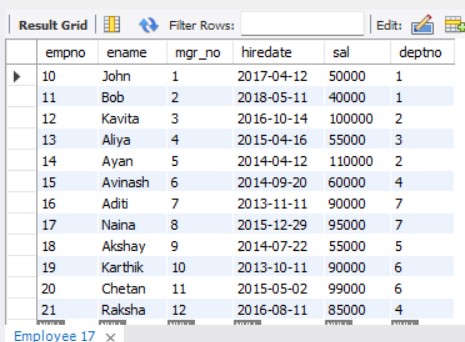
insert into Employee values(17,"Naina","008","2015-12-29",95000,07);

insert into Employee values(18,"Akshay","009","2014-07-22",55000,05);

insert into Employee values(19,"Karthik","010","2013-10-11",90000,06);

insert into Employee values(20,"Chetan","011","2015-05-02",99000,06);

insert into Employee values(21,"Raksha","012","2016-08-11",85000,04);

select \* from Employee;

insert into Project values(1,"Banglore","Satellite Mapping");

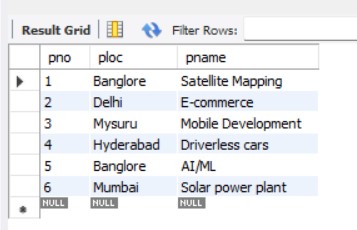
insert into Project values(2,"Delhi","E-commerce");

insert into Project values(3,"Mysuru","Mobile Development");

insert into Project values(4,"Hyderabad","Driverless cars");

insert into Project values(5,"Banglore","AI/ML");

insert into Project values(6,"Mumbai","Solar power plant");

select \* from Project;

insert into Assigned\_to values(10,1,"Manager");

insert into Assigned\_to values(11,1,"Production head");

insert into Assigned\_to values(12,5,"Financial Advisor");

insert into Assigned\_to values(13,4,"Manager");

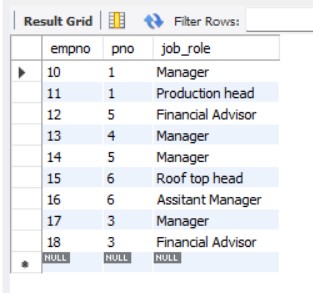
insert into Assigned\_to values(14,5,"Manager");

insert into Assigned\_to values(15,6,"Roof top head");

insert into Assigned\_to values(16,6,"Assitant Manager");

insert into Assigned\_to values(17,3,"Manager");

insert into Assigned\_to values(18,3,"Financial Advisor");

select \* from Assigned\_to;

insert into Incentives values(11,"2020-12-13",12000);

insert into Incentives values(14,"2021-06-29",20000);

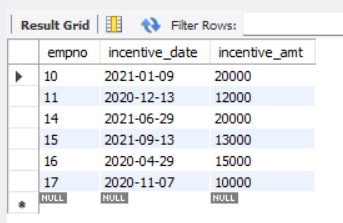
insert into Incentives values(15,"2021-09-13",13000);

insert into Incentives values(17,"2020-11-07",10000);

insert into Incentives values(10,"2021-01-09",20000);

insert into Incentives values(16,"2020-04-29",15000);

select \* from Incentives;



Queries:

1. select e.empno, e.ename

from Employee e,Project p,Assigned\_to a

where e.empno=a.empno and

a.pno=p.pno and

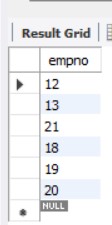
p.ploc in("Banglore","Hyderabad","Mysuru");



2. select empno

from Employee

where empno not in(select empno from Incentives);



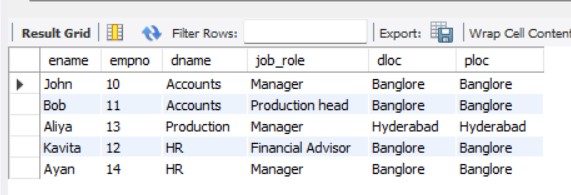
3. select e.ename,e.empno,d.dname,a.job\_role,d.dloc,p.ploc

from Employee e, Dept d, Assigned\_to a,Project p

where e.deptno=d.deptno and

a.empno=e.empno and

a.pno=p.pno and

 p.ploc=d.dloc;

Week 6 queries:

insert into Employee values(10,"John","001","2017-04-12",50000,01);

insert into Employee values(11,"Bob","002","2018-05-11",40000,01);

insert into Employee values(12,"Kavita","003","2016-10-14",100000,02);

insert into Employee values(13,"Aliya","004","2015-04-16",55000,03);

insert into Employee values(14,"Ayan","005","2014-04-12",110000,02);

insert into Employee values(15,"Avinash","006","2014-09-20",60000,04);

insert into Employee values(16,"Aditi","007","2013-11-11",90000,07);

insert into Employee values(17,"Naina","008","2015-12-29",95000,07);

insert into Employee values(18,"Akshay","009","2014-07-22",55000,05);

insert into Employee values(19,"Karthik","010","2013-10-11",90000,06);

insert into Employee values(20,"Chetan","011","2015-05-02",99000,06);

insert into Employee values(21,"Raksha","012","2016-08-11",85000,04);

insert into Employee values(006,"Ramya",001,"2017-09-09",36000,01);

insert into Employee values(007,"Nikhil",001,"2018-10-10",67000,01);

insert into Employee values(001,"Neha",004,"2014-11-11",100000,03);

insert into Employee values(002,"Ram",004,"2016-07-12",56000,03);

insert into Employee values(003,"Ranvijay",002,"2019-08-08",34000,04);

insert into Employee values(004,"Raftaar",001,"2018-04-03",45000,05);

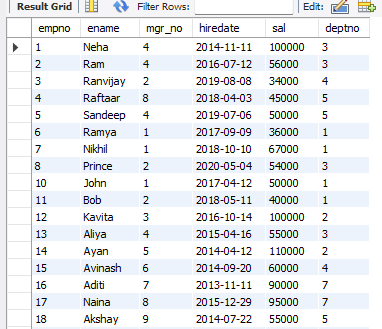
insert into Employee Values(005,"Sandeep",004,"2019-07-06",50000,05);

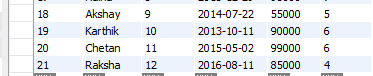
insert into Employee values(008,"Prince",002,"2020-05-04",54000,03);

update Employee

set mgr\_no=008 where ename="Raftaar";

select \* from Employee;





1. select m.ename

from Employee e, Employee m

where e.mgr\_no=m.empno

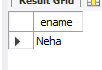
group by m.ename

having count(\*)=(select max(MyCount)

from (select count(\*) as MyCount

from Employee

group by mgr\_no)a);



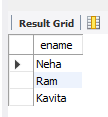
2. select m.ename

from Employee m

where m.sal>= (select avg(e.sal)

from Employee e

where m.empno=e.mgr\_no

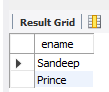
 group by e.mgr\_no);

3. select e.ename

from Employee e,Employee m

where e.mgr\_no=m.empno and

e.deptno=m.deptno;



4. select \* from

Employee e, Incentives i

where e.empno=i.empno and

1=(select count(distinct j.incentive\_amt)

from Incentives j

where i.incentive\_amt<j.incentive\_amt and j.incentive\_date like "2020%") and i.incentive\_date like "2020%" ;



5. select g. ename

from Employee e, Employee m, Employee g

where e.mgr\_no=m. empno and

m.mgr\_no=g.empno

group by g.deptno;

