week 6

TO DO

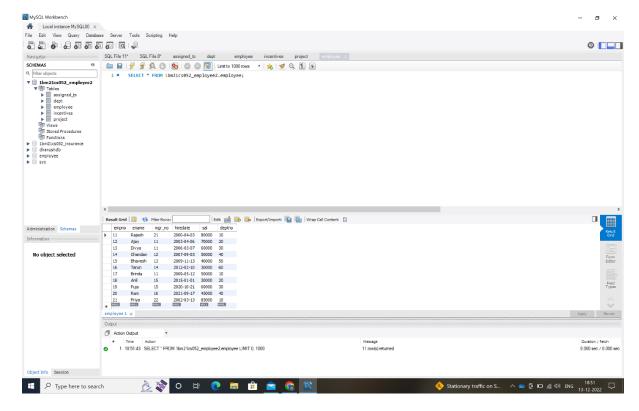
1.Using Scheme diagram, Create tables by properly specifying the primary keys and the foreign keys.

```
create database 1bm21cs052_employee2;
use 1bm21cs052_employee2;
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', 11, '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 employee values(21, 'Priya', 22, '2002-03-13', 85000, 10);
insert into incentives values(11,'2012-09-08',40000);
insert into incentives values(12, '2015-07-10', 33000);
insert into incentives values(13,'2019-01-21',7000);
insert into incentives values(14,'2019-01-05',8000);
insert into incentives values(15,'2019-01-13',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');
```

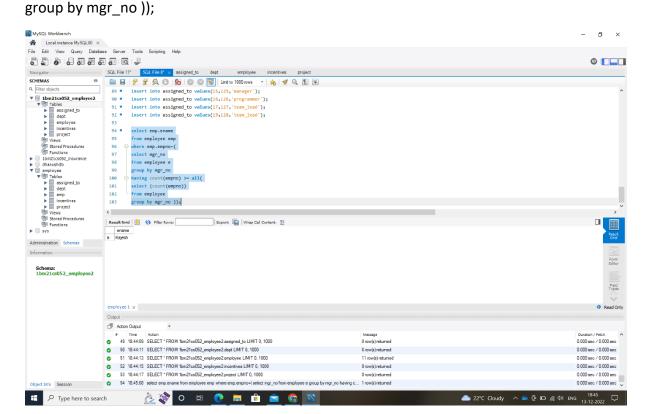
```
insert into assigned_to values(11,121,'manager'); insert into assigned_to values(12,122,'team_lead'); insert into assigned_to values(13,123,'analyst'); insert into assigned_to values(14,124,'team_lead'); insert into assigned_to values(15,125,'manager'); insert into assigned_to values(16,126,'programmer');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



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

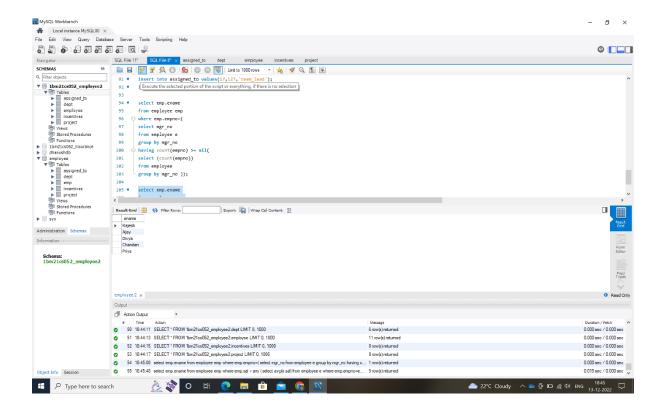
select emp.ename
from employee emp
where emp.empno=(
select mgr_no
from employee e
group by mgr_no

```
having count(empno) >= all(
select (count(empno))
from employee
```



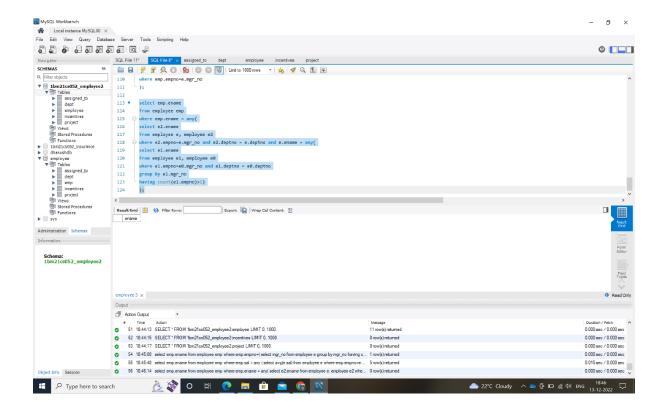
4. Display those managers name whose salary is more than average salary of his employee.

```
select emp.ename
from employee emp
where emp.sal > any (
select avg(e.sal)
from employee e
where emp.empno=e.mgr_no
);
```



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

```
select emp.ename
from employee emp
where emp.ename = any(
select e2.ename
from employee e, employee e2
where e2.empno=e.mgr_no and e2.deptno = e.deptno and e.ename = any(
select e1.ename
from employee e1, employee e0
where e1.empno=e0.mgr_no and e1.deptno = e0.deptno
group by e1.mgr_no
having count(e1.empno)>1)
);
```



6. Find the employee details who got second maximum incentive in January 2019.

select i.empno, i.incentive_date, max(i.incentive_amount)second_max

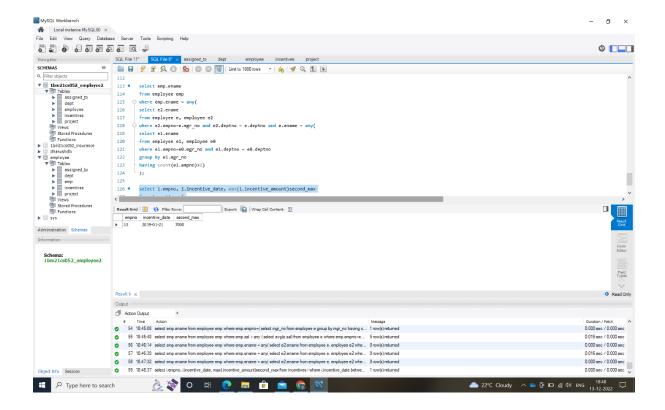
from incentives i

where i.incentive_date between '2019-01-01' and '2019-01-31' and i.incentive_amount not in(

select max(incentive_amount)

from incentives

where incentive date between '2019-01-01' and '2019-01-31');

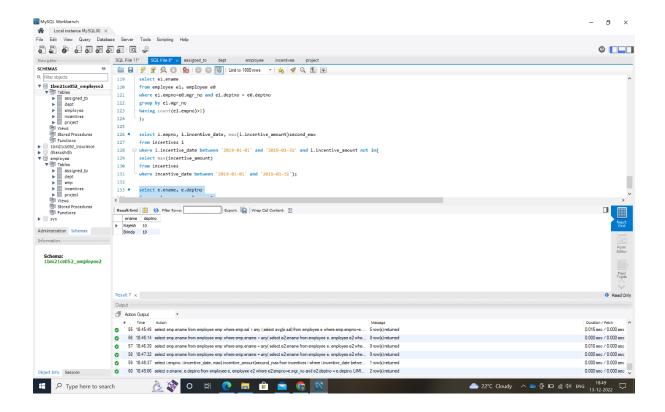


7. Display those employees who are working in the same department where his manager is working.

select e.ename, e.deptno

from employee e, employee e2

where e2.empno=e.mgr no and e2.deptno = e.deptno;



Spot query-Find the employee details who got third maximum incentive in January 2019

select i.empno, i.incentive_amount

from incentives i

where 3 = (

select count(*)

from incentives j

where incentive_date between '2019-01-01' and '2019-01-31' and i.incentive_amount <=

j.incentive_amount)

and incentive date between '2019-01-01' and '2019-01-31';

