WEEK 5 - Employee database

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

2. Enter greater than five tuples for each table.

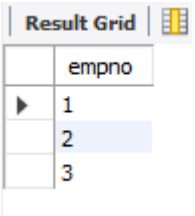
```
create database snigdha_employee1;
use snigdha_employee1;

create table dept
(deptno char(10),
dname char(10),
dloc char (10),
primary key (deptno)
);

create table employee_details
(
empno char(10),
ename char(10),
mgr_no char(10),
hiredate char(10),
sal int,
deptno char(10),
primary key(empno),
foreign key(deptno) references dept(deptno)on delete cascade
);

create table project(
pno int,
ploc char(10),
pname char(10),
primary key(pno)
);

create table assigned_to(
empno char(10),
pno int,
```

```
job_role char(10),
primary key(empno,pno),
foreign key(empno) references employee_details(empno)on delete cascade,
foreign key(pno) references project(pno)on delete cascade
);

create table incentives(
empno char(10),
incentive_date char(10),
incentive_amount char(10),
primary key(empno,incentive_date),
foreign key(empno) references employee_details(empno) on delete cascade
);

insert into dept
values('11','CSE','PJA_5'),('12','ISE','PJA_5'),('13','AIML','PG'),('14','ECE','MechBlock1'),
('15','MECH','MechBlock2');

insert into employee_details
values('1','Jin','5','6/12/1992','50000','11'),('2','RM','5','12/09/1994','10000','11'),('3','Jimin','5','1
3/10/1995','11000','12'),
('4','Jungkook','5','1/09/1997','30000','13'),('5','Tae','5','30/12/1995','30000','14');

insert into project
values('1','bangalore','rasberry'),('2','mysore','IC'),('3','bangalore','theatre'),('4','chennai','spam'),
('5','mu
mbai','limepin');

insert into assigned_to
values('1','1','sales'),('2','2','marketing'),('3','3','teaching'),('4','4','helping'),('5','5','design');

insert into incentives
values('1','02/11/2020','5000'),('2','29/11/2012','9000'),('3','08/03/2021','10000'),('4','09/08/20
22','3000
'),('5','03/03/2019','20000');
```

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

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

output -

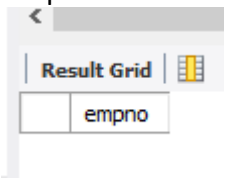


	empno
▶	1
	2
	3

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

```
select e.empno
from employee_details e,incentives i
where e.empno not in (select empno from incentives);
```

output-

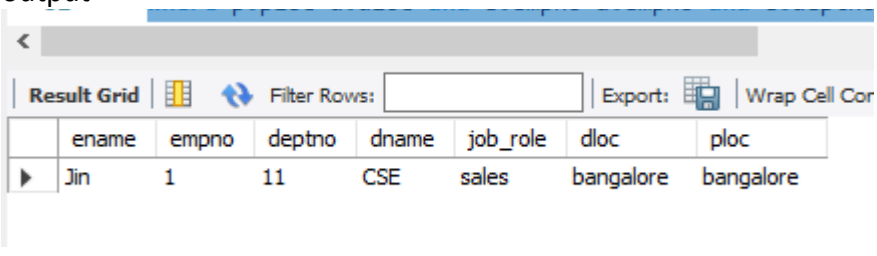


	empno

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.

```
update dept set dloc='bangalore' where deptno='11';
update dept set dloc='mysore' where deptno='12';
update dept set dloc='hubli' where deptno='13';
update dept set dloc='udupi' where deptno='14';
update dept set dloc='mumbai' where deptno='15';

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

output-



	ename	empno	deptno	dname	job_role	dloc	ploc
▶	Jin	1	11	CSE	sales	bangalore	bangalore

6. (Spot query) Find name of employee, dept name and job roles of an employee who received highest incentive in the year 2021.

update incentives set incentive_date='08/03/2021' where empno='3';

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