## Week 5

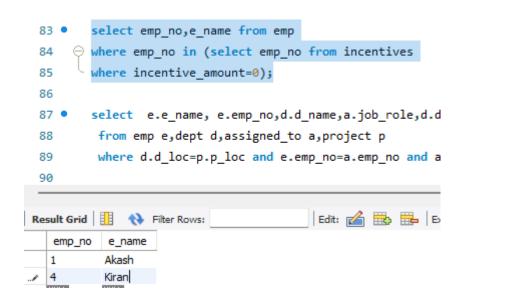
```
create database employee;
use employee;
create table dept(
dept_no int,
d_name varchar(10),
d loc varchar(20),
primary key(dept_no)
);
create table emp(
emp_no int,
e_name varchar(10),
mgr_no int,
hiredate date.
sal real,
dept_no int,
primary key(emp_no),
foreign key (dept_no) references dept(dept_no)
);
create table incentives(
emp_no int,
incentive_date date,
incentive_amount real,
primary key(incentive_date),
foreign key (emp_no) references emp(emp_no)
);
create table project(
p_no int,
p_name varchar(20),
p loc varchar(20),
primary key(p_no)
create table assigned_to(
emp_no int,
p_no int,
job_role varchar(20),
foreign key (emp_no) references emp(emp_no),
foreign key (p_no) references project(p_no)
);
insert into dept values(1,'CSE','Siddapur');
insert into dept values(2,'ISE','Sirsi');
insert into dept values(3,'ECE','Pune');
insert into dept values(4,'EEE','Hubli');
insert into dept values(5,'IM','Mumbai');
insert into dept values(6,'BT','Goa');
select *from dept;
insert into emp values(1,'Akash',7,'2020-01-12',20000,4);
```

```
insert into emp values(2, 'Bhuvan', 8, '2020-03-14', 40000, 1);
insert into emp values(3,'Chris',9,'2021-02-25',35000,2);
insert into emp values(4, 'Kiran', 10, '2021-11-30', 60000, 6);
insert into emp values(5, 'Pavan', 11, '2022-3-10', 52000, 3);
insert into emp values(6, 'Santosh', 12, '2022-5-24', 48000, 5);
select *from emp;
insert into project values(1,'pro1','Bengaluru');
insert into project values(2,'pro2','Pune');
insert into project values(3,'pro3','Hyderabad');
insert into project values(4,'pro4','Kerala');
insert into project values(5,'pro5','Mysuru');
insert into project values(6,'pro6','Sirsi');
select *from project;
insert into incentives values(1,'2021-01-12',15000);
insert into incentives values(2,'2021-12-12',8000);
insert into incentives values(3,'2022-06-09',6500);
insert into incentives values(4,'2022-11-29',11000);
insert into incentives values(5,'2023-05-30',9800);
insert into incentives values(6,'2023-08-17',7000);
select *from incentives;
insert into assigned_to values(1,1,'Developer');
insert into assigned to values(2,2,'Assistant');
insert into assigned_to values(3,3,'Co-assistant');
insert into assigned to values(4,4,'Organiser');
insert into assigned_to values(5,5,'Manager');
insert into assigned_to values(6,6,'Supervisor');
select *from assigned_to;
To do:
select emp_no from assigned_to a
where p no in (select p no from project where p loc in ('Bengaluru', 'Hyderabad', 'Mysuru'));
select emp_no,e_name from emp
where emp_no in (select emp_no from incentives
where incentive amount=0);
select e.e_name, e.emp_no,d.d_name,a.job_role,d.d_loc,p.p_loc
from emp e,dept d,assigned_to a,project p
where d.d_loc=p.p_loc and e.emp_no=a.emp_no and a.p_no=p.p_no;
select e.e_name,max(i.incentive_amount),d.d_name,a.job_role
from emp e,dept d,assigned_to a,incentives i
where e.emp no in(select emp no
from incentives
where incentive amount=
(select max(incentive_amount)
from incentives
```

where incentive\_date between'2022-01-01'and '2022-12-31')) and d.dept\_no=e.dept\_no and a.emp\_no=e.emp\_no;

## **OUTPUT:**

```
select emp_no from assigned_to a
 80 •
 81
       where p_no in (select p_no from project where p_loc in ('Bengaluru','Hyderabad','Mysuru'));
 82
 83 •
       select emp_no,e_name from emp
    84
 85
       where incentive_amount=0);
 86
 87 •
       select e.e_name, e.emp_no,d.d_name,a.job_role,d.d_loc,p.p_loc
 88
        from emp e,dept d,assigned_to a,project p
        where d.d_loc=p.p_loc and e.emp_no=a.emp_no and a.p_no=p.p_no;
 89
Export: Wrap Cell Content: IA
  emp_no
  1
  3
  5
```



```
select e.e_name, e.emp_no,d.d_name,a.job_role,d.d_loc,p.p_loc
87 •
         from emp e,dept d,assigned_to a,project p
88
         where d.d_loc=p.p_loc and e.emp_no=a.emp_no and a.p_no=p.p_no;
89
90
Export: Wrap Cell Content: $\frac{1}{2}$
           emp_no d_name
                                     d_loc
                                           p_loc
  e_name
                           job_role
          2
                                          Pune
  Bhuvan
                  ECE
                          Assistant
                                    Pune
  Santosh
          6
                  ISE
                          Supervisor
                                    Sirsi
                                          Sirsi
```