# Week 5 Employee database

1BM21CS044

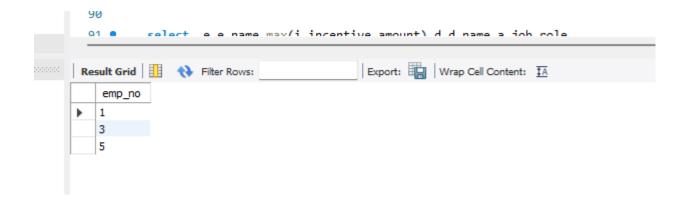
```
create database employee;
use employee;
create table dept(
dept_no int,
d name varchar(10),
d_loc varchar(20),
primary key(dept_no)
);
create table emp(
emp_no int,
e_name varchar(10),
mgr_no int,
hiredate date,
sal real,
dept no int,
primary key(emp_no),
foreign key (dept_no) references dept(dept_no)
);
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',00000);
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',0000);
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;
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;

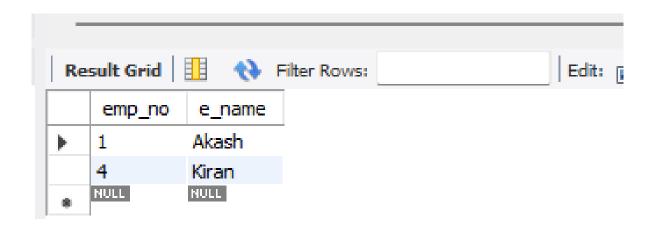
## **QUERY 1**

select emp\_no from assigned\_to a where p\_no in (select p\_no from project where p\_loc in ('Bengaluru','Hyderabad','Mysuru'));



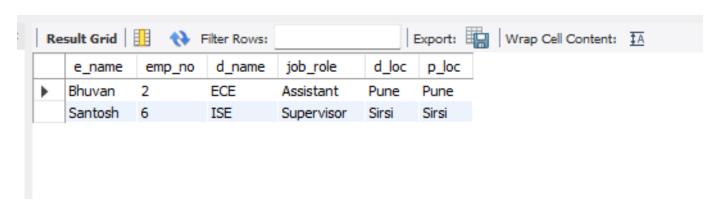
# **QUERY 2**

select emp\_no,e\_name from emp
where emp\_no in (select emp\_no from incentives
where incentive\_amount=0);



## **QUERY 3**

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;



#### **SPOT QUERY**

```
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;
```

