

```
create database 1bm21cs036_emp_id;
use 1bm21cs036_emp_id;
create table dept(
d_no int,
d_name varchar (10),
d_loc varchar (30),
primary key(d_no)
);
create table project(
p_no int,
p_loc varchar(20),
p_name varchar(15),
PRIMARY KEY(p_no)
);
create table employee(
emp_no int,
emp_name varchar(10),
mgr_no int,
hiredate date,
sal real,
d_no int,
primary key(emp_no),
foreign key(d_no) references dept(d_no)
on update cascade on delete cascade
);

create table incentives(
emp_no int,
incentive_date date,
incentive_amt real,
primary key(incentive_date),
```

```
foreign key(emp_no) references employee(emp_no)
on update cascade on delete cascade
);
```

```
create table assigned(
emp_no int,
p_no int,
job_role varchar(10),
```

```
foreign key(emp_no) references employee(emp_no)
on update cascade on delete cascade,
foreign key(p_no) references project(p_no)
on update cascade on delete cascade
);
```

```
select *from employee;
```

```
select *from assigned;
```

```
select *from incentives;
```

```
select *from project;
```

```
select *from dept;
```

```
insert into dept values(100,'IT','mysore');
```

```
insert into dept values(200,'Marketing','patna');
```

```
insert into dept values(300,'HR','delhi');
```

```
insert into dept values(400,'finance','panaji');
```

```
insert into dept values(500,'logistics','bangalore');
```

```
insert into dept values(600,'accounts','ahmedabad');
```

```
insert into dept values(700,'design','hydrebad');
```

```
insert into project values(10,'mysore','alpha');
```

```
insert into project values(20,'patna','beta');
```

```
insert into project values(30,'delhi','gama');
```

```
insert into project values(40,'panaji','delta');
```

```
insert into project values(50,'bangalore','omega');
```

```
insert into project values(60,'ahmedabad','sine');
```

```
insert into employee values(01,'charlie',11,'2001-01-01',10000,500);
insert into employee values(02,'michel',22,'2002-02-02',15000,100);
insert into employee values(03,'suzan',33,'2003-03-03',20000,300);
insert into employee values(04,'velvet',44,'2004-04-04',25000,200);
insert into employee values(05,'june',55,'2005-05-05',30000,500);
insert into employee values(06,'july',66,'2006-06-06',35000,500);
insert into employee values(07,'autumn',77,'2007-07-07',40000,400);
insert into employee values(08,'daisy',88,'2008-08-08',45000,100);
insert into employee values(09,'april',99,'2009-09-09',50000,200);
insert into employee values(10,'spring',111,'2010-10-10',55000,300);
```

```
insert into incentives values(01,'2021-05-11',1000);
insert into incentives values(03,'2022-04-20',1500);
insert into incentives values(05,'2021-09-10',2000);
insert into incentives values(07,'2022-06-21',2500);
insert into incentives values(09,'2021-04-17',3000);
insert into incentives values(10,'2022-10-19',3500);
```

```
insert into assigned values(01,20,'architect');
insert into assigned values(02,10,'peon');
insert into assigned values(03,30,'supervisor');
insert into assigned values(04,60,'assistant');
insert into assigned values(05,50,'mason');
insert into assigned values(06,50,'manager');
insert into assigned values(07,40,'medic');
insert into assigned values(08,60,'mechanic');
insert into assigned values(09,30,'engineer');
insert into assigned values(10,30,'maid');
select *from employee;
select *from assigned;
select *from incentives;
```

```
select *from project;
```

```
select *from dept;
```

```
select emp_no from assigned,project where assigned.p_no=project.p_no and project.p_loc  
in('mysore','bangalore','hydrebad');
```

```
select e.emp_name,e.emp_no,d.d_name,a.job_role,d.d_loc,p.p_loc
```

```
from employee e, dept d, assigned a, project p
```

```
where d.d_no=e.d_no
```

```
and e.emp_no=a.emp_no
```

```
and a.p_no=p.p_no
```

```
and p.p_loc=d.d_loc;
```

```
select e.emp_name,d.d_name,a.job_role
```

```
from employee e,dept d,assigned a
```

```
where e.emp_no in (select emp_no
```

```
from incentives
```

```
where incentive_amt=
```

```
(select max(incentive_amt)
```

```
from incentives
```

```
where incentive_date between'2021-01-01' and '2021-12-31'))
```

```
and d.d_no=e.d_no and a.emp_no=e.emp_no;
```

	emp_no	emp_name	mgr_no	hiredate	sal	d_no
▶	1	charlie	11	2001-01-01	10000	500
	2	michel	22	2002-02-02	15000	100
	3	suzan	33	2003-03-03	20000	300
	4	velvet	44	2004-04-04	25000	200
	5	june	55	2005-05-05	30000	500
	6	july	66	2006-06-06	35000	500
	7	automn	77	2007-07-07	40000	400
	8	daisy	88	2008-08-08	45000	100
	9	april	99	2009-09-09	50000	200
	10	spring	111	2010-10-10	55000	300

emp_no	p_no	job_role
1	20	architect
2	10	peon
3	30	supervisor
4	60	assistant
5	50	mason
6	50	manager
7	40	medic
8	60	mechanic
9	30	engineer
10	30	maid

emp_no	incentive_date	incentive_amt
9	2021-04-17	3000
1	2021-05-11	1000
5	2021-09-10	2000
3	2022-04-20	1500
7	2022-06-21	2500
10	2022-10-19	3500

p_no	p_loc	p_name
10	mysore	alpha
20	patna	beta
30	delhi	gama
40	panaji	delta
50	bangalore	omega
60	ahmedabad	sin

d_no	d_name	d_loc
100	IT	mysore
200	Marketing	patna
300	HR	delhi
400	finance	panaji
500	logistics	bangalore
600	accounts	ahmedabad
700	design	hydrebad

emp_no
2
5
6

emp_no
2
8
4
6

emp_name	emp_no	d_name	job_role	d_loc	p_loc
Michel	2	IT	peon	Mysore	Mysore
Suzan	3	HR	supervisor	Delhi	Delhi
Spring	10	HR	maid	Delhi	Delhi
Autumn	7	Finance	medic	Panaji	Panaji
June	5	Logistics	mason	Bangalore	Bangalore
July	6	Logistics	manager	Bangalore	Bangalore

	emp_name	d_name	job_role
▶	April	Marketing	engineer