WEEK 5 - DBMS LAB

By V. Kenny Philip

```sql
create database employee;

use employee;

create table dept(

dept_no int,

d_name varchar(20),

d_loc varchar(20),

primary key(dept_no)

);

create table project(

p_no int,

p_name varchar(20),

p_loc varchar(20),

primary key(p_no)

);

create table employee(

emp_no int,

e_name varchar(20),

mgr_no int,

hire_date date,

sal int,

dept_no int,

primary key(emp_no),
```

```sql
foreign key(dept_no) references dept(dept_no) on delete cascade
);
create table incentives(
emp_no int,
incentive_date date,
incentive_amt int,
primary key(emp_no, incentive_date),
foreign key(emp_no) references employee(emp_no) on delete cascade
);
create table assigned_to(
emp_no int,
p_no int,
job_role varchar(20),
primary key(emp_no, p_no),
foreign key(emp_no) references employee(emp_no) on delete cascade,
foreign key(p_no) references project(p_no) on delete cascade
);
insert into dept values(1,'survey','Bangalore');
insert into dept values(2,'architecture','Hyderabad');
insert into dept values(3,'Test Team','Mysore');
insert into dept values(4,'Finance','Delhi');
insert into dept values(5,'Engineering','Bombay');
```

```sql
insert into dept values(6,'R and D','Dharwad');

insert into project values(1,'Royal Bridge','Bangalore');
insert into project values(2,'Hotel Management','Jammu');
insert into project values(3,'Railway Station','Chennai');
insert into project values(4,'Sunshine Motors','Bombay');
insert into project values(5,"Vedang's Restaurant",'Mangalore');
insert into project values(6,'Central Airport','Goa');
insert into project values(7,'Theme Park','Mysore');
insert into project values(8,'JJ college','Hyderabad');

insert into employee values(10,'Dev',101,'2016-11-21',50000,2);
insert into employee values(11,'Arjun',102,'2015-1-12',20000,3);
insert into employee values(12,'Rahul',103,'2016-11-21',35000,6);
insert into employee values(13,'Sam',104,'2020-12-21',60000,5);
insert into employee values(14,'Kenny',105,'2019-09-15',15000,6);
insert into employee values(15,'Ram',106,'2012-05-13',50000,4);
insert into employee values(16,'Varun',107,'2021-07-01',20000,1);
insert into employee values(17,'Jay',108,'2016-04-13',40000,2);

insert into incentives values(13,'2021-11-5',5000);
insert into incentives values(11,'2019-01-21',2000);
insert into incentives values(14,'2020-10-15',8000);
insert into incentives values(15,'2015-11-15',10000);
```

```sql
insert into incentives values(15,'2021-11-05',9000);


insert into assigned_to values(10,2,'Leader');
insert into assigned_to values(17,2,'Architect');
insert into assigned_to values(11,3,'Testing Lead');
insert into assigned_to values(13,1,'Site Engineering');
insert into assigned_to values(13,3,'Site Engineering');
insert into assigned_to values(14,3,'Survey Lead');
insert into assigned_to values(15,6,'Finanace Manager');
insert into assigned_to values(10,4,'Architect');
insert into assigned_to values(15,5,'Finance Manager');
insert into assigned_to values(14,1,'Survey Lead');
insert into assigned_to values(11,7,'Testing Lead');
insert into assigned_to values(10,5,'Leader');
SET FOREIGN_KEY_CHECKS=0;
SET GLOBAL FOREIGN_KEY_CHECKS=0;
```
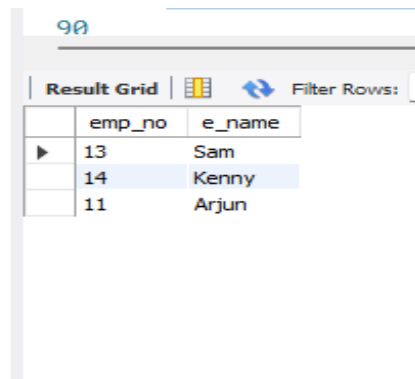
QUERIES

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

select distinct e.emp_no,e.e_name

from employee e,assigned_to a,project p

where e.emp_no=a.emp_no and a.p_no=p.p_no

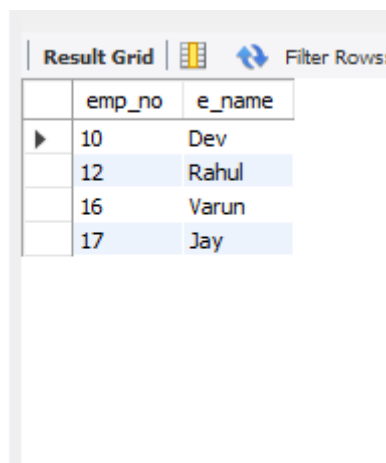and p.p_loc IN('Bangalore','Hyderabad','Mysore');

```
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Result Grid    Filter Rows:
   emp_no    e_name
▶  13        Sam
   14        Kenny
   11        Arjun
```

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

select distinct e.emp_no,e.e_name

from employee e,incentive i

where e.emp_no not in(select i.emp_no from incentive i);

```
Result Grid    Filter Rows:
   emp_no    e_name
▶  10        Dev
   12        Rahul
   16        Varun
   17        Jay
```

3. 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.

select distinct
e.e_name,e.emp_no,d.dept_no,a.job_role,p.p_loc,d.d_loc

from employee e,dept d,assigned_to a,project p

where e.emp_no=a.emp_no and d.dept_no=e.dept_no

and a.p_no =p.p_no and p.p_loc=d.d_loc;

e_name	emp_no	dept_no	job_role	p_loc	d_loc
Arjun	11	3	Testing Lead	Mysore	Mysore