**Week-5**

**To Dos**

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

Code:

create database employee;

use employee;

create table project(

p\_no int primary key,

p\_loc varchar(40),

p\_name varchar(40)

);

create table dept(

dept\_no int primary key,

d\_name varchar(40),

d\_loc varchar(40)

);

create table employee(

emp\_no int primary key,

e\_name varchar(40),

mgr\_no int,

hire\_date date,

sal int,

dept\_no int,

foreign key (dept\_no) references dept(dept\_no) on delete cascade

);

create table incentives(

emp\_no int,

incentive\_date date primary key,

incentive\_amount int,

foreign key (emp\_no) references employee(emp\_no) on delete cascade

);

create table assigned\_to(

emp\_no int,

p\_no int,

job\_role varchar(50),

foreign key (p\_no) references project(p\_no) on delete cascade,

foreign key (emp\_no) references employee(emp\_no) on delete cascade);

**2) Enter greater than five tuples for each table.**

Code:

insert into project values(1,"Beng","p\_1"),

(2,"Guj","p\_2"),

(3,"Mys","p\_3"),

(4,"Hyder","p\_4"),

(5,"Mumb","p\_5");

insert into dept values(10,"Sales","Beng"),

(20,"Finance","Bengal"),

(30,"Marketing","Bihar"),

(40,"Purchase","Mumb"),

(50,"R&D","Hyder");

insert into employee values(100,"Prannay",400,"2003-01-01",100000,10),

(200,"Farhaan",500,"2004-02-02",100500,50),

(300,"Sanika",100,"2003-01-21",200500,30),

(400,"Sakshi", NULL ,"2008-02-17",300500,40),

(500,"Nishith",300,"2004-03-05",200700,40),

(600,"Sohan",200,"2005-11-01",200000,20),

(700,"Mahima",200,"2005-11-21",200900,20);

insert into incentives values(100,"2012-02-17",6000),

(200,"2012-05-21",7000),

(400,"2012-07-25",6500),

(500,"2013-04-19",7400),

(600,"2013-08-08",8000);

insert into assigned\_to values(100,1, "P\_Manager"),

(200,1, "R\_Manager"),

(300,2, "B\_Analyst"),

(400,3, "B\_Analyst"),

(500,3, "P\_Manager"),

(600,5, "R\_Manager");

**3) Retrieve the employee numbers of all employees who work on**

**project located in Bengaluru, Hyderabad, or Mysuru**

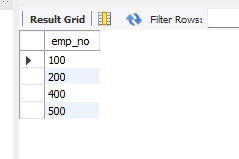
Query:

select ato.emp\_no

from project p, assigned\_to ato

where p.p\_no = ato.p\_no and p.p\_loc in ('Beng','Mys','Hyder');

Output:



**4) Get Employee ID’s of those employees who didn’t receive incentives**

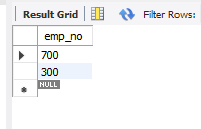
Query:

select emp\_no

from employee

where emp\_no not in( select emp\_no from incentives);

Output:



**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.**

Query:

select e.e\_name, e.emp\_no, ato.job\_role, d.d\_name, d.d\_loc, p.p\_loc

from employee e, dept d, project p, assigned\_to ato

where e.emp\_no = ato.emp\_no and p.p\_no = ato.p\_no and e.dept\_no = d.dept\_no and d.d\_loc=p.p\_loc;