**Create a table**

**Location(loc\_id, lname,address)**

**Server (sid,sname,configuration,lid, adminid)**

**Admin(adminid,username,password,mobile,name)**

Ans. create table if not exists location

(loc\_id int primary key,

lname varchar(100),

address varchar(100));

create table if not exists admin(

adminid int primary key,

username varchar(100),

password char(4) not null,

mobile varchar(100),

name varchar(100));

create table if not exists server(

sid int primary key,

sname varchar(100) not null,

configuration varchar(40),

lid int,

adminid int,

constraint fk\_ad foreign key server(adminid) references admin(adminid),

constraint fk\_lc foreign key server(sid) references location(loc\_id)

);

1. **display all server-name, location of the server**

Ans. select sname, lname

-> from server join location

-> on server.lid = location.loc\_id;

1. **display all server-name, admin-name, admin mobile**

Ans. select sname, username, mobile

-> from server s

-> inner join

-> admin a

-> on a.adminid = s.adminid;

1. **display all server which are managed by admin rohit**

Ans. select s.\*, a.username

from server s

inner join

admin a

on a.adminid = s.adminid

where username = 'rohit\_admin';

**4. display all server and the locations,**

**for which admin is rohit**

Ans. select s.\*, lname location, a.username

from (server s

inner join

admin a) inner join

location l

on s.lid = l.loc\_id

where username = 'rohit\_admin';

1. **display all admins, for whom no server is assigned**

Ans. select \* from admin a

-> where not exists (select \*

-> from server s

-> where s.adminid = a.adminid);

**6. display all servers and admin details, and also**

**display admins for whom no server is assigned**

Ans. select \* from

admin a

left outer join

server s

on

s.adminid = a.adminid;

1. **display servers, admins and location of the server**

Ans. select \*

from (server s

left outer join

admin a

on s.adminid = a.adminid)

inner join

location l

on

l.loc\_id = s.lid;

**8. to display all admins for whom no server is assigned**

**also display locations at which no server is placed**

Ans. select a.adminid, a.name, null loc\_id, null location

from admin a

where not exists (select \* from server s

where a.adminid = s.adminid)

Union

select null, null, loc\_id, lname

from location l

where not exists (select \* from server s

where s.lid = l.loc\_id);

1. **display all servers for which no location is assigned**

Ans. select \* from server s

where not exists(select \*

from location l

where l.loc\_id = s.lid);

**10. display all servers, for which no location is assigned,**

**whose admin is namrata**

Ans. select \* from (server s

inner join

location l

on

s.lid = l.loc\_id )

inner join

admin a

on a.adminid = s.adminid

where a.username = 'namrata';