**Queries set 1**

create database Electricity\_bill;

use Electricity\_bill;

1.create table electricity\_connection\_type(id int primary key ,connection\_name varchar(20) not null);

2.create table slab(id int primary key,connection\_type\_id int not null,from\_unit int(11) not null,to\_unit int(11) not null,rate double not null,foreign key(connection\_type\_id) references electricity\_connection\_type(id));

3.create table building\_type(id int primary key,name varchar(100) not null,connection\_type\_id int(11) not null,foreign key(connection\_type\_id) references electricity\_connection\_type(id));

4.create table building(id int(11) primary key,owner\_name varchar(100) not null,address varchar(100) not null,building\_type\_id int(11) not null,email\_address varchar(100),foreign key(building\_type\_id) references building\_type(id));

5.alter table building rename column owner\_name to building\_owner\_name;

6.alter table building modify column address varchar(255);

7.alter table electricity\_connection\_type add constraint connection\_name\_chk check(connection\_name='commercial' or connection\_name='home');

8.alter table building rename to building\_details;

9.drop table slab;

10.drop table building\_details;

11.insert into electricity\_connection\_type(id,connection\_name) values(1,'commercial'),(2,'home'),(3,'home'),(4,'home'),(5,'commercial');

12.insert into slab(id,connection\_type\_id,from\_unit,to\_unit,rate) values(5,1,1,3,50),(6,2,2,4,60),(7,3,3,6,70);

13.insert into building\_type(id,name,connection\_type\_id) values(1,'Shoppingmall',1),(2,'Theatre',2),(3,'School',3),(4,'Office',4),(5,'Service center',5);

14.update slab set from\_unit=1 where from\_unit=0;

15.update building\_type set name='Mall' where name='Shoppingmall';

16.delete from slab;

**Queries set 2**

1.select\*from electricity\_connection\_type order by connection\_name;

2. select\*from building\_type order by name;

3. select\*from building order by owner\_name;

create table meter(id int primary key,meter\_number varchar(100) not null,building\_id int(11) not null,foreign key(building\_id) references building(id));

create table electricity\_reading(id int primary key,meter\_id int(11) not null,day Date not null,h1 int(11),h2 int(11),

h3 int(11),h4 int(11),h5 int(11),h6 int(11),h7 int(11),h8 int(11),h9 int(11),h10 int(11),h11 int(11),h12 int(11),h13 int(11),h14 int(11),h15 int(11),h16 int(11),h17 int(11),h18 int(11),h19 int(11),h20 int(11),h21 int(11),h22 int(11),h23 int(11),h24 int(11),total\_units int(11) not null,foreign key(meter\_id) references meter(id));

4.select\*from electricity\_reading order by total\_units desc;

5.select meter\_number from meter;

alter table building add column contact\_number int(11);

6.select owner\_name,contact\_number from building order by owner\_name;

create table bill(id int(11) primary key,meter\_id int(11) not null,month int(11) not null,year int(11) not null,due\_date Date not null,total\_units int(11) not null,payable\_amount double not null,is\_payed\_tiny int(11) not null,payment\_date int(11),fine\_amount int(11),foreign key(meter\_id) references meter(id));

7.select total\_units,payable\_amount,fine\_amount from bill order by total\_units desc;

8.select\*from slab order by from\_unit;

9.select\*from building where owner\_name='Nicholas';

10.select\*from bill where total\_units>10000 order by total\_units desc;

11.select\*from bill where due\_date='2017-10-01' order by payable\_amount desc;

12.select owner\_name, address ,contact\_number from building where email\_address is null order by owner\_name;

13.select\*from building where owner\_name like'M%' order by owner\_name;

14. select\*from building where building\_type\_id=2 order by owner\_name;

15. select\*from electricity\_reading where total\_units between 500 and 1000 order by total\_units;

16.select meter\_id,total\_units from electricity\_reading where h13<h14 order by total\_units desc;