create database sqlassign;

use sqlassign;

create table electricity\_connection\_type(id int(11) primary key,connection\_name varchar(20) not null);

desc electricity\_connection\_type;

create table slab(id int(11) primary key,connection\_type\_id int(11) not null, constraint fk FOREIGN KEY(connection\_type\_id) REFERENCES electricity\_connection\_type(id), from\_unit int(11) not null,to\_unit int(11) not null,rate double not null);

desc slab;

create table building\_type(id int(11) primary key,name varchar(100) not null,connection\_type\_id int(11) not null,constraint fk1 FOREIGN KEY(connection\_type\_id) REFERENCES electricity\_connection\_type(id));

desc building\_type;

create table building(id int(11) primary key,owner\_name varchar(100) not null,addresss varchar(100) not null,building\_type\_id int(11) not null,constraint fk2 FOREIGN KEY(building\_type\_id) REFERENCES building\_type(connection\_type\_id),contact\_number varchar(100) not null,email\_address varchar(100));

desc building;

alter table building RENAME column owner\_name TO building\_owner\_name;

desc building;

alter table building modify column addresss varchar(255);

desc building;

alter table electricity\_connection\_type add constraint ck check(connection\_name in('commercial','home'));

desc electricity\_connection\_type;

rename table building to building\_details;

desc building\_details;

drop table building\_details;

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

describe meter;

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),payable\_amount double not null,is\_payed tinyint(1) not null,payment\_date date,fine\_amount double);

desc bill;

create table electricity\_reading(id int(11) primary key,meter\_id int(11) not null,day date,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);

desc electricity\_reading;

alter table building RENAME column owner\_name TO building\_owner\_name;

desc building;

alter table building modify column addresss varchar(255);

desc building;

drop table building\_details;

insert into electricity\_connection\_type(id,connection\_name) values(10,'home');

insert into electricity\_connection\_type(id,connection\_name) values(20,'commercial');