**Create Tables:**

Create table building(b\_number varchar2(20) primary key,b\_floors number not null ,b\_nickname varchar(20) not null,b\_value number not null,b\_construction\_year number not null);

Create table renovated\_building(b\_number varchar2(20) not null primary key,b\_year\_of\_renovation number not null,Foreign key(b\_number) references building(b\_number));

Create table New\_building(b\_number varchar2(20) not null primary key,b\_construction\_year number,Foreign key(b\_number) references building(b\_number));

create table Apartment(apt\_num number not null check(apt\_num between 1 and 999),b\_number varchar2(20) not null ,apt\_direction varchar(20) constraint chk\_direction CHECK(apt\_direction in ('N','E','W','S')),apt\_typeofwood varchar(20),apt\_wallstyle varchar(20),apt\_bathroomcolor varchar(20),apt\_carpetcolor varchar(20),apt\_kitchencolor varchar(20),apt\_rentalprice varchar(20), foreign key(b\_number) references building(b\_number),primary key(apt\_num,b\_number));

create table apartment\_features(apt\_num number not null ,b\_number varchar2(20) not null ,feature varchar(20) not null, foreign key(apt\_num,b\_number) references apartment(apt\_num,b\_number),primary key(apt\_num,b\_number,feature));

create table Floorplan(f\_area number not null,f\_baseprice number not null,f\_letter varchar2(20) not null,f\_noofbedrooms number not null,f\_noofbathrooms number not null,primary key(f\_letter,f\_noofbedrooms));

create table ApartmentFloor(apt\_num number,b\_number varchar2(20),f\_letter varchar2(20),f\_noofbedrooms number,primary key(apt\_num,b\_number),foreign key(apt\_num,b\_number) references apartment(apt\_num,b\_number),foreign key(f\_letter,f\_noofbedrooms) references floorplan(f\_letter,f\_noofbedrooms));

create table inspection(insp\_ID varchar2(20) not null primary key,insp\_date date not null,insp\_result varchar2(20) not null,insp\_comment varchar2(20),insp\_name varchar2(20));

create table inspectedBy(insp\_ID varchar2(20) not null primary key,b\_number varchar2(20),foreign key(insp\_ID) references inspection(insp\_ID),foreign key(b\_number) references building(b\_number));

create table tenant(t\_ID varchar2(20) not null primary key,t\_firtname varchar2(20) not null,t\_lastname varchar2(20),t\_middleinitial varchar2(20),t\_creditscore number not null,t\_income float);

create table tenant\_references(t\_ID varchar2(20) not null,reference varchar2(20),foreign key(t\_ID) references tenant(t\_ID),primary key(t\_ID,reference));

create table lease(t\_ID varchar2(20),b\_number varchar2(20),apt\_num number,primary key(apt\_num,b\_number),foreign key(t\_id) references tenant(t\_id),foreign key(apt\_num,b\_number) references apartment(apt\_num,b\_number));

create table request(req\_num varchar2(20) not null primary key,req\_status varchar2(20) not null,req\_loggeddate date not null,req\_completeddate date,req\_desc varchar2(40));

create table request\_modification(updatedreq\_num varchar2(20) primary key,originalreq\_num varchar2(20),foreign key(updatedreq\_num) references request(req\_num), foreign key(originalreq\_num) references request(req\_num));

create table request\_evaluate(t\_ID varchar2(20),req\_num varchar2(20),req\_rating number,req\_comment varchar2(40),primary key(t\_ID,req\_num),foreign key(t\_ID) references tenant(t\_ID),foreign key(req\_num) references request(req\_num),constraint ck\_rating check(req\_rating between 1 and 5));

create table Technician(tech\_empID number not null primary key,tech\_firstname varchar2(20) not null,tech\_lastname varchar2(40) not null,tech\_middlename varchar2(40),tech\_hourlyrate float not null, tech\_phone varchar2(20));

create table Request\_handle(tech\_empID number,req\_num varchar2(20),solveddate date,timespent float,descofwork varchar2(20),foreign key(tech\_empid) references technician(tech\_empid),foreign key(req\_num) references request(req\_num),primary key(tech\_empID,req\_num));

create table request\_poc(req\_num varchar2(20) primary key,tech\_empid number,foreign key(tech\_empid) references technician(tech\_empid),foreign key(req\_num) references request(req\_num));

create table specialities(tech\_empid number,specality varchar2(20),foreign key(tech\_empid) references technician(tech\_empid),primary key(tech\_empid,specality);