CREATE TABLE ROLES(

role\_id serial PRIMARY KEY NOT NULL,

role\_name varchar(20) NOT NULL

);

CREATE TABLE USERS (

user\_id serial PRIMARY KEY NOT NULL,

first\_name varchar(20) NOT NULL,

last\_name varchar(20) NOT NULL,

email varchar(40) NOT NULL UNIQUE,

username varchar(25) NOT NULL UNIQUE,

password varchar(255) NOT NULL,

is\_active boolean NOT NULL,

role serial references roles (role\_id),

version serial

);

CREATE TABLE LOCATIONS (

location\_id serial PRIMARY KEY NOT NULL,

city\_name varchar(20) NOT NULL,

street\_name varchar(20) NOT NULL,

zip\_code int NOT NULL,

description varchar(50) NOT NULL,

version serial

);

CREATE TABLE PROPERTY\_INFO (

property\_info\_id serial PRIMARY KEY NOT NULL,

has\_garage boolean NOT NULL,

has\_elevator boolean NOT NULL,

has\_pool boolean NOT NULL,

floor\_number SMALLINT NOT NULL,

nr\_bathrooms SMALLINT NOT NULL,

nr\_bedrooms SMALLINT NOT NULL,

property\_area integer,

version serial

);

CREATE TABLE PROPERTY\_TYPE (

property\_type\_id serial PRIMARY KEY NOT NULL,

property\_type\_name Varchar(30) NOT NULL,

property\_type\_desc Varchar(100)

);

CREATE TABLE PROPERTIES (

properties\_id serial PRIMARY KEY NOT NULL,

owner integer references USERS (user\_id),

description Varchar(50),

renting\_price integer,

selling\_price integer,

category Varchar(25),

property\_type serial references PROPERTY\_TYPE (property\_type\_id) NOT NULL,

property\_location serial references LOCATIONS (location\_id) NOT NULL,

property\_info serial references PROPERTY\_INFO (property\_info\_id) NOT NULL,

version serial

);

CREATE TABLE TRADE (

trade\_id serial PRIMARY KEY NOT NULL,

client serial references USERS (user\_id) NOT NULL,

property serial references PROPERTIES (properties\_id) NOT NULL,

trade\_date timestamp without time zone NOT NULL,

end\_trade\_date timestamp without time zone,

trade\_type Varchar(20) NOT NULL,

payment\_type Varchar(20) NOT NULL,

version serial

);

CREATE TABLE ISSUES (

issue\_id serial PRIMARY KEY NOT NULL,

category Varchar(20),

resolution\_status Varchar(30) NOT NULL,

description Varchar(50) NOT NULL,

created\_date timestamp without time zone NOT NULL,

client serial references USERS (user\_id) NOT NULL,

property serial references PROPERTIES (properties\_id) NOT NULL,

version serial

);