CREATE SCHEMA HOUSING;

USE HOUSING;

CREATE TABLE USER (

ID\_number CHAR(9) NOT NULL,

Username VARCHAR(50),

Password VARCHAR(50),

Name VARCHAR(50),

Gender CHAR(1) NOT NULL CHECK (Gender IN('F', 'M')),

Student\_status BOOLEAN,

Marital\_status BOOLEAN,

Address VARCHAR(100),

Phone\_number VARCHAR(50),

College VARCHAR(50),

Department VARCHAR(50),

Major VARCHAR(50),

Family\_head\_ID CHAR(9),

PRIMARY KEY (ID\_number)

);

ALTER TABLE USER ADD FOREIGN KEY(Family\_head\_ID) references USER(ID\_number) on delete cascade;

CREATE TABLE ADMINISTRATOR (

Staff\_ID CHAR(9) NOT NULL,

SSN CHAR(9),

Admin\_Name VARCHAR(50),

Gender CHAR(1) CHECK (Gender IN('F', 'M')),

Phone\_number VARCHAR(50),

Job\_title VARCHAR(50),

ResidentAdmin\_flag BOOLEAN,

MaintenanceAdmin\_flag BOOLEAN,

AdmissionsAdmin\_flag BOOLEAN,

PRIMARY KEY (Staff\_ID)

);

CREATE TABLE HOUSING\_UNIT (

Building\_number INT NOT NULL,

Apt\_number INT NOT NULL,

Bedroom\_number INT,

Max\_people INT,

Married\_couples\_allowed BOOLEAN,

Bed\_number INT,

Housing\_type VARCHAR(50),

Occupation\_status BOOLEAN,

Price\_quarter INT,

PRIMARY KEY (Building\_number,Apt\_number)

);

CREATE TABLE RESIDENT (

ID\_number CHAR(9) NOT NULL,

Admin\_staff\_ID CHAR(9) NOT NULL,

Move\_in\_date DATE,

Check\_out\_date DATE,

Building\_number INT NOT NULL,

Apt\_number INT NOT NULL,

Rent\_till\_date INT,

FOREIGN KEY (ID\_number) REFERENCES USER (ID\_number) on delete cascade,

PRIMARY KEY (ID\_number),

FOREIGN KEY (Building\_number,Apt\_number) REFERENCES HOUSING\_UNIT(Building\_number,Apt\_number) on delete cascade

);

CREATE TABLE WAITLISTED\_APPLICANT (

ID\_number CHAR(9) NOT NULL,

Staff\_ID CHAR(9),

PRIMARY KEY (ID\_number),

FOREIGN KEY (ID\_number) REFERENCES USER (ID\_number) on delete cascade,

FOREIGN KEY (Staff\_ID) REFERENCES ADMINISTRATOR (Staff\_ID) on delete cascade

);

CREATE TABLE HOUSING\_PREFERENCE (

ID\_number CHAR(9) NOT NULL,

Building\_preference TINYINT,

Housing\_type\_preference VARCHAR(50),

Bedroom\_preference TINYINT,

Order\_of\_preference TINYINT,

Roommate\_preference VARCHAR(150),

FOREIGN KEY (ID\_number) REFERENCES WAITLISTED\_APPLICANT(ID\_number) on delete cascade

);

CREATE TABLE MAINTENANCE\_REQUEST (

Request\_number INT NOT NULL,

Resident\_ID CHAR(9) NOT NULL,

Admin\_staff\_ID CHAR(9) NOT NULL,

Issue\_desc VARCHAR(150),

Submission\_date VARCHAR(15),

Date\_completed VARCHAR(15),

Status\_request VARCHAR(10) NOT NULL CHECK(Status IN("Pending", "Completed")),

Comments TEXT,

PRIMARY KEY (Request\_number),

FOREIGN KEY (Resident\_ID) REFERENCES RESIDENT(ID\_number) on delete cascade,

FOREIGN KEY (Admin\_staff\_ID) REFERENCES ADMINISTRATOR(Staff\_ID) on delete cascade

);