CREATE SCHEMA HOUSING;

USE HOUSING;

CREATE TABLE USER (

ID\_number INT NOT NULL,

Username VARCHAR(50),

Password VARCHAR(50),

Name VARCHAR(50),

Gender VARCHAR(8),

Student\_status BOOLEAN,

Marital\_status BOOLEAN,

Address VARCHAR(50),

Phone\_number INT,

College VARCHAR(50),

Department VARCHAR(50),

Major VARCHAR(50),

Family\_headSSN INT,

PRIMARY KEY (ID\_number)

);

CREATE TABLE ADMINISTRATOR (

Staff\_ID INT NOT NULL,

SSN INT,

Name VARCHAR(50),

Gender VARCHAR(8),

Phone\_number INT,

Dept\_name 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,

PRIMARY KEY (Building\_number,Apt\_number)

);

CREATE TABLE RESIDENT (

ID\_number INT NOT NULL,

Admin\_staff\_ID INT NOT NULL,

Move\_in\_date DATE,

Check\_out\_date DATE,

Building\_number INT NOT NULL,

Apt\_number INT NOT NULL,

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 RENT\_UNTIL\_DATE (

resident\_ID INT NOT NULL,

Quarterly\_rent INT NOT NULL,

PRIMARY KEY (Quarterly\_rent),

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

);

CREATE TABLE APPLICANT (

ID\_number INT NOT NULL,

Acceptance\_status BOOLEAN,

PRIMARY KEY (ID\_number),

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

);

CREATE TABLE APPLICATION (

Application\_number INT NOT NULL,

Admin\_staff\_ID INT NOT NULL,

ID\_number INT NOT NULL,

Fee\_paid INT,

Admission\_status BOOLEAN,

PRIMARY KEY (Application\_number),

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

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

);

CREATE TABLE VILLAGE\_PREFERENCE (

Application\_number INT NOT NULL,

Preference VARCHAR(150) NOT NULL,

PRIMARY KEY (Preference),

FOREIGN KEY (Application\_number) REFERENCES APPLICATION(Application\_number) on delete cascade

);

CREATE TABLE HOUSING\_PREFERENCE (

Application\_number INT NOT NULL,

Preference VARCHAR(150) NOT NULL,

PRIMARY KEY (Preference),

FOREIGN KEY (Application\_number) REFERENCES APPLICATION(Application\_number) on delete cascade

);

CREATE TABLE MAINTENANCE\_REQUEST (

Request\_number INT NOT NULL,

Resident\_ID INT NOT NULL,

Admin\_staff\_ID INT NOT NULL,

Issue\_desc VARCHAR(150),

Submission\_date DATE,

Date\_completed DATE,

Status VARCHAR(150),

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

);