CREATE TABLE SYSTEMINFORMATION (

system\_id INTEGER,

user\_codes VARCHAR(20),

PRIMARY KEY(system\_id)

);

CREATE TABLE USERS(

username VARCHAR(20),

password VARCHAR(20),

user\_type CHAR(1),

email VARCHAR(30),

first\_name VARCHAR(50),

last\_name VARCHAR(50),

PRIMARY KEY(username)

);

CREATE TABLE ADDRESS(

id INTEGER,

house\_number INTEGER,

street VARCHAR(30),

CITY VARCHAR(20),

STATE VARCHAR(20),

ZIP\_CODE INTEGER,

PRIMARY KEY(id)

);

CREATE TABLE GroceryStore(

store\_id INTEGER,

address\_id INTEGER,

store\_name VARCHAR(20),

opening\_time TIME,

closing\_time TIME,

phone CHAR(12),

PRIMARY KEY(store\_id),

FOREIGN KEY(address\_id) REFERENCES ADDRESS(id) ON DELETE CASCADE

);

CREATE TABLE ITEM(

item\_id INTEGER,

item\_name VARCHAR(20),

food\_group VARCHAR(10),

exp\_date DATE,

quantity INTEGER,

list\_price FLOAT,

wholesale\_price FLOAT,

description VARCHAR(50),

PRIMARY KEY(item\_id)

);

CREATE TABLE BUYER(

username VARCHAR(20),

address INTEGER,

default\_store\_id INTEGER,

default\_payment FLOAT,

PRIMARY KEY(username),

FOREIGN KEY(username) REFERENCES USERS(username) ON DELETE CASCADE,

FOREIGN KEY(address) REFERENCES ADDRESS(id) ON DELETE CASCADE,

FOREIGN KEY(default\_store\_id) REFERENCES GroceryStore(store\_id) ON DELETE CASCADE

);

CREATE TABLE MANAGES(

username VARCHAR(20),

store\_address INTEGER,

PRIMARY KEY(username, store\_address),

FOREIGN KEY(username) REFERENCES USERS(username) ON DELETE CASCADE,

FOREIGN KEY(store\_address) REFERENCES ADDRESS(id) ON DELETE CASCADE

);

CREATE TABLE PAYMENTS(

username VARCHAR(20),

payment\_name VARCHAR(20),

account\_number INTEGER,

routing\_number INTEGER,

PRIMARY KEY(username, payment\_name),

FOREIGN KEY(username) REFERENCES BUYER(username) ON DELETE CASCADE

);

CREATE TABLE ORDERS (

order\_id INTEGER,

delivery\_instructions VARCHAR(50),

delivery\_time TIME,

order\_placed\_date DATE,

order\_placed\_time TIME,

PRIMARY KEY(order\_id)

);

CREATE TABLE ORDERBY(

order\_id INTEGER,

buyer\_username VARCHAR(20),

PRIMARY KEY(order\_id),

FOREIGN KEY(order\_id) REFERENCES ORDERS(order\_id) ON DELETE CASCADE,

FOREIGN KEY(buyer\_username) REFERENCES USERS(username) ON DELETE CASCADE

);

CREATE TABLE SELECTITEM(

order\_id INTEGER,

quantity INTEGER,

item\_id INTEGER,

PRIMARY KEY(order\_id, item\_id),

FOREIGN KEY(order\_id) REFERENCES ORDERS(order\_id) ON DELETE CASCADE,

FOREIGN KEY(item\_id) REFERENCES ITEM(item\_id) ON DELETE CASCADE

);

CREATE TABLE ORDERFROM(

order\_id INTEGER,

store\_id INTEGER,

PRIMARY KEY(order\_id),

FOREIGN KEY(order\_id) REFERENCES ORDERS(order\_id) ON DELETE CASCADE,

FOREIGN KEY(store\_id) REFERENCES GROCERYSTORE(store\_id) ON DELETE CASCADE

);

CREATE TABLE SOLDAT(

item\_id INTEGER,

store\_id INTEGER,

PRIMARY KEY(item\_id, store\_id),

FOREIGN KEY(item\_id) REFERENCES ITEM(item\_id) ON DELETE CASCADE,

FOREIGN KEY(store\_id) REFERENCES GROCERYSTORE(store\_id) ON DELETE CASCADE

);

CREATE TABLE DELIVEREDBY(

order\_id INTEGER,

deliverer\_username VARCHAR(20),

delivery\_time TIME,

delivery\_date DATE,

is\_delivered BIT,

PRIMARY KEY(order\_id),

FOREIGN KEY(order\_id) REFERENCES ORDERS(order\_id) ON DELETE CASCADE,

FOREIGN KEY(deliverer\_username) REFERENCES USERS(username) ON DELETE CASCADE

);