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```
DROP DATABASE IF EXISTS cs122a_hw2;
CREATE DATABASE cs122a_hw2;
USE cs122a_hw2;

-- SQL DDLs for Entities and their supporting tables
--
-- Table structure for table Vehicles
--
CREATE TABLE Vehicles (
   state CHAR(2),
   license_plate VARCHAR(8),
   year INTEGER,
   model VARCHAR(20),
   make VARCHAR(20) NOT NULL,
   color VARCHAR(12) NOT NULL,
   PRIMARY KEY (state, license_plate)
);

--
-- Table structure for table Users
--
CREATE TABLE Users (
        user_id VARCHAR(11),
        email VARCHAR(50) NOT NULL,
   name VARCHAR(40) NOT NULL,
   PRIMARY KEY (user_id)
);

--
-- Table structure for table Users_Phone
--
CREATE TABLE Users_Phone (
        user_id VARCHAR(11),
   phone_type ENUM('home', 'office', 'mobile') NOT NULL,
   phone_number VARCHAR(11),
   FOREIGN KEY (user_id) REFERENCES Users (user_id),
   PRIMARY KEY (user_id, phone_number)
);

--
```

```
-- Table structure for table Users_Shopper
--
CREATE TABLE Users_Shopper (
        user_id VARCHAR(11),
    capacity INTEGER,
    FOREIGN KEY (user_id) REFERENCES Users (user_id)
    ON DELETE CASCADE,
    PRIMARY KEY (user_id)
);

--
-- Table structure for table Stores
--
CREATE TABLE Stores (
        store_id VARCHAR(11),
    name VARCHAR(40) NOT NULL,
    address VARCHAR(50) NOT NULL,
    phone VARCHAR(11) NOT NULL,
    categories ENUM('baby-care', 'beverages', 'deli', 'frozen foods', 'meal-kis') NOT NULL,
    PRIMARY KEY (store_id)
);

--
-- Table structure for table Orders2
-- such that relationships "Associated", "For",
-- "Place" and "Fulfill" are folded into the table
--
CREATE TABLE Orders2 (
        order_id VARCHAR(11),
    total_price DECIMAL(12,2) NOT NULL,
    state CHAR(2),
    license_plate VARCHAR(8),
    store_id VARCHAR(11),
    shopper_id VARCHAR(11),
    timestamp DATETIME NOT NULL,
    customer_id VARCHAR(11),
    time_placed DATETIME NOT NULL,
    pickup_time DATETIME,
    FOREIGN KEY (state, license_plate) REFERENCES Vehicles (state, license_plate)
        ON DELETE CASCADE,
    FOREIGN KEY (store_id) REFERENCES Stores (store_id)
        ON DELETE CASCADE,
    FOREIGN KEY (shopper_id) REFERENCES Users_Shopper (user_id)
```

```
        ON DELETE CASCADE,
    FOREIGN KEY (customer_id) REFERENCES Users_Shopper (user_id)
        ON DELETE CASCADE,
    PRIMARY KEY (order_id, state, license_plate, store_id, shopper_id, customer_id)
);

--
-- Table structure for table Products
--
CREATE TABLE Products (
        product_id VARCHAR(11),
    name VARCHAR(40) NOT NULL,
    categories ENUM ('baby-care', 'beverages', 'deli', 'frozen foods', 'meal-kits') NOT NULL,
    description VARCHAR(400) NOT NULL,
    list_price DECIMAL(7,2) NOT NULL,
    PRIMARY KEY (product_id)
);

--
-- Table structure for table OrderItems2
-- such that relationships "Contains"
-- and "Associated" are folded into the table
--
CREATE TABLE OrderItems2 (
        item_id VARCHAR(11),
    quantity INTEGER NOT NULL,
    selling_price DECIMAL(12,2) NOT NULL,
    order_id VARCHAR(11),
    product_id VARCHAR(11),
    FOREIGN KEY (order_id) REFERENCES Orders2 (order_id)
    ON DELETE CASCADE,
    FOREIGN KEY (product_id) REFERENCES Products (product_id),
    PRIMARY KEY (order_id, item_id, product_id)
);
```

```
-- SQL DDLs for Relationships
--
-- Table structure for table Friends
--
CREATE TABLE Friends (
        user_id1 VARCHAR(11),
   user_id2 VARCHAR(11),
   FOREIGN KEY (user_id1) REFERENCES Users (user_id),
   FOREIGN KEY (user_id2) REFERENCES Users (user_id),
   PRIMARY KEY (user_id1, user_id2)
);

--
-- Table structure for table StockedBy
--
CREATE TABLE StockedBy (
        product_id VARCHAR(11),
   store_id VARCHAR(11),
   qty INTEGER,
   FOREIGN KEY (product_id) REFERENCES Products (product_id),
   FOREIGN KEY (store_id) REFERENCES Stores (store_id),
   PRIMARY KEY (product_id, store_id)
);

--
-- Table structure for table WorksFor
--
CREATE TABLE WorksFor (
        user_id VARCHAR(11),
   store_id VARCHAR(11),
   FOREIGN KEY (user_id) REFERENCES Users_Shopper (user_id),
   FOREIGN KEY (store_id) REFERENCES Stores (store_id),
   PRIMARY KEY (user_id, store_id)
);

--
-- Table structure for table Owns
--
CREATE TABLE Owns (
        user_id VARCHAR(11),
   state CHAR(2),
   license_plate VARCHAR(8),
   FOREIGN KEY (user_id) REFERENCES Users (user_id),
```

```
    FOREIGN KEY (state, license_plate) REFERENCES Vehicles (state, license_plate),
    PRIMARY KEY (user_id, state, license_plate)
);
```