Create Database ecommerce;

USE ecommerce;

-- Create Sellers Table

CREATE TABLE Sellers (

SellerID INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

email VARCHAR(255) UNIQUE NOT NULL,

password VARCHAR(255) NOT NULL,

phone VARCHAR(15),

address TEXT

);

-- Create Products Table

CREATE TABLE Products (

ID INT AUTO\_INCREMENT PRIMARY KEY,

Seller\_id INT,

name VARCHAR(255) NOT NULL,

description TEXT,

price DECIMAL(10, 2) NOT NULL,

quantity INT NOT NULL,

manufacture\_date DATE,

category ENUM('Pen and Pencil', 'Books', 'Papers', 'Art Accessories'),

author VARCHAR(255), -- For Books

type VARCHAR(255), -- For Papers

expiration\_date DATE, -- For Art Accessories

FOREIGN KEY (Seller\_id) REFERENCES Sellers(SellerID) -- Foreign Key Constraint

);

-- Create Customers Table

CREATE TABLE Customers (

ID INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

email VARCHAR(255) UNIQUE NOT NULL,

password VARCHAR(255) NOT NULL,

phone VARCHAR(15),

address TEXT,

type ENUM('Guest', 'Registered') -- Customer type

);

-- Create Cart Table

CREATE TABLE Cart (

cart\_id INT AUTO\_INCREMENT PRIMARY KEY,

customer\_id INT,

product\_id INT,

number\_of\_product INT NOT NULL,

FOREIGN KEY (customer\_id) REFERENCES Customers(ID) ON DELETE CASCADE,

FOREIGN KEY (product\_id) REFERENCES Products(ID) ON DELETE CASCADE

);

CREATE TABLE Orders (

order\_no INT AUTO\_INCREMENT PRIMARY KEY,

customer\_id INT,

product\_id INT,

quantity INT NOT NULL,

order\_date DATE NOT NULL,

shipment\_date DATE,

status ENUM('Pending', 'Shipped', 'Canceled') DEFAULT 'Pending', -- Adding status field

FOREIGN KEY (customer\_id) REFERENCES Customers(ID) ON DELETE CASCADE,

FOREIGN KEY (product\_id) REFERENCES Products(ID) ON DELETE CASCADE

);

-- Product-Seller Relationship

CREATE TABLE Product\_Seller (

product\_id INT,

seller\_id INT,

quantity INT NOT NULL,

PRIMARY KEY (product\_id, seller\_id),

FOREIGN KEY (product\_id) REFERENCES Products(ID) ON DELETE CASCADE,

FOREIGN KEY (seller\_id) REFERENCES Sellers(SellerID) ON DELETE CASCADE

);