Create Database EcommerceDB;

use EcommerceDB;

---Category Table

Create Table Categories (

CategoryID Int Primary key identity(1,1),

CategoryName varchar(100) not null

);

--Product Table

Create Table Products (

ProductID Int Primary key Identity(1,1),

ProductName Varchar(100) not null,

Price Decimal(10,2) not null,

stock int not null,

CategoryID Int,

Foreign key (categoryID) References Categories(CategoryID)

);

---Customer Table

Create Table Customers (

CustomerID Int Primary key Identity(1,1),

CustomerName Varchar(100) not null,

Email Varchar(100) unique,

Phone Varchar(100),

Address TEXT

);

---Order Detail

Create Table Orders (

OrderID Int Primary key Identity(1,1),

CustomerID Int,

OrderDate Date,

Status Varchar(50),

Foreign key (CustomerID) References Customers(CustomerID)

);

-- OrderDetails Table (Associative Entity for Orders & Products)

Create Table Orderdetails (

OrderdetailID Int Primary key identity(1,1),

OrderID Int,

ProductID Int,

Quantity Int not null,

Unitprice Decimal(10,2),

Foreign key (OrderID) References Orders(OrderID),

foreign key (ProductID) References Products(ProductID)

);

-- Payment Table

CREATE TABLE Payment (

PaymentID INT PRIMARY KEY identity(1,1),

OrderID INT,

PaymentDate DATE,

Amount DECIMAL(10, 2),

PaymentMethod VARCHAR(50),

FOREIGN KEY (OrderID) REFERENCES Orders(OrderID)

);

-- Shipping Table

CREATE TABLE Shipping (

ShippingID INT PRIMARY KEY identity(1,1),

OrderID INT,

ShippingAddress TEXT,

ShippingDate DATE,

DeliveryDate DATE,

Status VARCHAR(50),

FOREIGN KEY (OrderID) REFERENCES Orders(OrderID)

);