

E-commerce Application

-- create a table

```
CREATE TABLE Users (  
    UserID INTEGER PRIMARY KEY,  
    Name TEXT NOT NULL,  
    Password VARCHAR(150),  
    Phone VARCHAR(150),  
    Address VARCHAR(150)  
);
```

-- create a table

```
CREATE TABLE Products (  
    ProductID INTEGER PRIMARY KEY,  
    Name TEXT NOT NULL,  
    Description VARCHAR(150),  
    Price DECIMAL(10, 2),  
    StockQuantity INTEGER,  
    CategoryID INTEGER,  
    FOREIGN KEY (CategoryID) REFERENCES Categories(CategoryID)  
);
```

-- create a table

```
CREATE TABLE Categories (  
    CategoryID INTEGER PRIMARY KEY,  
    Name TEXT NOT NULL,  
    Description VARCHAR(255)  
);
```

-- create a table

```
CREATE TABLE Orders (  
    OrderID INTEGER PRIMARY KEY,  
    UserID INTEGER,  
    OrderDate DATE,  
    Status TEXT NOT NULL,  
    TotalAmount DECIMAL(10, 2),  
    FOREIGN KEY (UserID) REFERENCES Users(UserID)  
);
```

-- create a table

```
CREATE TABLE OrderItems (  
    OrderItemID INTEGER PRIMARY KEY,  
    OrderID INTEGER,  
    ProductID INTEGER,  
    Quantity INTEGER,  
    PricePerItem DECIMAL(10, 2),  
    FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),  
    FOREIGN KEY (ProductID) REFERENCES Products(ProductID)  
);
```

-- create a table

```
CREATE TABLE OrderDetails (  
    OrderDetailID INTEGER PRIMARY KEY,  
    OrderID INTEGER,  
    ProductID INTEGER,  
    Quantity INTEGER,  
    FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),  
    FOREIGN KEY (ProductID) REFERENCES Products(ProductID)  
);
```

-- create a table

```
CREATE TABLE Payments (  
    PaymentID INTEGER PRIMARY KEY,  
    OrderID INTEGER,  
    PaymentDate DATE,  
    PaymentMethod TEXT NOT NULL,  
    FOREIGN KEY (OrderID) REFERENCES Orders(OrderID)  
);
```

-- create a table

```
CREATE TABLE Reviews (  
    ReviewID INTEGER PRIMARY KEY,  
    ProductID INTEGER,  
    UserID INTEGER,  
    Rating INTEGER,  
    Comment TEXT,
```

```

FOREIGN KEY (ProductID) REFERENCES Products(ProductID),
FOREIGN KEY (UserID) REFERENCES Users(UserID)
);
-- insert some values

INSERT INTO Users (UserID, Name, Password, Phone, Address)
VALUES
(1, 'Alice Johnson', 'password123', '123-456-7890', '123 Main St, Springfield'),
(2, 'Bob Smith', 'mypassword', '987-654-3210', '456 Oak Rd, Rivertown'),
(3, 'Charlie Brown', 'charlie2024', '555-123-4567', '789 Pine Ave, Lake City'),
(4, 'Dana Lee', 'dana2024', '555-987-6543', '321 Birch Blvd, Hilltop'),
(5, 'Eve Green', 'evepassword', '555-246-8100', '654 Cedar Dr, Forest Hills');

INSERT INTO Products (ProductID, Name, Description, Price, StockQuantity, CategoryID)
VALUES
(1, 'Laptop', '15-inch screen laptop with 8GB RAM', 799.99, 50, 1),
(2, 'T-Shirt', 'Cotton T-shirt, size M, with graphic design', 19.99, 100, 2),
(3, 'Novel', 'Bestselling mystery novel', 9.99, 200, 3),
(4, 'Office Chair', 'Ergonomic office chair with adjustable height', 129.99, 30, 4),
(5, 'Lego Set', 'Lego building set for ages 8+', 49.99, 75, 5);

INSERT INTO Categories (CategoryID, Name, Description)
VALUES
(1, 'Electronics', 'Devices, gadgets, and tech products'),
(2, 'Clothing', 'Apparel and fashion items'),
(3, 'Books', 'Printed and digital books for all ages'),
(4, 'Furniture', 'Home and office furniture'),
(5, 'Toys', 'Toys and games for children');

INSERT INTO Orders (OrderID, UserID, OrderDate, Status, TotalAmount)
VALUES
(1, 1, '2024-12-01', 'Shipped', 819.98),
(2, 2, '2024-12-02', 'Delivered', 129.98),
(3, 3, '2024-12-03', 'Pending', 59.98),
(4, 4, '2024-12-04', 'Cancelled', 129.99),
(5, 5, '2024-12-05', 'Shipped', 49.99);

INSERT INTO OrderItems (OrderItemID, OrderID, ProductID, Quantity, PricePerItem)
VALUES

```

(1, 1, 1, 1, 799.99),

(2, 2, 2, 2, 19.99),

(3, 3, 3, 6, 9.99),

(4, 4, 4, 1, 129.99),

(5, 5, 5, 1, 49.99);

INSERT INTO OrderDetails (OrderDetailID, OrderID, ProductID, Quantity)

VALUES

(1, 1, 1, 1),

(2, 2, 2, 2),

(3, 3, 3, 6),

(4, 4, 4, 1),

(5, 5, 5, 1);

INSERT INTO Payments (PaymentID, OrderID, PaymentDate, PaymentMethod)

VALUES

(1, 1, '2024-12-01', 'Credit Card'),

(2, 2, '2024-12-02', 'PayPal'),

(3, 3, '2024-12-03', 'Bank Transfer'),

(4, 4, '2024-12-04', 'Debit Card'),

(5, 5, '2024-12-05', 'Cash on Delivery');

INSERT INTO Reviews (ReviewID, ProductID, UserID, Rating, Comment)

VALUES

(1, 1, 1, 5, 'Great laptop! Fast and powerful.'),

(2, 2, 2, 4, 'Good quality T-shirt, but a bit tight.'),

(3, 3, 3, 4, 'Interesting mystery novel, but predictable ending.'),

(4, 4, 4, 3, 'Comfortable chair but took a long time to assemble.'),

(5, 5, 5, 5, 'My kids love this Lego set. Hours of fun!');

-- Fetch all values from the tables

SELECT * FROM Users;

SELECT * FROM Products;

SELECT * FROM Categories;

SELECT * FROM Orders;

SELECT * FROM OrderItems;

SELECT * FROM OrderDetails;

SELECT * FROM Payments;

```
SELECT * FROM Reviews;
```