

Relational Database Schema for Clothing E-Commerce

Users Table

- **UserID** (Primary Key)
- FullName (VARCHAR)
- Email (VARCHAR, UNIQUE)
- Password (Encrypted)
- Role (ENUM: Customer, Admin)
- PhoneNumber (VARCHAR)
- DateCreated (DATETIME)
- LastLogin (DATETIME)
-

Products Table

- **ProductID** (Primary Key)
- Name (VARCHAR)
- Description (TEXT)
- Price (DECIMAL)
- CategoryID (Foreign Key references Categories.CategoryID)
- ImageURL (VARCHAR)
- SKU (VARCHAR, UNIQUE)
- DateAdded (DATETIME)
- ActiveStatus (ENUM: Active, Discontinued)

Orders Table

- **OrderID** (Primary Key)
- UserID (Foreign Key references Users.UserID)
- OrderDate (DATETIME)
- TotalAmount (DECIMAL)
- Status (ENUM: Pending, Shipped, Delivered, Cancelled)
- PaymentID (Foreign Key references Payments.PaymentID)
- TrackingNumber (VARCHAR, UNIQUE)

Order Items Table

- **OrderItemID** (Primary Key)
- OrderID (Foreign Key references Orders.OrderID)
- ProductID (Foreign Key references Products.ProductID)
- Quantity (INTEGER)
- Size (ENUM: S, M, L, XL)
- UnitPrice (DECIMAL)
- Subtotal (DECIMAL)

Categories Table

- **CategoryID** (Primary Key)
- CategoryName (VARCHAR)
- Description (TEXT)
- ParentCategoryID (Foreign Key references Categories.CategoryID, nullable)

Inventory Table

- **InventoryID** (Primary Key)
- ProductID (Foreign Key references Products.ProductID)
- Size (ENUM: S, M, L, XL)
- QuantityAvailable (INTEGER)
- ReorderThreshold (INTEGER)

Shipping Details Table

- **ShippingID** (Primary Key)
- OrderID (Foreign Key references Orders.OrderID)
- RecipientName (VARCHAR)
- Address (TEXT)
- City (VARCHAR)
- State/Province (VARCHAR)
- `Country (VARCHAR)
- PhoneNumber (VARCHAR)
- ShippingMethod (VARCHAR)

Payments Table

- **PaymentID** (Primary Key)
- OrderID (Foreign Key references Orders.OrderID)
- PaymentMethod (ENUM: Credit Card, PayPal, Bank Transfer)
- PaymentDate (DATETIME)
- PaymentStatus (ENUM: Successful, Failed, Pending)
- TransactionID (VARCHAR, UNIQUE)

