**Database Schema**

### **Sheet 1: Users**

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each user |
| first\_name | VARCHAR(50) | NULL | YES | User's first name |
| last\_name | VARCHAR(50) | NULL | YES | User's last name |
| email | VARCHAR(100) | NULL | NO | User's email address (unique) |
| password\_hash | VARCHAR(255) | NULL | NO | Hashed password for security |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of user creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

### **Sheet 2: Products**

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each product |
| name | VARCHAR(100) | NULL | NO | Product name |
| description | TEXT | NULL | YES | Detailed description |
| price | DECIMAL(10, 2) | 0.00 | NO | Product price |
| image\_url | VARCHAR(255) | NULL | YES | URL of the product image |
| category | VARCHAR(50) | NULL | YES | Product category (e.g., sneakers, sandals, boots) |
| brand | VARCHAR(50) | NULL | YES | Product brand |
| is\_active | BOOLEAN | TRUE | NO | Indicates whether the product is available |
| is\_featured | BOOLEAN | FALSE | NO | Indicates whether the product is featured |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of product creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

### **Sheet 3: Orders**

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each order |
| user\_id | INTEGER | NULL | NO | Foreign key referencing the user who placed the order |
| billing\_address\_id | INTEGER | NULL | YES | Foreign key referencing the billing address |
| shipping\_address\_id | INTEGER | NULL | YES | Foreign key referencing the shipping address |
| order\_status | VARCHAR(20) | 'pending' | NO | Order status (e.g., pending, processing, shipped, delivered) |
| total\_amount | DECIMAL(10, 2) | 0.00 | NO | Total amount of the order |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of order creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

### **Sheet 4: OrderItems**

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each order item |
| order\_id | INTEGER | NULL | NO | Foreign key referencing the order |
| product\_id | INTEGER | NULL | NO | Foreign key referencing the product |
| product\_variation\_id | INTEGER | NULL | YES | Foreign key referencing the product variation (if applicable) |
| quantity | INTEGER | 1 | NO | Quantity of the product ordered |
| price | DECIMAL(10, 2) | 0.00 | NO | Price of the product at the time of purchase |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of order item creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

**Sheet 5: Reviews**

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each review |
| product\_id | INTEGER | NULL | NO | Foreign key referencing the product |
| user\_id | INTEGER | NULL | NO | Foreign key referencing the user |
| rating | INTEGER | NULL | YES | Rating given by the user (e.g., 1-5 stars) |
| comment | TEXT | NULL | YES | Review text |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of review creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

## Sheet 6: Cart

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each cart |
| user\_id | INTEGER | NULL | YES | Foreign key referencing the user |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of cart creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

## Sheet 7: CartItem

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each cart item |
| cart\_id | INTEGER | NULL | NO | Foreign key referencing the cart |
| product\_id | INTEGER | NULL | NO | Foreign key referencing the product |
| product\_variation\_id | INTEGER | NULL | YES | Foreign key referencing the product variation (if applicable) |
| quantity | INTEGER | 1 | NO | Quantity of the product in the cart |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of cart item creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

## Sheet 8: Coupons

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each promotion/discount |
| code | VARCHAR(50) | NULL | NO | Promotion/discount code |
| description | TEXT | NULL | YES | Description of the promotion/discount |
| discount\_type | VARCHAR(20) | NULL | NO | Type of discount (e.g., percentage, fixed amount) |
| discount\_value | DECIMAL(10, 2) | 0.00 | NO | Value of the discount |
| start\_date | DATE | NULL | YES | Start date of the promotion/discount |
| end\_date | DATE | NULL | YES | End date of the promotion/discount |
| is\_active | BOOLEAN | TRUE | NO | Indicates whether the promotion/discount is active |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of coupon creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

## Sheet 9: Sizes

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each size |
| size | VARCHAR(10) | NULL | NO | Size value (e.g., 6, 7, 8, 9, 10) |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of size creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

## Sheet 10: Lots

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each lot |
| product\_id | INTEGER | NULL | NO | Foreign key referencing the product |
| purchase\_date | DATE | NULL | YES | Date the lot was purchased |
| quantity | INTEGER | 0 | NO | Total quantity in the lot |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of lot creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

## Sheet 11: ProductVariations

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each product variation |
| product\_id | INTEGER | NULL | NO | Foreign key referencing the product |
| variation\_name | VARCHAR(50) | NULL | NO | Name of the variation (e.g., color, material) |
| variation\_value | VARCHAR(50) | NULL | NO | Value of the variation (e.g., blue, leather) |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of variation creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

## Sheet 12: Inventory

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each inventory item |
| product\_id | INTEGER | NULL | NO | Foreign key referencing the product |
| product\_variation\_id | INTEGER | NULL | YES | Foreign key referencing the product variation (if applicable) |
| lot\_id | INTEGER | NULL | YES | Foreign key referencing the lot |
| quantity | INTEGER | 0 | NO | Available quantity |
| location | VARCHAR(100) | NULL | YES | Location of the inventory item |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of inventory item creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

## Sheet 13: ShippingAddresses

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each address |
| user\_id | INTEGER | NULL | NO | Foreign key referencing the user |
| address\_line\_1 | VARCHAR(255) | NULL | NO | Address line 1 |
| address\_line\_2 | VARCHAR(255) | NULL | YES | Address line 2 |
| city | VARCHAR(100) | NULL | NO | City |
| state | VARCHAR(100) | NULL | YES | State/Province |
| country | VARCHAR(100) | NULL | NO | Country |
| postal\_code | VARCHAR(20) | NULL | NO | Postal code |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of address creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

## Sheet 14: PaymentMethods

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each payment method |
| name | VARCHAR(50) | NULL | NO | Name of the payment method (e.g., credit card, PayPal, UPI) |
| description | TEXT | NULL | YES | Description of the payment method |
| created\_at | TIMESTAMP | CURRENT\_TIMESTAMP | NO | Timestamp of payment method creation |
| updated\_at | TIMESTAMP | CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | NO | Timestamp of the last update |
| deleted\_at | TIMESTAMP | NULL | YES | Timestamp of the last delete |

## Sheet 15: Payments

| Column | Data Type | Default Value | Is Nullable | Description |
| --- | --- | --- | --- | --- |
| id | INTEGER | AUTO\_INCREMENT | NO | Unique identifier for each payment |
| order\_id | INTEGER | NULL | NO | Foreign key referencing the order |
| payment\_method\_id | INTEGER | NULL | NO | Foreign key referencing the payment method |
| transaction\_id | VARCHAR(100) | NULL | YES | Transaction ID from the payment gateway |
| amount | DECIMAL(10, 2) | 0.0 |