

**TABLE: CARTS**

| Field Name | Data Type | Description                             | Constraint                  | Default   |
|------------|-----------|---|-----------------------------|---|
| id         | INT(11)   | Unique identifier for the cart          | Primary Key, Auto Increment |   |
| user_id    | INT(11)   | References the user who owns the cart   | Foreign Key → users.id      |   |
| created_at | DATETIME  | Date and time when the cart was created | —                           | current_timestamp()                             |
| updated_at | DATETIME  | Last update timestamp                   | —                           | current_timestamp() ON UPDATE current_timestamp |

**TABLE: CART\_ITEMS**

| Field Name | Data Type | Description                         | Constraint                  | Default             |
|------------|-----------|-------------------------------------|-----------------------------|---------------------|
| id         | INT(11)   | Unique identifier for the cart item | Primary Key, Auto Increment |                     |
| cart_id    | INT(11)   | Reference to the cart               | Foreign Key → carts.id      | current_timestamp() |
| product_id | INT(11)   | Reference to the product            | Foreign Key → products.id   |                     |
| quantity   | INT(11)   | Quantity of product added           |                             |                     |
| added_at   | DATETIME  | Date and time the product was added |                             |                     |

**TABLE: CATEGORIES**

| Field Name | Data Type    | Description                | Constraint                  | Default |
|------------|--------------|----------------------------|-----------------------------|---------|
| id         | INT(11)      | Unique category identifier | Primary Key, Auto Increment | —       |
| name       | VARCHAR(100) | Category name              | Unique Key                  | —       |

**TABLE: LOCATIONS**

| Field Name | Data Type    | Description                | Constraint                  | Default |
|------------|--------------|----------------------------|-----------------------------|---------|
| id         | INT(11)      | Unique location identifier | Primary Key, Auto Increment | —       |
| name       | VARCHAR(100) | Name of the location       | Unique Key                  | —       |

## TABLE: ORDERS

| Field Name       | Data Type  | Description                                 | Constraint                  | Default             |
|------------------|--|---|-----------------------------|---------------------|
| id               | INT(11)  | Unique order identifier                     | Primary Key, Auto Increment |                     |
| user_id          | INT(11)  | Reference to the customer placing the order | Foreign Key → users.id      |                     |
| total_amount     | DECIMAL(12,2)  | Total price of all items                    |                             |                     |
| shipping_address | TEXT   | Delivery address                            |                             | NULL                |
| status           | ENUM('pending','processing','shipped','delivered','cancelled') | Current order status                        |                             | 'pending'           |
| placed_at        | DATETIME   | Order placement date and time               |                             | current_timestamp() |

## TABLE: ORDER\_ITEMS

| Field Name | Data Type     | Description                            | Constraint                  | Default |
|------------|---------------|--|-----------------------------|---------|
| id         | INT(11)       | Unique order item identifier           | Primary Key, Auto Increment | —       |
| order_id   | INT(11)       | Reference to the order                 | Foreign Key → orders.id     | —       |
| product_id | INT(11)       | Reference to the product               | Foreign Key → products.id   | —       |
| unit_price | DECIMAL(10,2) | Price per unit of the product          |                             | —       |
| quantity   | INT(11)       | Number of products ordered             |                             | —       |
| subtotal   | DECIMAL(12,2) | Computed total (unit_price × quantity) |                             | —       |

## TABLE: ORDER\_TRACKING

| Field Name | Data Type  | Description                          | Constraint                  | Default             |
|------------|--|--------------------------------------|-----------------------------|---------------------|
| id         | INT(11)  | Unique tracking entry identifier     | Primary Key, Auto Increment |                     |
| order_id   | INT(11)  | Reference to the related order       | Foreign Key → orders.id     |                     |
| status     | ENUM('pending','processing','shipped','delivered','cancelled') | Order tracking status                |                             |                     |
| note       | VARCHAR(255)   | Additional notes on the order status |                             | NULL                |
| created_at | DATETIME   | Timestamp for the tracking update    |                             | current_timestamp() |

## TABLE: PRODUCTS

| Field Name         | Data Type     | Description                          | Constraint                  | Default   |
|--------------------|---------------|--------------------------------------|-----------------------------|---|
| id                 | INT(11)       | Unique product identifier            | Primary Key, Auto Increment | —   |
| sku                | VARCHAR(50)   | Stock keeping unit identifier        | —                           | NULL  |
| name               | VARCHAR(255)  | Product name                         | —                           | —   |
| description        | TEXT          | Description of the product           | —                           | NULL  |
| category_id        | INT(11)       | Reference to product category        | Foreign Key → categories.id |   |
| origin_location_id | INT(11)       | Reference to product origin location | Foreign Key → locations.id  | NULL  |
| price              | DECIMAL(10,2) | Price of the product                 |                             |   |
| stock              | INT(11)       | Number of items in stock             |                             | 0   |
| image_filename     | VARCHAR(255)  | Image filename for display           |                             | NULL  |
| created_at         | DATETIME      | Record creation date                 |                             | current_timestamp()                               |
| updated_at         | DATETIME      | Last record update                   |                             | current_timestamp() ON UPDATE current_timestamp() |

## TABLE: USERS

| Field Name    | Data Type                         | Description                        | Constraint                  | Default             |
|---------------|-----------------------------------|------------------------------------|-----------------------------|---------------------|
| id            | INT(11)                           | Unique user identifier             | Primary Key, Auto Increment |                     |
| first_name    | VARCHAR(100)                      | User's first name                  |                             |                     |
| last_name     | VARCHAR(100)                      | User's last name                   |                             |                     |
| email         | VARCHAR(255)                      | User email address                 | Unique Key                  |                     |
| password_hash | VARCHAR(255)                      | Hashed password for authentication |                             |                     |
| role          | ENUM('customer','admin','seller') | User's role classification         |                             | 'customer'          |
| created_at    | DATETIME                          | Account creation date              |                             | current_timestamp() |