

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()