

Table Design

1. User Table

Sl.No	Field Name	Data Type	Key/Constraints	Description
1	userID	INT	PK, NOT NULL, AUTO_INCREMENT	Unique identifier for each user.
2	name	VARCHAR(100)	NOT NULL	Name of the user.
3	email	VARCHAR(100)	UNIQUE, NOT NULL	Email address for communication and login.
4	password	VARCHAR(100)	NOT NULL	Encrypted user password.
5	role	ENUM ('Admin', 'Customer', 'DeliveryBoy')	NOT NULL	Defines the type of user.
6	status	ENUM(Active, Inactive)	NOT NULL	User's account status.
7	Added time	DATETIME	NOT NULL	Timestamp when the user account was created.

2. Login Table

Sl.No	Field Name	Data Type	Key/Constraints	Description
1	LoginID	INT	PK, NOT NULL, AUTO_INCREMENT	Unique identifier for each login record.
2	UserID	INT	FK (UserID)	Links to the User table for login.
3	Password	VARCHAR(255)	NOT NULL	Hashed password for authentication.
4	status	ENUM (Active, Inactive)	NOT NULL	Indicates wheather the login is active or disabled.
5	AddedTime	DATETIME	NOT NULL	The timestamp when the login record was created.

3. Products Table

Sl.No	Field Name	Data Type	Key/Constraints	Description
1	ProductID	INT	PK, NOT NULL, AUTO_INCREMENT	Unique identifier for each product.
2	ProductName	VARCHAR(100)	NOT NULL	Name of the product (e.g., "Sambar Kit").
3	Stock_Quantity	INT	NOT NULL	Quantity available in stock.
4	UnitPrice	DECIMAL(10, 2)	NOT NULL	Price per unit of the product.
5	Description	TEXT	NULL	Description or additional details about the product.
6	AddedBy	INT	FK (UserID)	Admin ID who added the product.
7	UpdatedTime	DATETIME	NOT NULL	The timestamp when the product details were last updated.

4. Cart Table

Sl.No	Field Name	Data Type	Key/Constraints	Description
1	CartID	INT	PK, NOT NULL, AUTO_INCREMENT	Unique identifier for each cart.
2	UserID	INT	FK (UserID)	Links to the user who owns the cart.
3	ProductID	INT	FK (ProductID)	Links to the product added to the cart.
4	Quantity	INT	NOT NULL	Quantity of the product in the cart.
5	Price	DECIMAL(10, 2)	NOT NULL	Price of the product at the time it was added to the cart.
6	AddedDate	DATETIME	NOT NULL	Date and time when the product was added to the cart.

5. Orders Table

Sl.No	Field Name	Data Type	Key/Constraints	Description
1	OrderID	INT	PK, NOT NULL, AUTO_INCREMENT	Unique identifier for each order.
2	UserID	INT	FK (UserID)	Links to the user who placed the order.
3	ProductID	INT	FK (ProductID)	Links to the product ordered.
4	Quantity	INT	NOT NULL	Quantity of the product ordered.
5	Order_total_amount	DECIMAL(10, 2)	NOT NULL	Total price for the order (product price × quantity).
6	OrderStatus	ENUM ('Pending', 'Confirmed', 'Cancelled')	NOT NULL	Status of the order (focused on order processing).
7	OrderDate	DATETIME	NOT NULL	Date and time when the order was placed.

6. Payment Table

Sl.No	Field Name	Data Type	Key/Constraints	Description
1	PaymentID	INT	PK, NOT NULL, AUTO_INCREMENT	Unique identifier for each payment.
2	OrderID	INT	FK (OrderID)	Links to the associated order.
3	PaymentMethod	ENUM ('Card', 'UPI', 'NetBanking', 'COD')	NOT NULL	Method used for payment.
4	PaymentStatus	ENUM ('Pending', 'Completed', 'Failed')	NOT NULL	Current status of the payment.
5	PaymentDate	DATETIME	NOT NULL	Date and time of payment.
6	AmountPaid	DECIMAL(10, 2)	NOT NULL	Amount paid for the order.

7. Stock Transactions Table

Sl.No	Field Name	Data Type	Key/Constraints	Description
1	TransactionID	INT	PK, NOT NULL, AUTO_INCREMENT	Unique identifier for each transaction.
2	ProductID	INT	FK (ProductID)	Links to the product involved in the transaction.
3	TransactionType	ENUM ('IN', 'OUT')	NOT NULL	Type of stock transaction ("IN" for added, "OUT" for sold).
4	Transaction_quantity	INT	NOT NULL	Quantity involved in the transaction.
5	TransactionDate	DATETIME	NOT NULL	Date and time of the transaction.
6	AdminID	INT	FK (UserID)	Admin who performed the transaction.

8. Delivery Table

Sl.No	Field Name	Data Type	Key/Constraints	Description
1	DeliveryID	INT	PK, NOT NULL, AUTO_INCREMENT	Unique identifier for each delivery.
2	OrderID	INT	FK (OrderID)	Links to the associated order.
3	DeliveryBoyID	INT	FK (UserID)	Links to the delivery boy assigned to this delivery.
4	DeliveryDate	DATETIME	NULL	Scheduled or actual delivery date.
5	DeliveryStatus	ENUM ('Pending', 'Out for Delivery', 'Delivered', 'Failed')	NOT NULL	Status of the delivery.
6	DeliveryAddress	TEXT	NOT NULL	Address where the delivery will be made.
7	ShippedAddress	TEXT	NULL	Alternate address, if applicable.

9. Reviews/Feedback Table

Sl.No	Field Name	Data Type	Key/Constraints	Description
1	ReviewID	INT	PK, NOT NULL, AUTO_INCREMENT	Unique identifier for each review.
2	OrderID	INT	FK (OrderID)	Links to the associated order.
3	UserID	INT	FK (UserID)	Links to the customer who left the review.
4	DeliveryBoylD	INT	FK (UserID)	Links to the delivery boy being reviewed.
5	Rating	INT	NOT NULL	Customer rating for the delivery (1 to 5).
6	Feedback	TEXT	NULL	Optional feedback provided by the customer.
7	AddedTime	DATETIME	NOT NULL	Timestamp when the review was created.
8	UpdatedTime	DATETIME	NULL	Timestamp when the review was last modified.