

Database Fundamentals - Quick Reference

Chapter 1 : BasketFull Grocery Database Schema

This document describes the main database tables and their relationships for the BasketFull grocery website.

Chapter 2 : Users Table

- user_id (PK, int, auto-increment): Unique user identifier
- username (varchar): Unique username
- email (varchar): User email
- password_hash (varchar): Hashed password for security
- created_at (datetime): Account creation timestamp
- updated_at (datetime): Last profile update

Chapter 3 : Products Table

- product_id (PK, int, auto-increment): Unique product identifier
- name (varchar): Product name
- description (text): Product details
- price (decimal): Price per unit
- stock_quantity (int): Available quantity
- category (varchar): Product category (e.g., Fruits, Vegetables)
- image_url (varchar): Image location
- created_at (datetime): When product was added
- updated_at (datetime): Last update

Chapter 4 : Cart Table

- cart_id (PK, int, auto-increment): Unique cart identifier
- user_id (FK, int): Links to Users table
- product_id (FK, int): Links to Products table
- quantity (int): Number of product units added
- added_at (datetime): When product was added to cart

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Chapter 5 : Orders Table

- order_id (PK, int, auto-increment): Unique order identifier
- user_id (FK, int): Links to Users table
- total_amount (decimal): Total order value
- order_status (varchar): Status (Pending, Shipped, Delivered)
- created_at (datetime): Order placement time
- updated_at (datetime): Last update

Chapter 6 : Order_Items Table

- order_item_id (PK, int, auto-increment): Unique item entry
- order_id (FK, int): Links to Orders table
- product_id (FK, int): Links to Products table
- quantity (int): Quantity ordered
- price_at_order (decimal): Price at time of order

Chapter 7 : Payments Table

- payment_id (PK, int, auto-increment): Unique payment identifier
- order_id (FK, int): Links to Orders table
- payment_method (varchar): E.g., UPI, COD, Card
- payment_status (varchar): E.g., Paid, Pending
- payment_date (datetime): Date and time of payment

Chapter 8 : Relationships

- One User can have multiple Orders and Cart entries.
- Each Order can have multiple Order_Items.
- Each Order has one Payment.
- Products are linked to Cart and Order_Items.