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Step 3: Database Schema Design

1. Customers Table

Table Name: customers

Column Name	Data Type
customer_id	INT (PK)
full_name	VARCHAR(100)
region	VARCHAR(50)
created_at	DATE

Primary Key:

- Customer_id

2. Products Table

Table Name: products

Column Name	Data Type
product_id	INT (PK)
product_name	VARCHAR(100)
category	VARCHAR(50)
unit_price	DECIMAL(10,2)

Primary Key:

- Product_id

3. Sales Table

Table Name: sales

Column Name	Data Type
sale_id	INT (PK)
customer_id	INT (FK)
product_id	INT (FK)
quantity	INT

sale_date	DATE

Primary Key:

- sale_id

Foreign Keys:

- customer_id → customers(customer_id)

- product_id → products(product_id)

ER Diagram

Relationships Explanation

- One customer can make many sales (one-to-many).

- One product can appear in many sales records (one-to-many).

Customer_id, Full_name, region, Created_at

Customers

1

Make

N

Sales

Sale_id, Customer_id (FK), Product_id (FK), Quantity, Sale_date

Product_id, Product_name

Products

Appear

Unity_price, category