Database Design

Practice

You are tasked with designing a database for an e-commerce platform called ***ShopSmart***. This platform enables users to buy and sell a wide range of products online. The system must efficiently manage users, products, orders, payments, and reviews. The platform accommodates two types of users: buyers and sellers. Each user has a unique ID, name, email, phone number, and address, while sellers additionally have a store name and rating. The platform allows sellers to list multiple products for sale, and each product is identified by a unique product ID, name, description, price, stock quantity, and its category (e.g., electronics, clothing, home appliances).

Buyers can place orders containing one or more products in a single transaction. Each order is identified by a unique order ID and includes details such as the buyer who placed the order, the order date, the total price, and the order status (e.g., pending, shipped, delivered). For every product in an order, the quantity purchased must also be recorded. Payments are directly linked to orders, with each payment having a unique payment ID, order details, payment date, method (e.g., credit card, PayPal, cash on delivery), and status (e.g., paid, pending, failed).

1. Design an ER Diagram
2. Convert ER Diagram to Table
3. Implement the Database in MySQL

    - Create tables
    - Insert sample data for each table