E-Commerce Platform Development Report

Abstract

This project involves designing and implementing a MySQL-based database schema for an e-commerce platform. The system supports product management, customer handling, order processing, and secure payment handling. The goal was to build a normalized and scalable database solution.

Introduction

The e-commerce platform database helps manage key business functions like customer information, product catalog, orders, and payments. The system is designed using SQL and follows normalization standards to ensure data integrity and efficient operations.

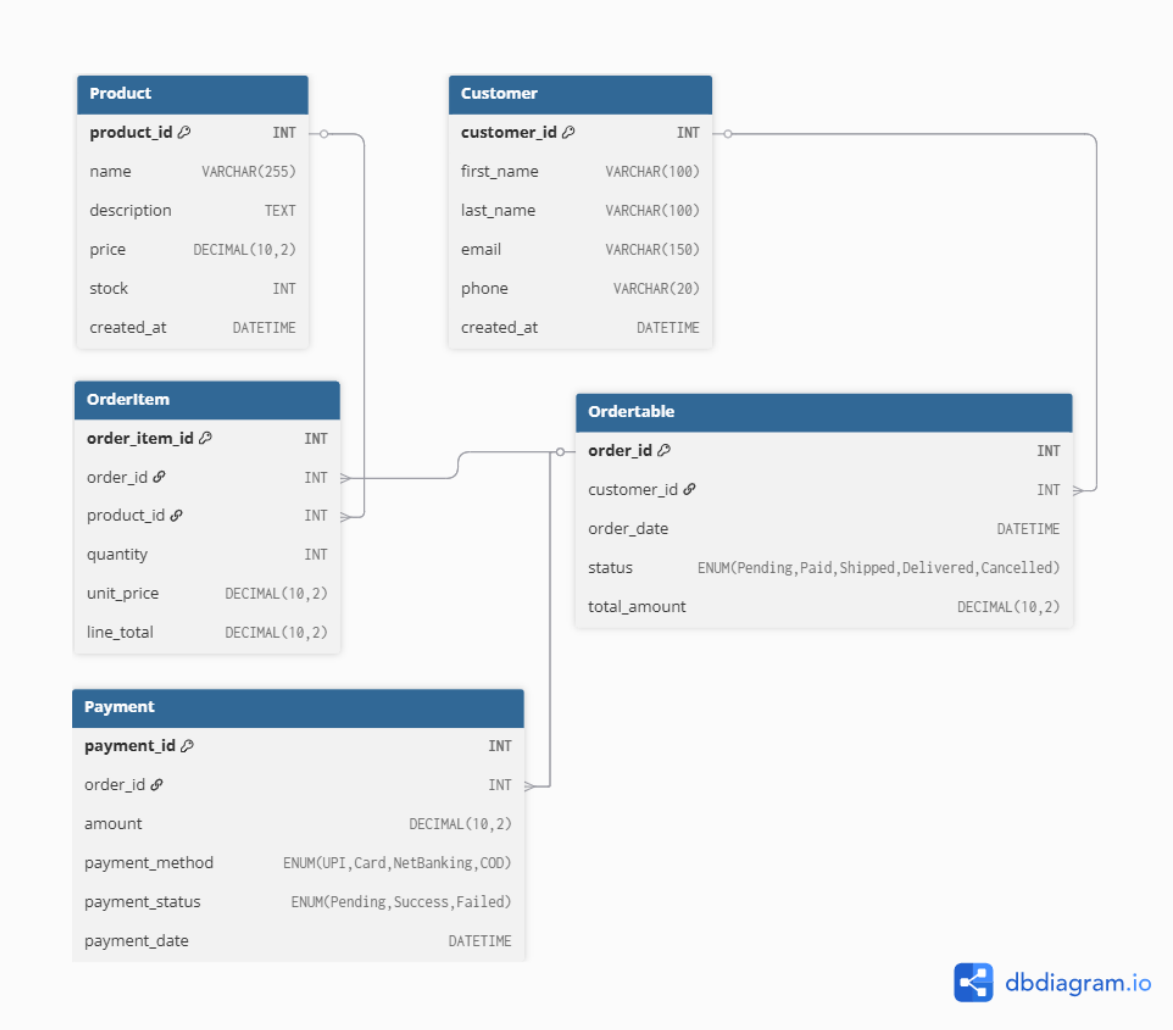
Tools Used

- MySQL Workbench
- MySQL Server
- SQL Scripts
- ER Diagram Tools

Steps Involved in Building the Project

1. Identified core entities: Products, Customers, Orders, and Payments.
2. Designed normalized tables up to 3NF.
3. Created database schema using MySQL CREATE TABLE statements.
4. Inserted sample product and customer data.
5. Executed JOIN queries for reporting and analytics.
6. Created views for daily and product-wise sales analysis.

ER Diagram



Conclusion

The e-commerce database system was successfully designed and normalized to support efficient data handling. It ensures consistency, easy maintenance, and scalability for real-world business use. Future enhancements may include adding user authentication, inventory tracking, and order shipment modules.

DECLARATION

I hereby declare that this project report titled **“E-Commerce Platform”** has been completed and submitted by me as part of the **Elevate Labs Internship**.

Name: Srivasanth. P
Email: srivasanth.2908@gmail.com