

Pharmacy Management System

1. Business Domain

1.1. Retail Health / Drugstore Operations: This project focuses on developing a database-driven application for a pharmacy. It manages medicine stock, customer prescriptions, and daily sales records. The goal is to ensure accurate medicine dispensing, prevent stockouts, and maintain compliance with medical safety standards.

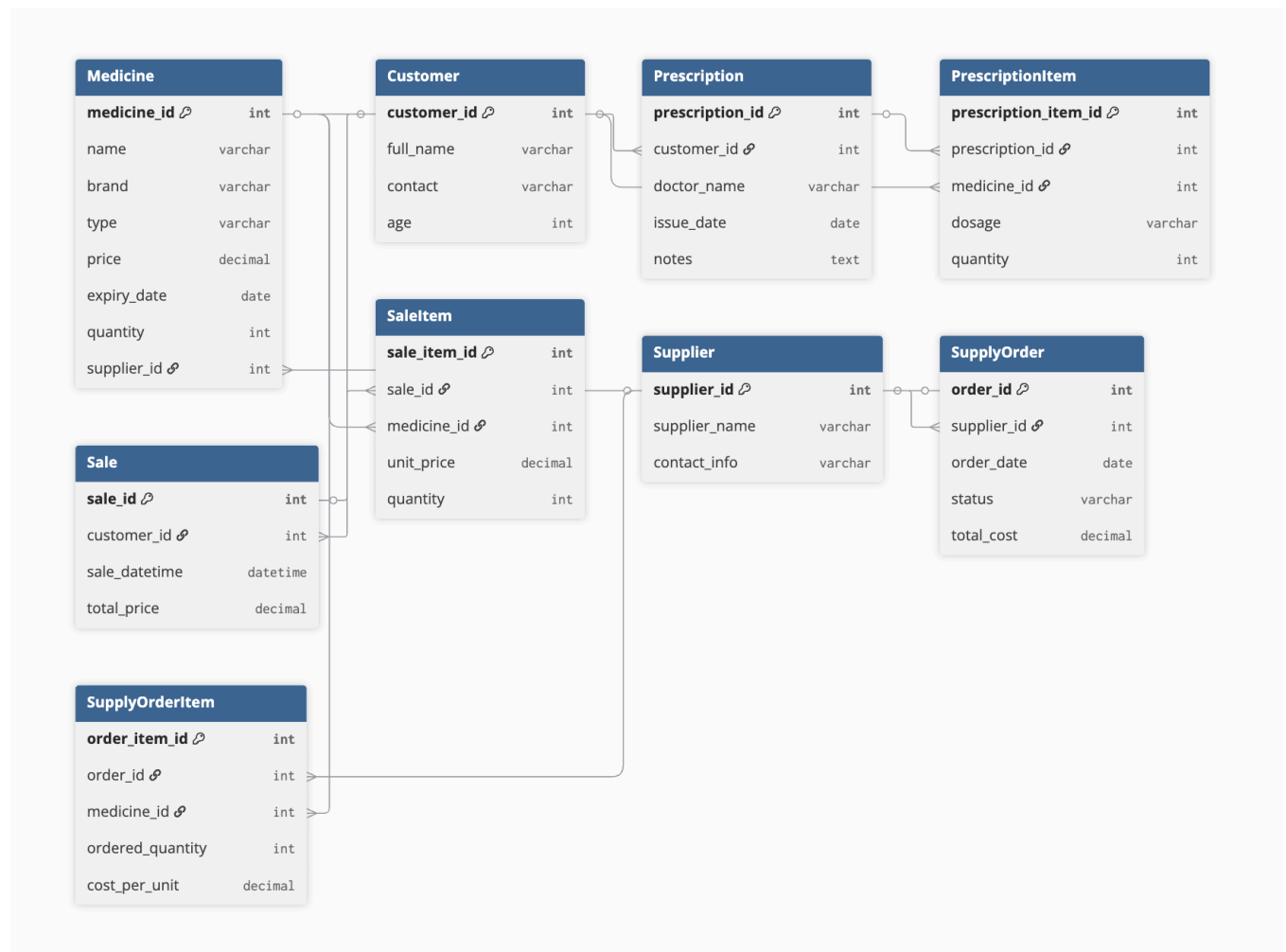
1.2. Business Activities / Processes:

- **Medicine Inventory Management** - Pharmacists add, update, or remove medicine details (name, brand, expiry date, quantity, supplier). The system tracks stock levels and alerts when a medicine is running low.
- **Prescription Processing** - Doctors or pharmacists record prescriptions for customers. The system verifies available stock before dispensing the medicine.
- **Sales Transactions** - Customers purchase medicine (with or without prescriptions). The system generates receipts, records total price, and updates stock automatically.
- **Supplier Management** - The pharmacy orders medicines from multiple suppliers. The system keeps records of suppliers, order dates, and delivery status.
- **Customer Records and History** - Keeps track of customers' purchases and prescriptions for future references or refills.

1.3. Necessity to Collect and Manage Data

- **Each medicine must be tracked** for quantity, expiry date, and supplier source to prevent dispensing expired products.
- **Prescription and customer data must be stored** to ensure correct dosage, avoid duplication, and support follow-up services.
- **Sales and transaction data are required** for accounting, auditing, and restocking analysis.
- **Supplier information helps automate** reordering and maintain business relationships.

2. Database Design



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