**Entities and Attributes:**

1. Patient🡪 Patient ID, Patient Name, Address, Gender, DOB, Email, Contact No, Medical History
2. Doctor🡪 Doctor ID, Doctor Name, Gender, Specialization, Status, Years Of Experience, Salary, DOJ, Email, ContactNo.
3. Prescription🡪 Prescription ID, Patient ID, Doctor ID, Date, List of Medicines, Quantity
4. Medicine🡪 Medicine ID, Medicine Name, Categories, Manufacturer ID, Expiry Date, Price
5. Inventory🡪 Inventory ID, List of medicines, Quantity
6. Stock🡪 Stock ID, Medicine ID, Quanity, Supplier ID, Purchase Date
7. Supplier🡪 Supplier ID, Supplier Name, Address, Contact no,
8. Pharmacist🡪 Pharmacist ID, Pharmacist Name, Contact No, Email, Address, Experience Level
9. Manager🡪 Manager ID, Manager Name, Contact no, Salary
10. Sales🡪 Sales ID, Prescription ID, Date, Total Amount, Payment Method
11. Billing🡪 Bill ID, Pharmacist ID, Prescription ID, Patient Name, Medicine ID, Quantity, Price Per Unit, Total Amount
12. Manufacturer🡪 Manufacturer ID, Manufacturer Name, Address, Contact No, Email, List Of Medicines, Address

**Business Rules:**

1. **One-to-Many:**
   1. Inventory to Medicine: Each inventory item can contain multiple units of the same medicine.
   2. Stock to Medicine: Each stock entry can represent multiple units of a specific medicine.
   3. Sales to Prescription: Each sales transaction can include multiple prescriptions.
   4. Billing to Prescription: Each billing transaction can be associated with a single prescription, but multiple billings can be linked to different prescriptions over time.
   5. Manufacturer to Medicine: Each manufacturer can produce multiple medicines.
   6. Doctor to Prescription: A doctor can prescribe multiple prescriptions, but each prescription is prescribed by only one doctor.
   7. Supplier to Stock: Each supplier can provide multiple stock entries, but each stock entry is associated with only one supplier
2. **Many-to-One:**
3. Medicine to Inventory: Multiple inventory items can contain the same medicine.
4. Medicine to Stock: Multiple stock entries can represent the same medicine.
5. Prescription to Patient: Multiple prescriptions can be issued to the same patient.
6. Prescription to Doctor: Multiple prescriptions can be prescribed by the same doctor.
7. Sales to Pharmacist: Multiple sales transactions can be handled by the same pharmacist.
8. Billing to Pharmacist: Multiple billing transactions can be processed by the same pharmacist.
9. Prescription to Sales: Multiple sales transactions can be generated from a single prescription.
10. Medicine to Prescription (Contains relationship): Each medicine can be contained in multiple prescriptions, but each prescription contains multiple medicines.
11. Sales to Billing: Multiple billing transactions can be generated from a single sales transaction.
12. Pharmacist to Billing: Multiple billing transactions can be handled by the same pharmacist.
13. **Many-to-One:**
    1. Prescription to Medicine (Contains relationship): Each prescription can contain multiple medicines, and each medicine can be included in multiple prescriptions.
    2. Medicine to Sales (Sold In relationship): Each medicine can be sold in multiple sales transactions, and each sales transaction can include multiple medicines.
    3. Medicine to Manufacturer (Manufactured By relationship): Each medicine can be manufactured by multiple manufacturers, and each manufacturer can produce multiple medicines
14. **One-to-One:**
    1. Manager to Manager ID: Each manager has a unique manager ID.
    2. Supplier to Supplier ID: Each supplier has a unique supplier ID.