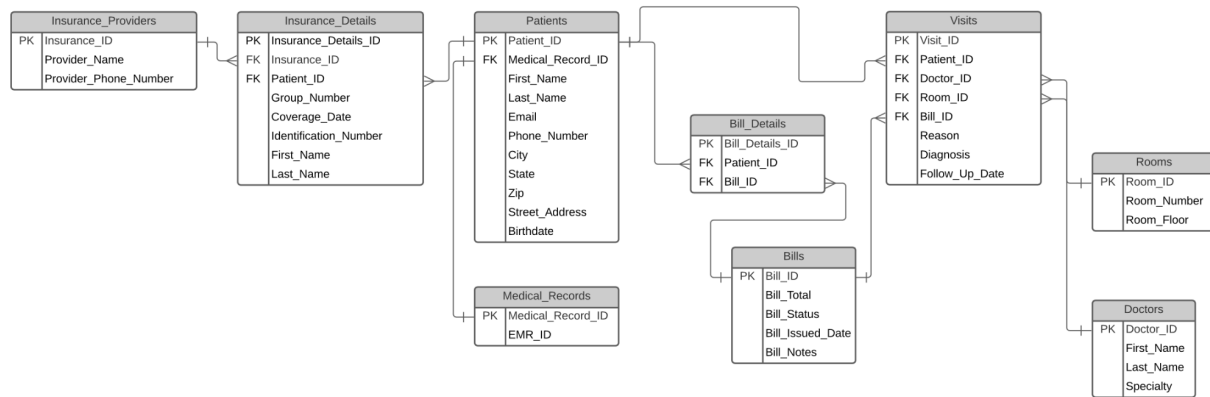# Data Models For Questions 2 & 3
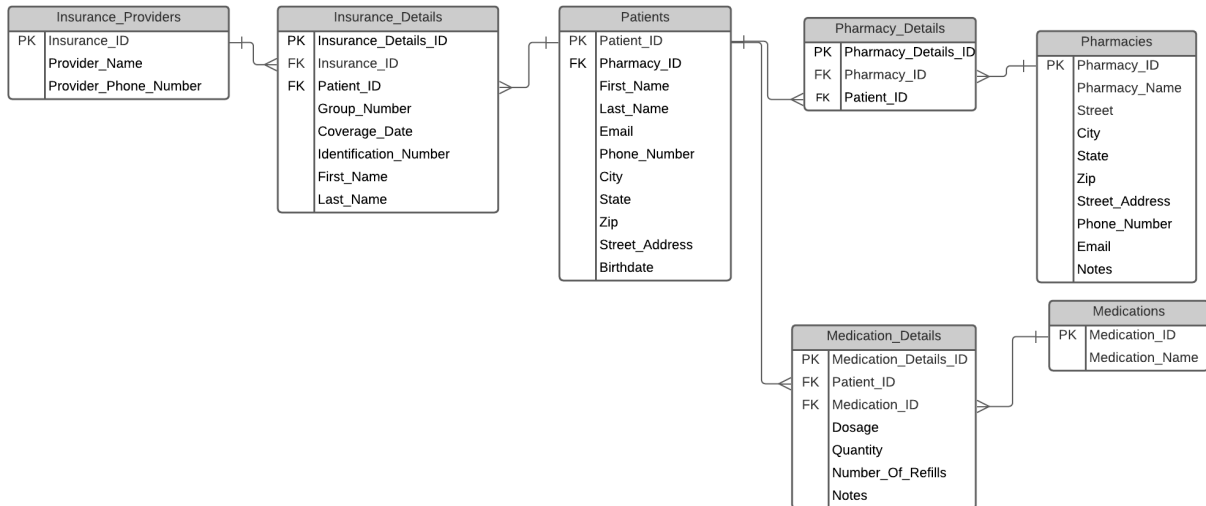
OLTPs:

- Patient medical care management (hospital's accounts receivables)
- Patient medication and info management (sending data to patient's pharmacy)
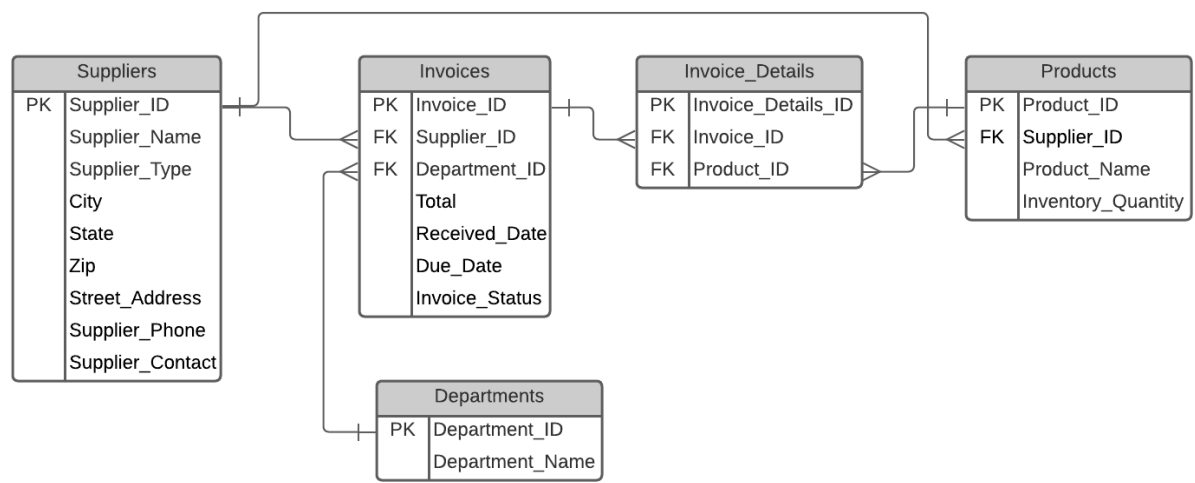- Medical supplies management (hospital's accounts payable)

Patient Medical Care Management:

Patient Medication Management:

Medical Supplies Management:

Suppliers
PK	Supplier_ID
	Supplier_Name
	Supplier_Type
	City
	State
	Zip
	Street_Address
	Supplier_Phone
	Supplier_Contact

Invoices
PK	Invoice_ID
FK	Supplier_ID
FK	Department_ID
	Total
	Received_Date
	Due_Date
	Invoice_Status

Invoice_Details
PK	Invoice_Details_ID
FK	Invoice_ID
FK	Product_ID

Products
PK	Product_ID
FK	Supplier_ID
	Product_Name
	Inventory_Quantity

Departments
PK	Department_ID
	Department_Name

Data Warehouse:

Visits
- Visit_ID (PK)
- Patient_ID (FK)
- Diagnosis
- Reason
- Bill_Total
- Bill_Due_Date
- Bill_Status
- Doctor_ID (FK)
- Room_Number

Patients
- Patient_ID (PK)
- Group_Number
- Insurance_ID (FK)
- Insurance_ID_Number
- Insurance_Coverage_Date
- First_Name
- Last_Name
- Birthdate
- Email
- Phone_Number
- Street_Address
- City
- State
- Zip

Medication_Details
- Med_Detail_ID (PK)
- Patient_ID (FK)
- Pharmacy_ID (FK)
- Medication_ID (FK)
- Dosage
- Quantity
- Refills
- Notes

Pharmacies
- Pharmacy_ID (PK)
- Pharmacy_Name
- Email
- Phone
- Street Address
- City
- State
- Zip
- Notes

Doctors
- Doctor_ID (PK)
- First Name
- Last Name
- Specialty
- Department_ID (FK)

Insurance_Providers
- Insurance_ID (PK)
- Provider_Name
- Provider_Phone_Num

Medications
- Medication_ID (PK)
- Medication_Name

Department Info
- Department_ID (PK)
- Department_Name

Invoices
- Invoice_ID (PK)
- Department_ID (FK)
- Total
- Received_Date
- Due Date
- Invoice_Status

Products
- Product_ID (PK)
- Supplier_ID (FK)
- Product_Name
- Product_Quantity

Suppliers
- Supplier_ID (PK)
- Supplier_Name
- Supplier_Type
- Street Address
- City
- State
- Zip
- Supplier_Phone
- Supplier_Contact

Invoice_Details
- Invoice_Detail_ID (PK)
- Invoice_ID (FK)
- Product_ID (FK)