Patients Table

sql

```
CREATE TABLE Patients (
  patient_id INT PRIMARY KEY,
  name VARCHAR(100),
  age INT,
  gender VARCHAR(10),
  contact_number VARCHAR(15)
);
```

Doctors Table

sql

```
CREATE TABLE Doctors (
  doctor_id INT PRIMARY KEY,
  name VARCHAR(100),
  specialization VARCHAR(50),
  contact_number VARCHAR(15)
);
```

Appointments Table

sql

```
CREATE TABLE Appointments (
  appointment_id INT PRIMARY KEY,
  patient_id INT,
  doctor_id INT,
  appointment_date DATE,
  FOREIGN KEY (patient_id) REFERENCES Patients(patient_id),
  FOREIGN KEY (doctor_id) REFERENCES Doctors(doctor_id)
);
```

Diagnoses Table

sql

```
CREATE TABLE Diagnoses (
  diagnosis_id INT PRIMARY KEY,
  appointment_id INT,
  symptoms TEXT,
  diagnosis TEXT,
  FOREIGN KEY (appointment_id) REFERENCES Appointments(appointment_id)
);
```

Prescriptions Table

sql

```
CREATE TABLE Prescriptions (
  prescription_id INT PRIMARY KEY,
  appointment_id INT,
  medicine_name VARCHAR(100),
  dosage VARCHAR(50),
  FOREIGN KEY (appointment_id) REFERENCES Appointments(appointment_id)
);
```

Billing Table

sql

```
CREATE TABLE Billing (
  bill_id INT PRIMARY KEY,
  appointment_id INT,
  amount DECIMAL(10,2),
  payment_status VARCHAR(20),
  FOREIGN KEY (appointment_id) REFERENCES Appointments(appointment_id)
);
```

3. Insert Sample Data

sql

```
-- Patients
INSERT INTO Patients VALUES
(1, 'Sathvika', 22, 'Female', '9999912345'),
(2, 'Raj', 30, 'Male', '8888812345');

-- Doctors
INSERT INTO Doctors VALUES
(1, 'Dr. Sharma', 'Cardiology', '7777712345'),
(2, 'Dr. Meena', 'Dermatology', '6666612345');

-- Appointments
INSERT INTO Appointments VALUES
(101, 1, 1, '2025-07-25'),
(102, 2, 2, '2025-07-26');

-- Diagnoses
INSERT INTO Diagnoses VALUES
(1001, 101, 'Chest pain, fatigue', 'Mild Heart Block'),
```

(1002, 102, 'Skin rash', 'Allergic Reaction');

-- Prescriptions
INSERT INTO Prescriptions VALUES
(201, 101, 'Aspirin', '1 tab/day'),
(202, 102, 'Cetirizine', '1 tab/night');

-- Billing
INSERT INTO Billing VALUES
(301, 101, 1500.00, 'Paid'),
(302, 102, 800.00, 'Unpaid');

4. Useful Queries

1. List all patients and their doctors

sql

```
SELECT p.name AS patient_name, d.name AS doctor_name, d.specialization
FROM Patients p
JOIN Appointments a ON p.patient_id = a.patient_id
JOIN Doctors d ON a.doctor_id = d.doctor_id;
```

2. Get all diagnoses with patient names

sql

```
SELECT p.name, d.diagnosis, d.symptoms
FROM Diagnoses d
JOIN Appointments a ON d.appointment_id = a.appointment_id
JOIN Patients p ON a.patient_id = p.patient_id;
```

3. Show unpaid bills

sql

```
SELECT p.name, b.amount, b.payment_status
FROM Billing b
JOIN Appointments a ON b.appointment_id = a.appointment_id
JOIN Patients p ON a.patient_id = p.patient_id
WHERE b.payment_status = 'Unpaid';
```

4. Total revenue collected

sql

```
SELECT SUM(amount) AS total_collected
FROM Billing
WHERE payment_status = 'Paid';
```