SQL Code

For creating tables

```sql
-- Create Patient table
CREATE TABLE Patient (
    PatientID INT PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    DateOfBirth DATE,
    Gender CHAR(1),
    ContactNumber VARCHAR(15),
    Address VARCHAR(100)
);

-- Create Doctor table
CREATE TABLE Doctor (
    DoctorID INT PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    Specialty VARCHAR(50),
    ContactNumber VARCHAR(15),
    Email VARCHAR(100)
);

-- Create Appointment table
CREATE TABLE Appointment (
    AppointmentID INT PRIMARY KEY,
    PatientID INT,
    DoctorID INT,
    AppointmentDate DATE,
    AppointmentTime TIME,
    Status VARCHAR(20),
```

```sql
    FOREIGN KEY (PatientID) REFERENCES Patient(PatientID),

    FOREIGN KEY (DoctorID) REFERENCES Doctor(DoctorID)

);


-- Create Department table

CREATE TABLE Department (

    DepartmentID INT PRIMARY KEY,

    DepartmentName VARCHAR(50),

    Description VARCHAR(100)

);


-- Create MedicalRecord table

CREATE TABLE MedicalRecord (

    RecordID INT PRIMARY KEY,

    PatientID INT,

    DoctorID INT,

    Diagnosis VARCHAR(200),

    Prescription VARCHAR(200),

    DateRecorded DATE,

    FOREIGN KEY (PatientID) REFERENCES Patient(PatientID),

    FOREIGN KEY (DoctorID) REFERENCES Doctor(DoctorID)

);
```

Inserting Data in above tables

```sql
-- Insert records into the Patient table

INSERT INTO Patient (PatientID, FirstName, LastName, DateOfBirth, Gender, ContactNumber, Address)

VALUES

    (1, 'John', 'Doe', '1980-05-15', 'M', '123-456-7890', '123 Main St'),

    (2, 'Jane', 'Smith', '1992-08-21', 'F', '987-654-3210', '456 Oak St'),

    (3, 'Bob', 'Johnson', '1975-03-10', 'M', '555-123-4567', '789 Pine St');
```

```sql
-- Insert records into the Doctor table

INSERT INTO Doctor (DoctorID, FirstName, LastName, Specialty, ContactNumber, Email)

VALUES

    (1, 'Dr. Sarah', 'Williams', 'Cardiology', '111-222-3333', 'sarah@email.com'),

    (2, 'Dr. Michael', 'Jones', 'Pediatrics', '444-555-6666', 'michael@email.com'),

    (3, 'Dr. Emily', 'Smith', 'Orthopedics', '777-888-9999', 'emily@email.com');


-- Insert records into the Appointment table

INSERT INTO Appointment (AppointmentID, PatientID, DoctorID, AppointmentDate,
AppointmentTime, Status)

VALUES

    (1, 1, 1, '2024-02-01', '10:00:00', 'Scheduled'),

    (2, 2, 2, '2024-02-03', '14:30:00', 'Completed'),

    (3, 3, 3, '2024-02-05', '09:15:00', 'Scheduled');


-- Insert records into the Department table

INSERT INTO Department (DepartmentID, DepartmentName, Description)

VALUES

    (1, 'Cardiology', 'Specializing in heart-related issues'),

    (2, 'Pediatrics', 'Medical care for children'),

    (3, 'Orthopedics', 'Dealing with musculoskeletal issues');


-- Insert records into the MedicalRecord table

INSERT INTO MedicalRecord (RecordID, PatientID, DoctorID, Diagnosis, Prescription, DateRecorded)

VALUES

    (1, 1, 1, 'High blood pressure', 'Medication A, Lifestyle changes', '2024-02-02'),

    (2, 2, 2, 'Common cold', 'Rest, plenty of fluids', '2024-02-04'),

    (3, 3, 3, 'Fractured leg', 'Surgery scheduled', '2024-02-06');
```