

# Table Query

## 1. Patient Table

```
CREATE TABLE Patients(  
  Patient_id VARCHAR(10) PRIMARY KEY,  
  First_name VARCHAR(15),  
  Last_name VARCHAR(15),  
  DOB DATE,  
  Gender VARCHAR(10),  
  Contact_number VARCHAR(10),  
  Pat_add VARCHAR(50),  
  Reg_date DATE,  
  CHECK (Gender IN('Male','Female','Others')))
```

## 2. Departments Table

```
CREATE TABLE Deapartments(  
  Dept_id VARCHAR(10) PRIMARY KEY,  
  Dept_name VARCHAR(30))
```

### 3. Doctors Table

```
CREATE TABLE Doctors(  
  Doctor_id VARCHAR(10) PRIMARY KEY,  
  First_name VARCHAR(15) NOT NULL,  
  Last_name VARCHAR(15),  
  Specialization VARCHAR(30) NOT NULL,  
  Contact_no VARCHAR(10) NOT NULL,  
  Email_id VARCHAR(35),  
  Dept_id VARCHAR(10) FOREIGN KEY REFERENCES Deapartments(Dept_id))
```

### 4. Appointments Table

```
CREATE TABLE Appointments(  
  App_id VARCHAR(10) PRIMARY KEY,  
  Patient_id VARCHAR(10) FOREIGN KEY REFERENCES Patients(Patient_id),  
  Doctor_id VARCHAR(10) FOREIGN KEY REFERENCES Doctors(Doctor_id),  
  App_date DATE NOT NULL,  
  App_time TIME,  
  App_Status VARCHAR(15),  
  CHECK (App_Status IN('Completed','Cancelled','Pending'))  
)
```

## 5. Medical Records Table

```
CREATE TABLE Medical_records(  
Record_id VARCHAR(10) PRIMARY KEY,  
Patient_id VARCHAR(10) FOREIGN KEY REFERENCES Patients(Patient_id),  
Doctor_id VARCHAR(10) FOREIGN KEY REFERENCES Doctors(Doctor_id),  
Diagnosis VARCHAR(30) NOT NULL,  
Treatment VARCHAR(100) NOT NULL,  
Prescription VARCHAR(100) NOT NULL,  
Visit_date DATE)
```

## 6. Billing Table

```
CREATE TABLE Billing(  
Bill_id VARCHAR(10) PRIMARY KEY,  
Patient_id VARCHAR(10) FOREIGN KEY REFERENCES Patients(Patient_id),  
App_id VARCHAR(10) FOREIGN KEY REFERENCES Appointments(App_id),  
Bill_date DATE,  
Total_amount int,  
Payment_status VARCHAR(10),  
Payment_mode VARCHAR(10),  
CHECK(Payment_status IN('Paid','Unpaid','Pending')),  
CHECK(Payment_mode IN('Cash','Insurance','Card'))  
)
```

## 7. Staff Table

```
CREATE TABLE Staff(  
  Staff_id VARCHAR(10) PRIMARY KEY,  
  First_name VARCHAR(15) NOT NULL,  
  Last_name VARCHAR(15),  
  Staff_Role VARCHAR(15),  
  Dept_id VARCHAR(10) FOREIGN KEY REFERENCES Deapartments(Dept_id),  
  Contact_no VARCHAR(10) NOT NULL,  
  Hire_date DATE,  
  CHECK (Staff_Role IN('Nurse','Admin','Pharmacist'))  
)
```

## 8. Rooms Table

```
CREATE TABLE Rooms(  
  Room_id VARCHAR(10) PRIMARY KEY,  
  Room_no VARCHAR(5) NOT NULL,  
  Room_type VARCHAR(15),  
  Dept_id VARCHAR(10) FOREIGN KEY REFERENCES Deapartments(Dept_id),  
  Availability_status VARCHAR(15),  
  CHECK(Room_type IN('Single','Shared','ICU')),  
  CHECK(Availability_status IN('Occupied','Available'))  
)
```

## 9. Medications Table

```
CREATE TABLE Medications(  
  Med_id VARCHAR(10) PRIMARY KEY,  
  Med_name VARCHAR(30) NOT NULL,  
  Dosage VARCHAR(30) NOT NULL,  
  Cost INT,  
  Patient_id VARCHAR(10) FOREIGN KEY REFERENCES Patients(Patient_id),  
  Doctor_id VARCHAR(10) FOREIGN KEY REFERENCES Doctors(Doctor_id)  
)
```

## 10. Lab Tests Table

```
CREATE TABLE Lab_Tests(  
  Test_id VARCHAR(10) PRIMARY KEY,  
  Test_name VARCHAR(30) NOT NULL,  
  Test_Description VARCHAR(100),  
  Price INT,  
  Patient_id VARCHAR(10) FOREIGN KEY REFERENCES Patients(Patient_id),  
  Doctor_id VARCHAR(10) FOREIGN KEY REFERENCES Doctors(Doctor_id)  
)
```

## 11. Test Results Table

```
CREATE TABLE Test_Results(  
  Result_id VARCHAR(10) PRIMARY KEY,  
  Patient_id VARCHAR(10) FOREIGN KEY REFERENCES Patients(Patient_id),  
  Doctor_id VARCHAR(10) FOREIGN KEY REFERENCES Doctors(Doctor_id),  
  Test_id VARCHAR(10) FOREIGN KEY REFERENCES Lab_Tests(Test_id),  
  Test_date DATE,  
  Result VARCHAR(100)  
)
```