# Day 19 – SQL Practice: Hospital Management Dataset

## 🏥 Dataset Overview

This dataset models a hospital management system, including patients, doctors, appointments, and treatments. It is designed to help practice JOINs, subqueries, filtering, grouping, and healthcare-based analytics.

## 📁 Tables and Sample Data

1. Patients

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PatientID | Name | Gender | Age | City |
| 1 | Anita | Female | 30 | Delhi |
| 2 | Ravi | Male | 45 | Mumbai |
| 3 | Sara | Female | 29 | Bangalore |
| 4 | Arjun | Male | 60 | Hyderabad |
| 5 | Meena | Female | 35 | Chennai |

2. Doctors

|  |  |  |  |
| --- | --- | --- | --- |
| DoctorID | Name | Specialization | Experience |
| 101 | Dr.Sen | Cardiology | 15 |
| 102 | Dr.Iyer | Neurology | 20 |
| 103 | Dr.Gupta | Orthopedics | 10 |
| 104 | Dr.Das | Dermatology | 8 |

3. Appointments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AppointmentID | PatientID | DoctorID | AppointmentDate | Fees |
| 1001 | 1 | 101 | 2024-06-01 | 500 |
| 1002 | 2 | 102 | 2024-06-03 | 600 |
| 1003 | 3 | 101 | 2024-06-04 | 500 |
| 1004 | 4 | 103 | 2024-06-05 | 450 |
| 1005 | 5 | 104 | 2024-06-07 | 400 |
| 1006 | 1 | 104 | 2024-06-08 | 400 |
| 1007 | 2 | 103 | 2024-06-09 | 450 |

4. Treatments

|  |  |  |  |
| --- | --- | --- | --- |
| TreatmentID | AppointmentID | Diagnosis | PrescribedMedication |
| 201 | 1001 | High BP | Amlodipine |
| 202 | 1002 | Migraine | Sumatriptan |
| 203 | 1003 | Arrhythmia | Beta Blockers |
| 204 | 1004 | Fracure | Calcium Supplements |
| 205 | 1005 | Eczema | Topical Steroids |
| 206 | 1006 | Allergy | Antihistamines |

## 🧠 Practice Questions

1) List all patients and the number of appointments they have taken.

2) Show total fees collected by each doctor.

3) Find the doctor with the highest average consultation fee.

4) Display names of patients who have consulted more than one doctor.

5) Show patients who have not undergone any treatment yet.

6) List the top 2 cities with the most patients.

7) Display doctor-wise count of different diagnoses they handled.

8) Find patients who have consulted a doctor specialized in 'Cardiology'.

9) Identify doctors who treated at least 2 patients over age 40.

10) List patients who consulted doctors with more than 10 years experience.

🎯 Bonus Challenge:

Find doctors who have never been consulted by any patient.