

Hospital Patient Database Report

1. Patient Reports

- List of all patients
- Patient medical history
- Patients who missed/canceled appointments
- Patients with unpaid bills
- Patients who haven't visited in the last 6 months

2. Doctor Reports

- List of all doctors
- Number of appointments per doctor
- Doctors with no appointments in the last month
- Revenue generated by each doctor
- Doctors specializing in more than one area

3. Appointment Reports

- Total appointments per day/month
- Appointments for a specific patient or doctor
- Most frequent patients (top 3 by number of visits)

4. Billing Reports

- Total revenue per month/year
- Unpaid bills and pending payments
- Total income from appointments for each doctor

SQL Queries for Reports

Total Appointments Per Day

```
SELECT appointment_date, COUNT(*) AS total_appointments FROM Appointments GROUP BY appointment_date;
```

Total Revenue Generated Per Month

```
SELECT MONTH(bill_date) AS month, YEAR(bill_date) AS year, SUM(amount) AS total_revenue FROM Billing WHERE status = 'Paid' GROUP BY YEAR(bill_date), MONTH(bill_date);
```

Doctors with No Appointments in the Last Month

```
SELECT d.name FROM Doctors d LEFT JOIN Appointments a ON d.doctor_id = a.doctor_id AND  
a.appointment_date >= DATE_SUB(CURDATE(), INTERVAL 1 MONTH) WHERE a.appointment_id IS  
NULL;
```

Patients with Pending Bills

```
SELECT p.name, b.amount, b.bill_date FROM Patients p JOIN Billing b ON p.patient_id = b.patient_id  
WHERE b.status = 'Pending';
```