



MEDITRACT PROJECT

List all patients above 60 years.

```
SELECT * FROM patients where  
age>60;
```

Show appointments for “Dr. R. Mehta”.

```
SELECT a.appointment_id, p.name  
AS patient_name, a.appointment_date, a.diagnosis  
FROM Appointments a  
JOIN Patients p ON a.patient_id = p.patient_id  
JOIN Doctors d ON a.doctor_id = d.doctor_id  
WHERE d.name = 'Dr. R. Mehta';
```



Total number of patient from each city.

```
SELECT city, COUNT(*) AS total_patients  
FROM patients  
GROUP BY city  
ORDER BY total_patients DESC;
```

Doctors with more than 10 years of experience.

```
SELECT name, specialization, experience_years  
FROM doctors  
WHERE experience_years>10;
```

Total revenue generated.

```
SELECT SUM(amount) AS total_revenue  
FROM billing  
WHERE payment_status = 'paid';
```

Top 3 doctors with most appointment.

```
SELECT d.name, COUNT(a.appointment_id) as  
total_appointments  
  
FROM doctors d  
  
JOIN appointments a ON d.doctor_id = a.doctor_id  
  
GROUP BY d.name  
  
ORDER BY total_appointments DESC LIMIT 3;
```

Patients with more than 1 appointment in the same month.

```
SELECT patient_id, COUNT(*) AS total_appointments  
FROM appointments  
GROUP BY patient_id, EXTRACT(MONTH FROM  
appointment_date)  
HAVING COUNT(*)>1;
```


Average bill amount per doctor.

```
SELECT d.name, AVG(b.amount) as avg_bill  
FROM doctors d  
JOIN appointments a ON d.doctor_id = a.doctor_id  
JOIN billing b ON a.appointment_id = B.appointment_id  
GROUP BY d.name;
```

Patients with unpaid bills.

```
SELECT DISTINCT p.name, b.amount  
FROM patients p  
JOIN appointments a ON p.patient_id = a.patient_id  
JOIN billing b ON a.appointment_id = b.appointment_id  
WHERE b.payment_status = 'pending';
```

Monthly revenue trend.

```
SELECT  EXTRACT(MONTH  
FROM payment_date) AS month,  
SUM(amount) AS total_revenue  
FROM BillingWHERE payment_status = 'Paid'  
GROUP BY EXTRACT(MONTH FROM payment_date)  
ORDER BY month;
```



thank you

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