1. Total Patients

SELECT COUNT(DISTINCT patient\_id) AS total\_patients

FROM patients;

2. Total Billing Amount

SELECT SUM(billing\_amount) AS total\_billing

FROM patients;

3. Average Billing Amount

SELECT AVG(billing\_amount) AS average\_billing

FROM patients;

4. Average Length of Stay (Discharge - Admission)

SELECT AVG(DATEDIFF(discharge\_date, admission\_date)) AS avg\_length\_of\_stay

FROM patients;

5. Admission Trend Over Time

SELECT

DATE\_FORMAT(admission\_date, '%Y-%m') AS month,

COUNT(\*) AS admission\_count

FROM patients

GROUP BY month

ORDER BY month;

6. Gender Distribution

SELECT gender, COUNT(\*) AS total

FROM patients

GROUP BY gender;

7. 👶👵 Patient Count by Age Group

SELECT

CASE

WHEN age BETWEEN 0 AND 18 THEN '0-18'

WHEN age BETWEEN 19 AND 35 THEN '19-35'

WHEN age BETWEEN 36 AND 50 THEN '36-50'

WHEN age BETWEEN 51 AND 65 THEN '51-65'

ELSE '66+'

END AS age\_group,

COUNT(\*) AS total

FROM patients

GROUP BY age\_group

ORDER BY age\_group;

8. 🩸 Blood Group Distribution

SELECT blood\_type, COUNT(\*) AS total

FROM patients

GROUP BY blood\_type;

**BILLING & INSURANCE OVERVIEW**

9. Billing Amount by Insurance Provider

SELECT insurance\_provider, SUM(billing\_amount) AS total\_billing

FROM patients

GROUP BY insurance\_provider

ORDER BY total\_billing DESC;

10. 🏥 Patient Count per Hospital

SELECT hospital, COUNT(\*) AS patient\_count

FROM patients

GROUP BY hospital ORDER BY patient\_count DESC;

11. Billing Amount Over Months

SELECT

DATE\_FORMAT(admission\_date, '%M') AS month,

SUM(billing\_amount) AS total\_billing

FROM patients

GROUP BY month

ORDER BY STR\_TO\_DATE(month, '%M'); -- Orders Jan-Dec correctly

**DEMOGRAPHICS & ADMISSIONS**

12. Top 5 Medical Conditions

SELECT medical\_condition, COUNT(\*) AS condition\_count

FROM patients

GROUP BY medical\_condition

ORDER BY condition\_count DESC

LIMIT 5;

13. Total Patients by Admission Type

SELECT admission\_type, COUNT(\*) AS total

FROM patients

GROUP BY admission\_type;

14. Total Patients by Medication

SELECT medication, COUNT(\*) AS total

FROM patients

GROUP BY medication

ORDER BY total DESC

LIMIT 5;

15. Total Patients by Test Results

SELECT test\_results, COUNT(\*) AS total

FROM patients

GROUP BY test\_results;