--1. Total Number of Patients .
find the total number of patients across all hospitals.

Answer:-
SELECT SUM (patients_count) AS Total_number_of_patients
FROM hospital;

--2. Average Number of Doctors per Hospital .
Retrieve the average count of doctors available in each hospital.

Answer:-
SELECT AVG (doctors_count) AS avg_doctor_count,hospital_name
FROM hospital
GROUP BY hospital_name;

--3. Top 3 Departments with the Highest Number of Patients .
Find the top 3 hospital departments that have the highest number of patients.

Answer:-
SELECT department, SUM(patients_count) AS number_of_patients
FROM hospital
GROUP BY department
ORDER BY number_of_patients DESC
LIMIT 3 ;

--4. Hospital with the Maximum Medical Expenses.
Identify the hospital that recorded the highest medical expenses.

Answer:-
SELECT hospital_name,SUM(medical_expenses) AS max_medical_expenses
FROM hospital
GROUP BY hospital_name
ORDER BY max_medical_expenses DESC
LIMIT 1 ;

--5. Daily Average Medical Expenses .
Calculate the average medical expenses per day for each hospital.

Answer:-
SELECT SUM (medical_expenses)
/SUM ((discharge_date - admission_date) +1) AS daily_avg_medical_expenses
FROM hospital;

--6. Longest Hospital Stay .
Find the patient with the longest stay by calculating the difference between Discharge Date and Admission Date.

Answer:-
SELECT hospital_name ,admission_date,discharge_date,((discharge_date - admission_date) + 1) AS number_of_stay_days
FROM hospital
ORDER BY number_of_stay_days DESC
LIMIT 1 ;

--7. Total Patients Treated Per City .
Count the total number of patients treated in each city.

Answer:-
SELECT hospital_location, SUM(patients_count)AS patients_treated_per_city
FROM Hospital
GROUP BY hospital_location
ORDER BY patients_treated_per_city DESC;

--8. Average Length of Stay Per Department.
Calculate the average number of days patients spend in each department.

Answer:-
SELECT department ,AVG((discharge_date - admission_date) +1) AS avg_stay_days
FROM hospital
GROUP BY department
ORDER BY avg_stay_days DESC;

--9. Identify the Department with the Lowest Number of Patients .
Find the department with the least number of patients.

Answer:-
SELECT department, SUM(patients_count) AS number_of_patients
FROM Hospital
GROUP BY department
ORDER BY number_of_patients ASC;

--10. Monthly Medical Expenses Report .
Group the data by month and calculate the total medical expenses for each month.

Answer:-
SELECT DATE_TRUNC ('month' , admission_date) AS month, SUM(medical_expenses) AS Monthly_expenses
FROM hospital
GROUP BY month;

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SQL PROJECT

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