30 Days SQL Micro course answer PDF

1. Total Number of Patients

Write an SQL query to find the total number of patients across all hospitals.

Answer:-

SELECT SUM(patients_count) AS TotalPatients

FROM Hospitals;

2. Average Number of Doctors per Hospital

Retrieve the average count of doctors available in each hospital.

Answer:-

SELECT hospital_name, ROUND(AVG(doctors_count),2) AS average_doctors

FROM hospitals

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, patients_count

FROM Hospitals

ORDER BY patients_count DESC

LIMIT 3;

4. Hospital with the Maximum Medical Expenses

Identify the hospital that recorded the highest medical expenses.

Answer:-

SELECT hospital_name, medical_expenses

FROM Hospitals

ORDER BY medical_expenses DESC

LIMIT 1;

5. Daily Average Medical Expenses

Calculate the average medical expenses per day for each hospital.

Answer:-

SELECT hospital_name, ROUND(AVG(medical_expenses / (discharge_date - admission_date +1)),2) AS avgmedicialexpenses

FROM Hospitals

WHERE medical_expenses IS NOT NULL

AND admission_date IS NOT NULL

AND discharge_date IS NOT NULL

GROUP BY hospital_name;

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,((discharge_date - admission_date)+1) AS total_stay

FROM Hospitals

ORDER BY total_stay DESC

LIMIT 1;

7. Total Patients Treated Per City

Count the total number of patients treated in each city.

Answer:-

SELECT location, SUM(patients_count) AS total_patients

FROM Hospitals

GROUP BY location;

8. Average Length of Stay Per Department

Calculate the average number of days patients spend in each department.

Answer:-

SELECT department, ROUND(AVG((discharge_date - admission_date)+1),2) AS avg_total_days

FROM Hospitals

GROUP BY department;

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 Hospitals

GROUP BY department

ORDER BY number_of_patients

LIMIT 1;

10. Monthly Medical Expenses Report

Group the data by month and calculate the total medical expenses for each month.

Answer:-

SELECT TO_CHAR(admission_date,'MM') AS month, ROUND(SUM(medical_expenses),2) AS total_expenses

FROM Hospitals

GROUP BY month

ORDER BY month;