30 Days SQL Micro Course Assignment Solution

By

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1.Total number of patients

SELECT SUM(patients_count) AS Total_Patients

FROM Hospital_Data;

2.Average number of doctors per hospital

SELECT hospital_name,

    AVG(doctors_count) AS AVG_doctors

FROM Hospital_Data

GROUP BY hospital_name;

3.Top 3 departments with highest number of patients

SELECT department, SUM(patients_count) AS total_patients

FROM Hospital_Data

GROUP BY department

ORDER BY total_patients DESC LIMIT 3;

4.Hospital with the maximum medical expenses

SELECT hospital_name, SUM(medical_expenses) AS total_expenses

FROM Hospital_Data

GROUP BY hospital_name

ORDER BY Total_Expenses DESC LIMIT 1;

5.Daily average medical expenses (per hospital)

SELECT Hospital_Name,

ROUND(SUM(Medical_Expenses) / SUM(Discharge_Date - Admission_Date), 2) AS

avg_daily_expenses

FROM hospital_data

GROUP BY Hospital_Name;

6.longest hospital stay

SELECT *,

(Discharge_Date - Admission_Date) AS stay_duration

FROM hospital_data

ORDER BY stay_duration DESC LIMIT 1;

7.Total patients treated per location

SELECT location,

SUM(patients_count) AS total_patients

FROM hospital_data

GROUP BY location

ORDER BY total_patients DESC;

8.Average length of stay per department

SELECT Department,

ROUND(AVG(Discharge_Date - Admission_Date), 2) AS avg_stay

FROM hospital_data

GROUP BY Department;

9.Department with the lowest number of patients

SELECT department,

SUM(patients_count) AS total_patients

FROM hospital_data

GROUP BY department

ORDER BY total_patients ASC LIMIT 1;

10.Monthly medical expenses report

SELECT DATE_TRUNC('month', admission_date) AS month_start,

SUM(medical_expenses) AS total_expenses

FROM hospital_data

GROUP BY month_start

ORDER BY month_start;