

30 Days SQL Micro Course Certificate Assignment

--1. Total Number of Patients

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

A: select SUM(patients_count) as Total_patients from Hs

--2. Average Number of Doctors per Hospital

--o Retrieve the average count of doctors available in each hospital

A: select hospital_name, Round(AVG(doctors_count),2) as average_count_of_doctors
from Hs GROUP BY hospital_name

--3. Top 3 Departments with the Highest Number of Patients

--o Find the top 3 hospital departments that have the highest number of patients.

A: select department, SUM(patients_count) as Total_patients from Hs
GROUP BY department
ORDER BY Total_patients DESC
LIMIT 3

--4. Hospital with the Maximum Medical Expenses

--o Identify the hospital that recorded the highest medical expenses.

A: select hospital_name,
SUM(medical_expenses) AS Total_Expenses from Hs
GROUP BY hospital_name
ORDER BY Total_Expenses DESC
LIMIT 1

--5. Daily Average Medical Expenses

--o Calculate the average medical expenses per day for each hospital.

A: select hospital_name,
Round(AVG(medical_expenses),2) as Avg_medical_expenses
from Hs
GROUP BY hospital_name

--6. Longest Hospital Stay

--o Find the patient with the longest stay by calculating the difference between
--Discharge Date and Admission Date.

A: select hospital_name, AGE(admission_date, discharge_date) as stay from Hs
order by stay asc

--7. Total Patients Treated Per City

--o Count the total number of patients treated in each city.

A: select location as city,SUM(patients_count) as patients_treated
from Hs
GROUP BY location

--8. Average Length of Stay Per Department x

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

A: SELECT Department,
AVG(AGE(admission_date,discharge_date)) AS Avg_Stay_Days
FROM Hs
GROUP BY Department;

--9. Identify the Department with the Lowest Number of Patients

--o Find the department with the least number of patients.

A: select department,SUM(patients_count) as Total from Hs
GROUP BY department
ORDER BY Total