Assignment (30 Days Challenge) SQL Hospital Data

Prepared by: WAQAR AHMED KHAN

1. Total Number of Patients

Select * From hospital data;

SELECT SUM(patient_count) AS total_patients

FROM hospital_data;

Answer: 9347

2. Average Number of Doctors per Hospital

SELECT hospital_name, AVG(doctors_count) AS average_doctors

FROM hospital_data

GROUP BY hospital name;

Answer:

"City Hospital" 24.70 "Healing Touch" 25.64

"Global Medicare" 28.72 "Fortis Care" 24.54

"Sunrise Medical" 28.62 "Green Valley Hospital" 28.87

"Heritage Hospital" 24.66

"Metro Hospital" 27.45

"Apollo Health" 23.36

"Wellness Clinic" 34.00

3. Departments with the Highest Number of Patients

SELECT department, SUM(patient_count) AS total_patients

FROM hospital_data

GROUP BY department

ORDER BY total_patients DESC LIMIT 3;

Answer:

"Urology" 1766

"Neurology" 1229 "ENT" 1064

4. Hospital with the Maximum Medical Expenses

SELECT hospital_name, SUM(medical_expense) AS total_expense

FROM hospital_data

GROUP BY hospital_name

ORDER BY total_expense DESC

LIMIT 1:

Answer:

"Healing Touch" 352178.06

5. Daily Average Medical Expenses

SELECT

hospital_name,

SUM(medical_expense) / NULLIF(SUM(discharge_date - admission_date), 0) AS avg_expense_per_day FROM hospital_data

GROUP BY hospital name;

Answer:

"City Hospital"	4296.15
"Healing Touch"	3486.91
"Global Medicare"	3507.86
"Fortis Care"	4385.42
"Sunrise Medical"	4315.75
"Green Valley Hospital"	2615.94
"Heritage Hospital"	2336.23
"Metro Hospital"	3245.21
"Apollo Health"	3187.75
"Wellness Clinic"	2830.12

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6. Longest Hospital Stay

SELECT *,

(discharge_date - admission_date) AS stay_duration

FROM hospital_data

ORDER BY stay_duration DESC

LIMIT 1;

Answer:

"Apollo Health" "Lucknow" "ENT" 9 171 "2023-04-06" "2023-04-21" 21666.78 15

7. Total Patients Treated Per City

SELECT location, SUM(patient_count) AS total_patients

FROM hospital_data

GROUP BY location;

Answer:

"Bangalore"	955
"Jaipur"	1505
"Lucknow"	1264
"Mumbai"	483
"Kolkata"	596
"Delhi"	421
"Chennai"	840
"Pune"	555
"Hyderabad"	1261
"Ahmedabad"	1467

8. Average Length of Stay Per Department

SELECT department,

AVG(discharge_date - admission_date) AS avg_stay_duration

FROM hospital_data

GROUP BY department;

Answer:

"Dermatology"	5.60
"Oncology"	8.11
"ENT"	8.08
"Neurology"	9.25
"Gynaecology"	7.66
"Paediatrics"	9.11
"Orthopaedics"	7.14
"Cardiology"	6.85
"Urology"	8.72
"General Medicine"	7.42

9. Identify the Department with the Lowest Number of Patients

SELECT department, SUM(patient_count) AS total_patients

FROM hospital_data

GROUP BY department

ORDER BY total_patients ASC

LIMIT 1;

Answer:

"Cardiology" 544

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10. Monthly Medical Expenses Report

SELECT DATE_TRUNC ('month', admission_date) AS month, SUM(medical_expense) AS total_expense

FROM hospital_data

GROUP BY month

ORDER BY month;

Answer:

"2023-01-01 "	173971.54
"2023-02-01 "	301722.72
"2023-03-01 "	199247.42
"2023-04-01 "	88995.93
"2023-05-01"	222986.72
"2023-06-01 "	165926.36
"2023-07-01 "	211527.13
"2023-08-01 "	181039.55
"2023-09-01 "	341284.23
"2023-10-01 "	158450.68
"2023-11-01 "	334370.33
"2023-12-01 "	337788.45