30 Days SQL Micro Course Answers PDF

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1. Total Number of Patients

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

Ans:-

select sum(Patients\_Count) as Total\_of\_Patients from hospital;

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2. Average Number of Doctors per Hospital

Retrieve the average count of doctors available in each hospital.

Ans:-

select avg(doctors\_count) as Avg\_Total\_DOC\_as\_per\_Hospital from hospital;

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3. Top 3 Departments with the Highest Number of Patients

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

Ans:-

SELECT Department, SUM(Patients\_Count) AS total\_patients

FROM hospital

GROUP BY Department

ORDER BY total\_patients DESC

LIMIT 3;

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4. Hospital with the Maximum Medical Expenses

Identify the hospital that recorded the highest medical expenses.

Ans:-

SELECT Hospital\_Name, hospital\_Location, Department, Medical\_Expenses

FROM hospital

ORDER BY Medical\_Expenses DESC

LIMIT 1;

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5. Daily Average Medical Expenses

Calculate the average medical expenses per day for each hospital.

Ans:-

SELECT

Hospital\_Name,hospital\_Location,Department, Medical\_Expenses,

(Discharge\_Date - Admission\_Date + 1) AS total\_days,

ROUND(Medical\_Expenses / NULLIF((Discharge\_Date - Admission\_Date + 1), 0), 2)

AS avg\_expenses\_per\_day FROM hospital;

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6. Longest Hospital Stay

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

Ans:-

SELECT

Hospital\_Name,hospital\_Location, Department, Admission\_Date, Discharge\_Date,

(Discharge\_Date - Admission\_Date) AS stay\_days

FROM hospital

ORDER BY stay\_days DESC

LIMIT 1;

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7. Total Patients Treated Per City

Count the total number of patients treated in each city.

Ans:-

SELECT

hospital\_Location AS city,

SUM(Patients\_Count) AS total\_patients

FROM hospital

GROUP BY hospital\_Location

ORDER BY total\_patients DESC;

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8. Average Length of Stay Per Department

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

Ans:-

SELECT

Department,

ROUND(AVG(Discharge\_Date - Admission\_Date), 2) AS avg\_days\_stayed

FROM hospital

GROUP BY Department

ORDER BY avg\_days\_stayed DESC;

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9. Identify the Department with the Lowest Number of Patients

Find the department with the least number of patients.

Ans:-

SELECT

Department,

SUM(Patients\_Count) AS total\_patients

FROM hospital

GROUP BY Department

ORDER BY total\_patients ASC

LIMIT 1;

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10. Monthly Medical Expenses Report

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

Ans:-

SELECT

DATE\_TRUNC('month', Admission\_Date) AS month,

SUM(Medical\_Expenses) AS total\_expenses

FROM hospital

GROUP BY DATE\_TRUNC('month', Admission\_Date)

ORDER BY month;

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