30 Days SQL Micro Course Certificate Assignment

Instruction:

First, download the **Hospital Data.csv** file and import it into SQL. Then, solve the given queries to complete the **30-Day Micro Course** and earn your certificate. Once all queries are solved, copy the results, paste them into a Word document, convert it to a PDF, and upload the PDF using the Google Form link provided in the video description.

Total Number of Patients

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

Answer

```
SELECT SUM(patients_count) AS total_patients FROM hospital data;
```

2. Average Number of Doctors per Hospital

Retrieve the average count of doctors available in each hospital.

Answer

```
SELECT AVG(doctors_count) AS average_doctors_per_hospital
FROM (

SELECT hospital_name, AVG(doctors_count) AS doctors_count
FROM hospital_data
GROUP BY hospital_name
) AS sub;
```

3. **Top 3 Departments with the Highest Number of Patients** o Find the top 3 hospital departments that have the highest number of patients.

Answer

```
SELECT department, SUM(patients_count) AS total_patients
FROM hospital_data
GROUP BY department
```

LIMIT 3;

Hospital with the Maximum Medical Expenses

 Identify the

 hospital that recorded the highest medical expenses.

Answer

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** O Calculate the average medical expenses per day for each hospital.

Answer

SELECT hospital_name,

ROUND(SUM(medical_expenses) * 1.0 / SUM(DATE_PART('day',

discharge_date - admission_date)), 2) AS avg_daily_expense

FROM hospital_data

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, department, admission_date, discharge_date,

```
DATE_PART('day', discharge_date - admission_date) AS stay_length
FROM hospital_data
ORDER BY stay_length DESC
LIMIT 1;
```

7. **Total Patients Treated Per City** o Count the total number of patients

treated in each city

Answer

SELECT location AS city, SUM(patients_count) AS total_patients

FROM hospital_data

GROUP BY location

ORDER BY total_patients DESC;

8. Average Length of Stay Per Department O Calculate the average

number of days patients spend in each department.

Answer

SELECT department,

 $ROUND (AVG (DATE_PART ('day', discharge_date - admission_date)), 2) \ AS$

avg_stay_days

FROM hospital_data

GROUP BY department;

9. Identify the Department with the Lowest Number of Patients \circ

Find the department with the least number of patients.

Answer

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

Answer

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

SELECT TO_CHAR(admission_date, 'Month') AS month,

ROUND(SUM(medical_expenses), 2) AS total_expenses

FROM hospital_data

GROUP BY TO_CHAR(admission_date, 'Month'), EXTRACT(MONTH FROM admission_date)

ORDER BY EXTRACT(MONTH FROM admission_date);

Note: A minimum of 6 queries must be correct to qualify for the certificate, only 1 Attempt Available.

Complete the assignment and upload it using the provided Google Form. Our A.I. system will review it within few seconds and then you will be able to download your certificate. For more details or support, you can raise a query at -info@satishdhawale.com

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