30 Days SQL Micro Course Certificate Assignment

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**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.
  + SELECT SUM(Patients\_Count) AS Total\_Patients
  + FROM Hospital\_Data;
  + Average Number of Doctors per Hospital Retrieve the average count of doctors available in each hospital.
  + SELECT Hospital\_Name,
  + AVG(Doctors\_Count) AS Avg\_Doctors\_Per\_Hospital
  + FROM Hospital\_Data
  + GROUP BY Hospital\_Name;
  + Top 3 Departments with the Highest Number of Patients Find the top 3 hospital departments that have the 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;
  + Hospital with the Maximum Medical Expenses Identify the hospital that recorded the highest 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;
  + Daily Average Medical Expenses Calculate the average medical expenses per day for each hospital.
  + SELECT Hospital\_Name,
  + AVG(Medical\_Expenses) AS Avg\_Daily\_Expenses
  + FROM Hospital\_Data
  + GROUP BY Hospital\_Name;
  + Longest Hospital Stay Find the patient with the longest stay by calculating the difference between Discharge Date and Admission Date.
  + SELECT Hospital\_Name,
  + Department,
  + DATEDIFF(Discharge\_Date, Admission\_Date) AS Stay\_Duration
  + FROM Hospital\_Data
  + ORDER BY Stay\_Duration DESC
  + LIMIT 1;
  + Total Patients Treated Per City Count the total number of patients treated in each city.
  + SELECT Location AS City,
  + SUM(Patients\_Count) AS Total\_Patients
  + FROM Hospital\_Data
  + GROUP BY Location;
  + Average Length of Stay Per Department Calculate the average number of days patients spend in each department.
  + SELECT Department,
  + AVG(DATEDIFF(Discharge\_Date, Admission\_Date)) AS Avg\_Stay\_Days
  + FROM Hospital\_Data
  + GROUP BY Department;
  + Identify the Department with the Lowest Number of Patients Find the department with the least number of patients.
  + SELECT Department,
  + SUM(Patients\_Count) AS Total\_Patients
  + FROM Hospital\_Data
  + GROUP BY Department
  + ORDER BY Total\_Patients ASC
  + LIMIT 1;
  + Monthly Medical Expenses Report
  + Group the data by month and calculate the total medical expenses for each month.

SELECT

MONTHNAME(STR\_TO\_DATE(Admission\_Date, '%d-%m-%Y')) AS Month\_Name,

SUM(Medical\_Expenses) AS Total\_Expenses

FROM Hospital\_Data

GROUP BY Month\_Name

ORDER BY STR\_TO\_DATE(CONCAT('01-', Month\_Name, '-2023'), '%d-%M-%Y');