

### 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 30Day 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.

1. Total Number of Patients.

```
select count(*) total_patients from hospital_data;
```

2. Average Number of Doctors per Hospital .

```
select hospital, avg(doctors) as avg_dr from hospital_data
```

group by Hospital ;

3. Top 3 Departments with the Highest Number of Patients . select department , sum(patients) as patients from hospital\_data group by department order by patients desc limit 3;

4. Hospital with the Maximum Medical Expenses .

```
select hospital, sum(medical_expenses) as medical_expenses
```

from hospital\_data group by hospital order by hospital desc limit 1;

5. Daily Average Medical Expenses .

```
SELECT Admission_Date AS Date, AVG(Medical_Expenses) AS Daily_Average_Medical_Expenses
```

```
FROM hospital_data GROUP BY Admission_Date ORDER BY Admission_Date;
```

6. Longest Hospital Stay .

7. Total Patients Treated Per City

```
select location, count(patients) as patients from  
hospital_data group by location;
```

8. Average Length of Stay Per Department

```
SELECT Department, AVG(DATEDIFF(Discharge_Date, Admission _Date)) AS Avg_Length_of_Stay
```

```
FROM hospital_data GROUP BY DepartmentORDER BY Avg_Length_of_Stay DESC;
```

9. Identify the Department with the Lowest Number of Patients

```
SELECT Department, SUM(Patients) AS Total_Patients FROM hospital_data GROUP BY Department
```

```
ORDER BY Total_Patients ASC LIMIT 1;
```

10. Monthly Medical Expenses Report .