30 Days SQL Micro Course Assignment Answers:

- 1. Total Number of Patients
- Write an SQL query to find the total number of patients across all hospitals.

#Sol.

SELECT SUM(patients_count) AS total_patients_across_hospitals FROM hospital_data;

- 2. Average Number of Doctors per Hospital
- Retrieve the average count of doctors available in each hospital.

#Sol.

SELECT SUM(doctors_count)/COUNT(DISTINCT(hospital_name)) AS average doctors per hospital FROM hospital data;

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

#Sol.

SELECT department, SUM(patients_count) AS total_patients_in_department FROM hospital_data GROUP BY department ORDER BY total_patients_in_department DESC LIMIT 3;

- 4. Hospital with the Maximum Medical Expenses
- Identify the hospital that recorded the highest medical expenses.

#Sol.

SELECT * FROM hospital_data ORDER BY medical_expenses DESC LIMIT 1;

- 5. Daily Average Medical Expenses
- Calculate the average medical expenses per day for each hospital.

#Sol.

SELECT hospital_name, AVG(medical_expenses/(discharge_date-admission_date)) FROM hospital_data GROUP BY hospital_name;

6. Longest Hospital Stay

• Find the patient with the longest stay by calculating the difference between

#Sol.

SELECT hospital_name, location, department, discharge_date-admission_date AS stay_period FROM hospital_data ORDER BY stay_period DESC LIMIT 1;

- 7. Total Patients Treated Per City
- Count the total number of patients treated in each city.

#Sol.

SELECT location, SUM(patients_count) AS city_wise_patients_treated FROM hospital_data GROUP BY location;

- 8. Average Length of Stay Per Department
- Calculate the average number of days patients spend in each department.

#Sol.

SELECT department, AVG(discharge_date-admission_date) AS average_stay_length FROM hospital_data GROUP BY department;

- 9. Identify the Department with the Lowest Number of Patients
- Find the department with the least number of patients.

#Sol.

SELECT department, SUM(patients_count) AS department_wise_patients FROM hospital data GROUP BY department ORDER BY department wise patients LIMIT 1;

- 10. Monthly Medical Expenses Report
- Group the data by month and calculate the total medical expenses for each month.

#Sol.

SELECT EXTRACT(MONTH FROM discharge_date) AS months, SUM(medical_expenses) FROM hospital_data GROUP BY months ORDER BY months;