

30 Days SQL Micro Course Answers PDF

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;
```

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;
```

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;
```

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;
```

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;

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;

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;

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;

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;
```

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;
```
