

30 Days SQL Micro Course Answer PDF

1.Total Number of Patients

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

ANSWERS

```
SELECT SUM(patients_count)
FROM hospital;
```

2.Average Number of Doctors per Hospital

Retrieve the average count of doctors available in each hospital.

ANSWERS

```
SELECT hospital_name, AVG(doctors_count)
FROM hospital
GROUP BY hospital_name;
```

3.Top Departments with the Highest Number of Patients

Find the top 3 hospital departments that have the highest number of patients.

ANSWERS

```
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.

ANSWERS

```
SELECT hospital_name,medical_expenses AS Highest_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.

ANSWERS

```
SELECT hospital_name,SUM(Medical_Expenses) /
SUM(discharge_date+admission_date) AS AVG_Expense_per_day
FROM hospital
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.

ANSWERS

```
SELECT *,discharge_date - admission_date AS Stay_Duration
FROM hospital
ORDER BY Stay_Duration DESC limit 1;
```

7.Total Patients Treated Per City

Count the total number of patients treated in each city.

ANSWERS

30 Days SQL Micro Course Answer PDF

```
SELECT location,SUM(patients_count)
FROM hospital
GROUP BY location;
```

8.Average Length of Stay Per Department

Calculate the average number of days patients spend in each department.

ANSWERS

```
SELECT department,AVG(discharge_date + admission_date) AS Days_Spend
FROM hospital
GROUP BY department;
```

9.Identify the Department with the Lowest Number of Patients

Find the department with the least number of patients.

ANSWERS

```
SELECT department,patients_count AS Least_patients
FROM hospital
GROUP BY department,patients_count
ORDER BY patients_count ASC limit 1;
```

10.Monthly Medical Expenses Report

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

ANSWERS

```
SELECT date_format(admission_date,'%y-%m') AS Month_data,
SUM(Medical_Expenses) AS Total_Medical_Expenses
FROM hospital
GROUP BY month_data
ORDER BY month_data;
```
