# **30 Days SQL Micro Course Answer PDF**

### 1. Total Number of Patients

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

### **Answer:**

Select sum ("patients count") AS total\_patients From Hospital;

## 2. Average Number of Doctors per Hospital

o Retrieve the average count of doctors available in each hospital.

### Answer:

Select "Hospital name", Avg ("Doctors count") AS Avg doctors

From Hospital

Group by" Hospital name";

### 3. Top 3 Departments with the Highest Number of Patients

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

### **Answer:**

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

o Identify the hospital that recorded the highest medical expenses.

### Answer:

Select "Hospital Name", "Medical Expenses"

From Hospital

Order by "Medical Expenses" desc limit 1;

### 5. Daily Average Medical Expenses

o Calculate the average medical expenses per day for each hospital.

#### Answer:

```
Select "Hospital name", Round (Avg ("Medical Expenses"/(date_part ('day', To_date ("Discharge Date", 'DD-MM-YYYY')-To_date ("Admission date", 'DD-MM-YYYY')),1)),2)AS Average_expense_per_day
```

From Hospital

Group by "Hospital name";

### 6. Longest Hospital Stay

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

Discharge Date and Admission Date.

#### Answer:

```
Select "Hospital Name", "Admission Date", "Discharge Date",
```

DATE\_PART('day', TO\_DATE("Discharge Date", 'DD-MM-YYYY') - TO\_DATE("Admission Date", 'DD-MM-YYYY')) AS stay duration

From Hospital

Order by stay duration desc limit 1;

### 7. Total Patients Treated Per City

o Count the total number of patients treated in each city.

### Answer:

Select "location", sum ("patients count") AS total\_patients

From Hospital

Group by "location"

Order by total\_patients desc;

## 8. Average Length of Stay Per Department

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

#### Answer:

Select "Department", Round(AVG(Date\_Part('day', TO\_Date("Discharge Date", 'DD-MM-YYYY')) - TO\_Date("Admission Date", 'DD-MM-YYYY'))), 2) AS avg\_stay\_days

From hospital

Group by Department

Order by avg stay days desc;

# 9. Identify the Department with the Lowest Number of Patients

o Find the department with the least number of patients.

### **Answer:**

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**

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

### **Answer:**

```
SELECT TO_CHAR (TO_Date("Admission Date", 'DD-MM-YYYY'), 'YYYY-MM') AS month,

SUM("Medical Expenses") AS total_expenses

From Hospital

GROUP BY TO_CHAR(TO_DATE("Admission Date", 'DD-MM-YYYY'), 'YYYY-MM')

Order by month;
```