

1.Total Number of Patients

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

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

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

Answer:-

Select department, patients_count from hospital

group by department, patients_count

order by patients_count

limit 3 ;

4. Hospital with the Maximum Medical Expenses

Identify the hospital that recorded the highest medical expenses.

Answer:-

select hospital_name ,medical_expenses

from hospital

group by hospital_name, medical_expenses

order by medical_expenses Desc

LIMIt 1;

5. Daily Average Medical Expenses

Calculate the average medical expenses per day for each hospital

Answer:-

```
select
    hospital_name,
    AVG(daily_expenses) AS avg_exp_per_day
from (
    select
        hospital_name, Admission,
        SUM(medical_expenses) AS daily_expenses
    from hospital
    group by hospital_name, Admission
)
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.

Answer:-

```
Select hospital_name,
    admission,
    discharge,
    (discharge-admission) 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.

Answer:-

```
select Distinct location, sum(patients_count) As total_patients
from hospital
```

group by location;

8. Average Length of Stay Per Department

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

Answer:-

Select department,

 AVG(discharge-admission) as avg_day_spend

from hospital

group by department

order by avg_day_spend DESC;

9. Identify the Department with the Lowest Number of Patients

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

Limit 1;

10. Monthly Medical Expenses Report

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

Answer:-

Select

 To_Char(admission,'yyyy-mm')As Month,

 Sum(medical_expenses) As Total_expenses

from Hospital

group by month

order by month;
