

/--ASSIGNMENT QUERRIES--/

--1. Total Number of Patients

--Find the total number of patients across all hospitals.

```
SELECT SUM(patients_count) AS Total_Patients
FROM Hospital_Data ;
```

--2. Average Number of Doctors per Hospital

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

```
SELECT Hospital_Name, AVG (Doctors_count) AS Average_doctors
FROM Hospital_Data
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.

```
SELECT department,Patients_count
FROM Hospital_Data ORDER BY patients_count DESC limit 3;
```

--4. Hospital with the Maximum Medical Expenses

--Identify the hospital that recorded the highest medical expenses.

```
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.

```
SELECT Hospital_Name,Location,AVG(medical_expenses) AS Average_expenses
FROM Hospital_Data
GROUP BY Hospital_name,Location;
```

--6. Longest Hospital Stay

--Find the patient with the longest stay by calculating the difference between Discharge Date and Admission Date.

```
SELECT Hospital_name,Department, Count(admission_date-discharge_date) AS Longest_stay
FROM Hospital_Data
GROUP BY Hospital_name,Department ORDER BY Longest_stay desc limit 1;
```

--7. Total Patients Treated Per City

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

```
SELECT location,Sum(patients_count) AS Total_Patients
FROM Hospital_Data GROUP BY location;
```

--8. Average Length of Stay Per Department

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

```
SELECT Department, AVG(admission_date-discharge_date) AS Days_spend
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.

```
SELECT department,Patients_count FROM Hospital_Data
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.

```
SELECT TO_CHAR (admission_date,'Month'), Sum(medical_expenses) AS Total_expenses
FROM Hospital_Data GROUP BY TO_CHAR (admission_date,'Month');
```