

```
create table Hospital_Data(  
Hospital_Name varchar(50),  
Location varchar(50),  
Department varchar(100),  
Doctors_Count int,  
Patients_Count int,  
Admission_Date DATE,  
Discharge_Date DATE,  
Medical_Expenses numeric(10,2)  
);  
SELECT * FROM Hospital_Data;
```

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

```
SELECT SUM(patients_count) as total_Patients  
FROM Hospital_Data;
```

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

```
select distinct hospital_name,  
AVG(doctors_count) as avg_doctor_count  
from Hospital_Data  
group by hospital_name;
```

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

```
select distinct department,  
max(patients_count) as Total_patients_no  
from Hospital_Data  
group by department limit 3;
```

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

```
select hospital_name,
```

```
sum(Medical_Expenses) as Total_expenditure
from Hospital_Data
group by hospital_name limit 1;
```

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

```
select distinct hospital_name, admission_date, avg(Medical_Expenses) as Avg_Expenditure
from Hospital_Data
group by hospital_name, admission_date
order by admission_date desc;
```

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

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

```
select location, sum(patients_count) as Treted_Patients
from Hospital_Data
group by location;
```

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

```
select department, Discharge_Date, admission_date,
age(Discharge_Date, admission_date) as avg_days_patients_at_dept
from Hospital_Data
group by department, admission_date, Discharge_Date;
```

--Find the department with the least number of patients.

```
select department, min(patients_count) as least_number_of_count
from Hospital_Data
group by department, patients_count
order by patients_count limit 1;
```

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

