```
create database SQL_Projects;
use SQL_Projects;
select * from hospital_data;
##Question 1. Total Number of Patients
select Hospital_Name,sum(Patients_Count) as Total_Patients from hospital_data
group by Hospital Name
order by Total_Patients desc;
##Question 2.Average Number of Doctors per Hospital.
select Hospital_Name, avg(Doctors_count) as Avg_Doctors from hospital_data
group by Hospital_Name
order by Avg_Doctors desc;
##Question 3. Top 3 Departments with the Highest Number of Patients
select Hospital_Name,Department, Patients_count from hospital_data
order by Patients_count desc
limit 3;
##Question 4. Hospital with the Maximum Medical Expenses
select Hospital_Name, max(Medical_Expenses) as Maximum_Medical_expenses from
hospital_data
group by Hospital_Name
order by Maximum_Medical_expenses desc;
```

##Question 5.Daily Average Medical Expenses

```
Hospital_Name,
    SUM(Medical_Expenses) / SUM(DATEDIFF(Discharge_Date, Admission_Date) + 1) AS
Avg_Expense_Per_Day
FROM
    Hospital_Data
GROUP BY
    Hospital_Name;
## Question 6.Find the patient with the longest stay by calculating the difference between
Discharge Date and Admission Date.
SELECT
    DATEDIFF(Discharge_Date, Admission_Date) AS Stay_Duration
FROM
    Hospital_Data
ORDER BY
    Stay_Duration DESC
LIMIT 1;
## Question 7. Count the total number of patients treated in each city.
select distinct Location, count(Patients_count) as Total_Patients from hospital_data
group by Location
order by Total_Patients desc;
## Question 8. Calculate the average number of days patients spend in each department.
SELECT
```

SELECT

```
Department,
    AVG(DATEDIFF(STR_TO_DATE(Discharge_Date, '%d-%m-%Y'),
STR_TO_DATE(Admission_Date, '%d-%m-%Y'))) AS Avg_Days_Stayed
FROM Hospital_Data
GROUP BY Department;
## Question 9. Find the department with the least number of patients.
select Department, Patients_Count from hospital_data
order by Patients_Count limit 1;
## Question 10. Group the data by month and calculate the total medical expenses for each
month.alter
SELECT
    DATE_FORMAT(STR_TO_DATE(Admission_Date, '%d-%m-%Y'), '%Y-%m') AS Month_Year,
    SUM(Medical_Expenses) AS Total_Expenses
FROM Hospital_Data
GROUP BY Month_Year
ORDER BY Month_Year;
```