HOSPITAL DATA SQL QUERIES

```sql
DROP TABLE IF EXISTS Hospital;


CREATE TABLE Hospital(

                Hospital_name VARCHAR (100) NOT NULL,

                Location VARCHAR (50),

                Department VARCHAR (50),

                Doctors_count INT,

                Patients_count INT,

                Addmission_date DATE,

                Discharge_date DATE,

                Medical_expenses NUMERIC(10,2)
);


SELECT * FROM Hospital;


--1.Total Number of Patients
SELECT SUM(Patients_count) AS Total_count_patients
FROM Hospital;


--2.Average Number of Doctors per Hospital
SELECT Hospital_name, AVG(Doctors_count) AS Average_doc
FROM Hospital
GROUP BY hospital_name;
```

```sql
--3.Top 3 Departments with the Highest Number of Patients

SELECT  department, SUM(patients_count)

FROM Hospital

GROUP BY department

ORDER BY SUM(Patients_count) DESC LIMIT 3;




--4.Hospital with the Maximum Medical Expenses

SELECT Hospital_name, SUM(Medical_expenses)

FROM Hospital

GROUP BY Hospital_name

ORDER BY SUM(Medical_expenses) DESC LIMIT 1;




--5.Daily Average Medical Expenses

SELECT Hospital_name, AVG(Medical_expenses) AS AVG_medical_exp

FROM Hospital

GROUP BY hospital_name;




--6.Longest Hospital Stay

SELECT *,

        Discharge_date - Addmission_date AS Duration

FROM Hospital

ORDER BY Duration DESC LIMIT 1;
```

```sql
--7.Total Patients Treated Per City

SELECT Location, SUM(patients_count) AS Total_patients

FROM Hospital

GROUP BY Location;




--8.Average Length of Stay Per Department

SELECT DISTINCT Department,

                AVG(Discharge_date - Addmission_date) AS AVG_stay_period

FROM Hospital

GROUP BY Department

ORDER BY AVG_stay_period DESC;




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

SELECT DISTINCT Department, SUM(Patients_count)

FROM Hospital

GROUP BY Department

ORDER BY SUM(Patients_count) ASC LIMIT 1;




--10. Monthly Medical Expenses Report

SELECT DATE_PART( 'MONTH', Addmission_date) AS Month,

                SUM(Medical_expenses) AS Total_exp

FROM Hospital

GROUP BY Month

ORDER BY Month;
```