```sql
CREATE TABLE hospital (
                hospital_name VARCHAR(100),
                location VARCHAR(70),
                department VARCHAR(70),
                doctors_count INT,
                patients_count INT,
                admission_date DATE,
                discharge_date DATE,
                medical_expenses NUMERIC(10,2)
);


SELECT * FROM hospital;


-- Q1. Total Number of Patients
SELECT SUM(patients_count) AS total_patients
FROM hospital;


-- Q2. Average Number of Doctors per Hospital
SELECT hospital_name,
ROUND(AVG(doctors_count)) AS avg_doctors
FROM hospital
GROUP BY hospital_name, doctors_count
ORDER BY avg_doctors DESC;


-- Q3. Top 3 Departments with the Highest Number of Patients
SELECT department,
SUM(patients_count) AS highest_patients
FROM hospital
GROUP BY department
ORDER BY highest_patients DESC;


-- Q4. Hospital with the Maximum Medical Expenses
SELECT hospital_name,
SUM(medical_expenses) AS total_expenses
```

```
FROM hospital

GROUP BY hospital_name

ORDER BY total_expenses DESC;
```

-- Q5. Daily Average Medical Expenses

```
SELECT hospital_name,

SUM(medical_expenses) / SUM(discharge_date - admission_date) AS day_wise_expenses

FROM hospital

GROUP BY hospital_name

ORDER BY day_wise_expenses DESC;
```

-- Q6. Longest Hospital Stay

```
SELECT hospital_name,

SUM(discharge_date - admission_date) AS total_stay

FROM hospital

GROUP BY hospital_name

ORDER BY total_stay DESC;
```

-- Q7. Total Patients Treated Per City

```
SELECT location,

SUM(patients_count) AS total

FROM hospital

GROUP BY location

ORDER BY total DESC;
```

-- Q8. Average Length of Stay Per Department

```
SELECT department,

ROUND (AVG (discharge_date - admission_date)) AS avg_stay

FROM hospital

GROUP BY department

ORDER BY avg_stay DESC;
```

-- Q9. Identify the 2 Department with the Lowest Number of Patients

```
SELECT department,
```

```sql
SUM (patients_count) AS total_Patients

FROM hospital

GROUP BY department

ORDER BY total_patients

LIMIT 2;
```

-- Q10. Monthly Medical Expenses Report

```sql
SELECT

TO_CHAR(DATE_TRUNC('month', admission_date), 'YYYY-MM') AS month, hospital_name,

SUM(medical_expenses) AS total_expenses

FROM hospital

GROUP BY DATE_TRUNC('month', admission_date), hospital_name

ORDER BY month, total_expenses;
```