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DROP TABLE IF EXISTS Medicine;
CREATE TABLE Medicine(
    Hospital_name VARCHAR(100),
    Location VARCHAR(100),
    Department VARCHAR(100),
    Doctor_count INT,
    Patient_count INT,
    Admission_Date DATE,
    Discharge_date DATE,
    Medical_Expenses NUMERIC(10, 2)
);

SELECT * FROM Medicine;

--QUESTIONS

--Total Number of Patients;
SELECT SUM(Patient_count) FROM Medicine;

--Average Number of Doctors per Hospital

SELECT hospital_name, AVG(doctor_count) AS avg_count_doctors FROM Medicine
GROUP BY hospital_name ;

--TOP 3 Departments with Highest numbers of patients;
SELECT SUM(patient_count), Department FROM Medicine
GROUP BY Department
ORDER BY SUM(patient_count) DESC
LIMIT 3;

--Hospital with Maximum medical expenses;
SELECT hospital_name, SUM(medical_expenses) FROM Medicine
GROUP BY hospital_name
ORDER BY SUM(medical_expenses) DESC
LIMIT 1;

--Daily Average Medical Expenses;
SELECT
    hospital_name,
    AVG(medical_expenses / (discharge_date - admission_date )) AS
avg_expense_per_day
FROM medicine
GROUP BY hospital_name;

--Longest Hospital Stay;
SELECT
    hospital_name, Location, (discharge_date - admission_date ) AS
avg_expense_per_day
FROM medicine
ORDER BY avg_expense_per_day DESC
LIMIT 1;

-- Total patients treated per city;
SELECT location, SUM(patient_count) AS Patient_Total FROM Medicine
GROUP BY location
ORDER BY Patient_total DESC;

--Average length of stay per department
SELECT AVG(discharge_date - admission_date), department FROM Medicine
GROUP BY department;

--Identify the department with the lowest number of patients
SELECT SUM(Patient_count), department FROM Medicine

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GROUP BY Department
ORDER BY SUM(Patient_count) ASC
LIMIT 1;
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--Monthly Medical Expenses report
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SELECT
    EXTRACT(YEAR FROM Discharge_Date) AS Year,
    EXTRACT(MONTH FROM Discharge_Date) AS Month,
    SUM(Medical_Expenses) AS Total_Expenses
FROM Medicine
GROUP BY Year, Month
ORDER BY Year ASC, Month ASC;

SELECT * FROM Medicine;
```