```
CREATE DATABASE hospital;
CREATE TABLE hospitaldata(
               Hospital Name VARCHAR(100),
               LOCATION VARCHAR(50),
               DEPARTMENT VARCHAR(50),
               DOCTORS_COUNT INT,
               PATIENTS_COUNT INT,
               ADMISSION DATE DATE,
               DISCHARGE DATE DATE,
               MEDICAL EEXPENSES NUMERIC(10,2)
)
SELECT * FROM hospitaldata
COPY hospitaldata(
Hospital_Name,Location,Department,Doctors_Count,Patients_Count,Admission_Date,
Discharge_Date,Medical_Expenses
FROM 'D:\Hospital Data.csv'
CSV HEADER
--1. Write an SQL query to find the total number of patients across all hospitals.
SELECT SUM(patients_count) AS total_patient
FROM hospitaldata
--2. Retrieve the average count of doctors available in each hospital.
SELECT AVG(doctors_count) AS avg_doctors_per_hospital
FROM hospitaldata;
--3. Find the top 3 hospital departments that have the highest number of patients.
SELECT department, SUM(patients_count) AS total_patients
FROM HospitalData
GROUP BY department
ORDER BY total patients DESC
LIMIT 3;
--4. Identify the hospital that recorded the highest medical expenses
SELECT hospital name, SUM(medical expenses) AS total expenses
FROM hospitaldata
GROUP BY hospital_name
ORDER BY total_expenses DESC
LIMIT 1;
--5. Calculate the average medical expenses per day for each hospital.
SELECT hospital name, AVG(medical expenses / (discharge date-admission date)) AS
avg expenses per day
FROM hospitaldata
GROUP BY hospital_name;
```

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--7. Count the total number of patients treated in each city SELECT location, COUNT(*) AS Total_Patients FROM hospitaldata GROUP BY location ORDER BY Total_Patients DESC;

--8. Calculate the average number of days patients spend in each department.

SELECT "department",

AVG("discharge_date" - "admission_date") AS Avg_Stay_Duration
FROM hospitaldata
GROUP BY "department"

ORDER BY Avg_Stay_Duration DESC;

--9. Find the department with the least number of patients. SELECT "department", COUNT(*) AS Patient_Count FROM hospitaldata GROUP BY "department" ORDER BY Patient_Count ASC LIMIT 1;

--10. Group the data by month and calculate the total medical expenses for each month

SELECT

TO_CHAR("admission_date", 'YYYY-MM') AS Month, SUM("medical_expenses") AS Total_Medical_Expenses FROM hospitaldata GROUP BY Month ORDER BY Month;