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-- Healthcare SQL Analysis
drop table if exists hospital;
create table hospital(
      Hospital Name
                          varchar(40),
      Location State
                          varchar(40),
      Department varchar(40),
      Doctors Count
                          int.
      Patients Count
                          int,
      Admission Date
                          date,
      Discharge_Date
                          date,
      Medical_Expenses decimal(10,2)
);
select * from hospital;
-- Queries :-
/*1. Total Number of Patients
o Write an SQL query to find the total number of patients across all hospitals. */
select sum(patients count)as total number of patients
from hospital;
/*2. Average Number of Doctors per Hospital
o Retrieve the average count of doctors available in each hospital.*/
select hospital_name, avg(doctors_count)as avg_number_of_doctors
from hospital
group by hospital_name;
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/*3. Top 3 Departments with the Highest Number of Patients

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o Find the top 3 hospital departments that have the highest number of patients. */
select department, sum(patients count)as number of patients from hospital
group by department
order by sum(patients count) desc limit 3;
/*4. Hospital with the Maximum Medical Expenses
o Identify the hospital that recorded the highest medical expenses. */
select hospital name, sum(medical expenses)as highest medical bill from hospital
group by hospital name
order by highest medical bill desc limit 1;
/*5. Daily Average Medical Expenses
o Calculate the average medical expenses per day for each hospital. */
select hospital name, avg(medical expenses/(discharge date - admission date+1))
as Avg_medical_expense
from hospital
group by hospital name;
/*6. Longest Hospital Stay
o Find the patient with the longest stay by calculating the difference between
Discharge Date and Admission Date. */
select discharge date-admission date+1 as Stay Period
from hospital
order by stay period desc
limit 1;
/*7. Total Patients Treated Per City
o Count the total number of patients treated in each city. */
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select location_state as City , sum(patients_count)as Patients_treated_in_this_city from hospital group by location_state;
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/*8. Average Length of Stay Per Department

o Calculate the average number of days patients spend in each department. */
select department, avg(discharge_date-admission_date+1)as Stay_length
from hospital
group by department;

/*9. Identify the Department with the Lowest Number of Patients o Find the department with the least number of patients. */
select department, sum(patients_count)as Patients_admitted from hospital
group by department
order by Patients_admitted ASC limit 1;

/*10. Monthly Medical Expenses Report

 Group the data by month and calculate the total medical expenses for each month.*/

select to_char(admission_date,'YYYY-MM')as Months, sum(medical_expenses)AS Total_expense

from hospital

group by Months

order by Months ASC;