## Hospital data assignment

- 1) Total Number of patients
  Find the total number of patients across hospitals
  SELECT SUM(patients\_count) as total\_patients
  FROM hospital\_data;
- 2) Average number of doctors per hospital
  Retrieve the average count of doctors available in each hospital
  SELECT hospital\_name, AVG(doctors\_count) as avg\_doctors
  FROM hospital\_data
  GROUP BY hospital\_name;
- 3) Top 3 departments with the highest number of patients
  Find the top 3 hospital with the highest number of patients
  SELECT hospital\_name, sum(patients\_count) as total\_patients
  FROM hospital\_data
  GROUP BY hospital\_name
  ORDER BY total\_patients DESC
  LIMIT 3;
- 4) Hospital with the maximum medical expenses

  Identify the hospital that recorded the highest medical expenses

  SELECT hospital\_name, SUM(medical\_expenses) as total\_expenses

  FROM hospital\_data

  GROUP BY hospital\_name

  ORDER BY total\_expenses DESC

  LIMIT 1;
- 5) Daily average medical expensesCalculate the average medical expenses per day for each hospital

```
SELECT hospital_name,
   AVG(medical_expenses / (Greatest((discharge_date - admission_date) + 1))) as
avg_expenses_per_day
FROM hospital_data
GROUP BY hospital name;
6) Longest hospital_stay
Find the patient with the longest stay by calculating the difference between discharge date and
admission date
SELECT *,
   (discharge_date - admission_date) as stay_duration
FROM hospital_data
ORDER BY stay_duration DESC
LIMIT 1;
7) Total patients treated per city
Count the total number of patients treated in each city
SELECT location as city, SUM(patients_count) as total_patients
FROM hospital_data
GROUP BY location
ORDER BY total patients DESC;
8) Average length of stay per department
Calculate the average number of days patients spend in each department
SELECT department,
  AVG(discharge_date - admission_date) as avg_stay_days
FROM hospital_data
GROUP BY department
ORDER BY avg_stay_days DESC;
9) Identify the department with the lowest number of patients
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Find the department with the least number of patients

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SELECT department,

SUM(patients_count) as total_patients

FROM hospital_data

GROUP BY department

ORDER BY total_patients 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, 'MM') as month,

SUM(medical_expenses) as total_medical_expenses

FROM hospital_data

GROUP BY TO_CHAR(admission_date, 'MM')
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ORDER BY month;