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CREATE DATABASE HOSPITAL

SELECT * FROM [Updated Hospital Dataset_CSV]

--Department with the highest admissions in the last 6 months

SELECT Department, count(*) AS Total_Admissions
FROM [Updated Hospital Dataset_CSV]
WHERE Admission_Date >='2024-05-01'
GROUP BY Department
ORDER BY Total_Admissions DESC

--View

CREATE VIEW TotalAdmissions_Per_Department AS
SELECT Department, count(*) AS Total_Admissions
FROM [Updated Hospital Dataset_CSV]
WHERE Admission_Date >='2024-05-01'
GROUP BY Department

--Average Length of stay for each Department

SELECT Department,
AVG(Length_of_Stay) AS Average_Length_of_Stay
FROM [Updated Hospital Dataset_CSV]
GROUP BY Department

--View
```

```
CREATE VIEW AverageLengthOfStay_By_Department AS
SELECT Department,
AVG(Length_of_Stay) AS Average_Length_of_Stay
FROM [Updated Hospital Dataset_CSV]
GROUP BY Department

--Checking for seasonal Trends in Admissions

SELECT DATENAME(MONTH, Admission_Date) AS Month_Name,
MONTH(Admission_Date) AS Month_Number,
COUNT(*) AS Total_Admissions
FROM [Updated Hospital Dataset_CSV]
GROUP BY DATENAME(Month, Admission_Date),MONTH(Admission_Date)
ORDER BY Month_Number

--View

CREATE VIEW TotalNoOfAdmissions_By_Month AS
SELECT DATENAME(MONTH, Admission_Date) AS Month_Name,
MONTH(Admission_Date) AS Month_Number,
COUNT(*) AS Total_Admissions
FROM [Updated Hospital Dataset_CSV]
GROUP BY DATENAME(Month, Admission_Date),MONTH(Admission_Date)



SELECT Department,Diagnosis, COUNT(*) AS Diagnosis_Count
FROM [Updated Hospital Dataset_CSV]
GROUP BY Department, Diagnosis
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ORDER BY Department,Diagnosis_Count DESC

--Which Diagnosis is most common in each Department

WITH RankedDiagnoses AS (SELECT Department,Diagnosis,COUNT(*) AS Diagnosis_Count,
    ROW_NUMBER() OVER (PARTITION BY Department ORDER BY COUNT(*) DESC) AS RowNum
FROM [Updated Hospital Dataset_CSV]
GROUP BY Department, Diagnosis)
SELECT Department,Diagnosis,Diagnosis_Count
FROM RankedDiagnoses
WHERE RowNum = 1
ORDER BY Department;
```