

11/8/2025

# DAY 6

## #SQLWithIDC

[ 21 DAYS SQL CHALLENGE ]



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# PRACTICE QUESTION

1. Count the number of patients by each service.

```
SELECT service, COUNT(patient_id) AS  
total_patients FROM patients GROUP  
BY service;
```

output →

service	total_patients
ICU	241
general_medicine	242
surgery	254
emergency	263

2. Calculate the average age of patients grouped by service.

```
SELECT service, ROUND(AVG(age),2) AS  
avg_age FROM patients GROUP BY  
service;
```

↓ output

service	avg_age
ICU	44.22
general_medicine	46.19
surgery	45.59
emergency	45.33

3. Find the total number of staff members per role.

```
SELECT role, COUNT(staff_id) AS total_staff  
FROM staff GROUP BY role;
```

↓ output

role	total_staff
doctor	18
nursing_assistant	32
nurse	76

## DAILY CHALLENGE – DAY 6

- For each hospital service, calculate the total number of patients admitted, total patients\_refused and the admission rate (percentage of requests that were admitted), Order by admission rate descending.

```
SELECT service, SUM(patients_admitted) AS total_admitted_patients, SUM(patients_refused) AS total_refused_patients,  
CONCAT_WS(' ', ROUND((SUM(patients_admitted) / SUM(patients_request) * 100),2), '%') AS admission_rate  
FROM services_weekly  
GROUP BY service ORDER BY admission_rate DESC;
```



```
146  
147 -- Daily Challenge - Day 6  
148 -- For each hospital service, calculate the total number of patients admitted,  
149 -- total patients_refused and the admission rate (percentage of requests that were admitted)  
150 -- Order by admission rate descending.  
151  
152 • SELECT service, SUM(patients_admitted) AS total_admitted_patients,  
153 SUM(patients_refused) AS total_refused_patients,  
154 CONCAT_WS(' ',ROUND((SUM(patients_admitted) / SUM(patients_request) * 100),2), '%') AS admission_rate FROM services_weekly  
155 GROUP BY service ORDER BY admission_rate DESC;  
156  
157
```

Result Grid				
	service	total_admitted_patients	total_refused_patients	admission_rate
▶	ICU	648	141	82.13 %
	surgery	1686	555	75.23 %
	general_medicine	2332	1938	54.61 %
	emergency	1185	5008	19.13 %