

A dark blue vertical bar is positioned on the left side of the page. A blue arrow-shaped banner points to the right, containing the date. In the bottom-left corner, there are several thin, curved lines in shades of blue and grey, resembling stylized grass or reeds.

11/8/2025

DAY 6

#SQLWithIDC

[21 DAYS SQL CHALLENGE]

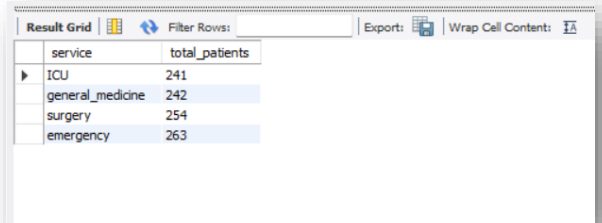
- Submitted By Divyanshi Doser
[INDIAN DATA CLUB]

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



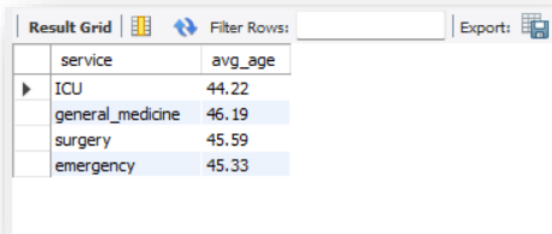
The screenshot shows a 'Result Grid' window with a table containing patient counts by service. The table has two columns: 'service' and 'total_patients'. The data rows are ICU (241), general_medicine (242), surgery (254), and emergency (263). The window also includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' checkbox.

| 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



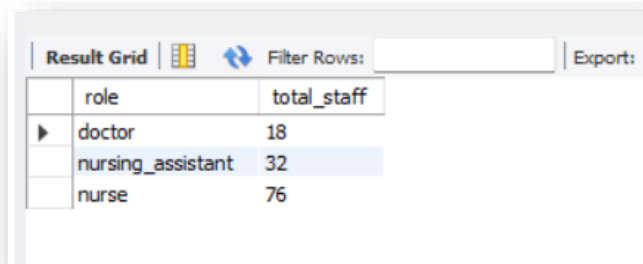
The screenshot shows a 'Result Grid' window with a table containing average patient ages by service. The table has two columns: 'service' and 'avg_age'. The data rows are ICU (44.22), general_medicine (46.19), surgery (45.59), and emergency (45.33). The window also includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' checkbox.

| 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



The screenshot shows a 'Result Grid' window with a table containing the total number of staff members by role. The table has two columns: 'role' and 'total_staff'. The data rows are doctor (18), nursing_assistant (32), and nurse (76). The window also includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' checkbox.

| role | total_staff |
|-------------------|-------------|
| doctor | 18 |
| nursing_assistant | 32 |
| nurse | 76 |

DAILY CHALLENGE – DAY 6

1. 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 | | | |
|-----------------------------------|-------------------------|------------------------|----------------|
| Filter Rows: <input type="text"/> | | | |
| Export: Wrap Cell Content: | | | |
| 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 % |