



9/11/2025

DAY 7

#SQLWithIDC

[21 DAYS SQL CHALLENGE]



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PRACTICE QUESTIONS

1. Find services that have admitted more than 500 patients in total.

```
SELECT service,  
SUM(patients_admitted) AS  
total_patients_admitted FROM  
services_weekly GROUP BY service  
HAVING total_patients_admitted > 500;
```

output

```
160 -- Practice Questions Day 7  
161 -- 1.Find services that have admitted more than 500 patients in total.  
162 • SELECT service, SUM(patients_admitted) AS total_patients_admitted FROM services_weekly  
163 GROUP BY service  
164 HAVING total_patients_admitted > 500;
```

| service | total_patients_admitted |
|------------------|-------------------------|
| emergency | 1185 |
| surgery | 1686 |
| general_medicine | 2332 |
| ICU | 648 |

2. Show services where average patient satisfaction is below 75.

```
SELECT service,  
AVG(patients_satisfaction) AS  
avg_satisfaction_score FROM  
services_weekly GROUP BY service  
HAVING avg_satisfaction_score < 75;
```

output

```
166 -- 2.Show services where average patient satisfaction is below 75.  
167 • SELECT service, AVG(patients_satisfaction) AS avg_satisfaction_score FROM services_weekly  
168 GROUP BY service HAVING avg_satisfaction_score < 75;  
169
```

| service | avg_satisfaction_score |
|---------|------------------------|
|---------|------------------------|

3. List weeks where total staff presence across all services was less than 50.

```
SELECT week, SUM(present) AS  
total_staff_present FROM staff_schedule  
GROUP BY week HAVING total_staff_present <  
50;
```

output

```
169  
170 -- 3.List weeks where total staff presence across all services was less than 50.  
171 • SELECT week, SUM(present) AS total_staff_present FROM staff_schedule  
172 GROUP BY week HAVING total_staff_present < 50;  
173
```

| week | total_staff_present |
|------|---------------------|
| 3 | 0 |
| 6 | 0 |
| 9 | 0 |
| 12 | 0 |
| 15 | 0 |
| 18 | 0 |
| 21 | 0 |
| 24 | 0 |
| 27 | 0 |
| 30 | 0 |
| 33 | 0 |
| 36 | 0 |
| 39 | 0 |
| 42 | 0 |
| 45 | 0 |
| 48 | 0 |
| 51 | 0 |

DAILY CHALLENGE – DAY 7

1. Identify services that refused more than 100 patients in total and had an average patient satisfaction below 80. Show service name, total refused, and average satisfaction.

```
SELECT service, SUM(patients_refused) AS total_refused, ROUND(AVG(patients_satisfaction), 2 )  
AS avg_satisfaction FROM services_weekly GROUP BY service HAVING avg_satisfaction < 80  
AND total_refused > 100;
```



The screenshot shows a SQL IDE window with a toolbar at the top. The query editor contains the following SQL code:

```
173  
174 -- Daily Challenge - Day 7  
175 -- Identify services that refused more than 100 patients in total and had an average patient satisfaction below 80.  
176 -- Show service name, total refused, and average satisfaction.  
177 • SELECT service, SUM(patients_refused) AS total_refused, ROUND(AVG(patients_satisfaction),2) AS avg_satisfaction  
178 FROM services_weekly  
179 GROUP BY service HAVING avg_satisfaction < 80 AND total_refused > 100;
```

Below the query editor is a 'Result Grid' section. It includes a 'Filter Rows' input field, an 'Exports' button, and a 'Wrap Cell Contents' checkbox. The results are displayed in a table with three columns: 'service', 'total_refused', and 'avg_satisfaction'.

| service | total_refused | avg_satisfaction |
|-----------|---------------|------------------|
| emergency | 5008 | 77.88 |
| surgery | 555 | 79.27 |