

# 21 DAYS SQL CHALLENGE

CHALLENGE STARTS FROM

3RD NOVEMBER 2025

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#SQLWithIDC

## Day 7 (10/11): HAVING Clause

### 🎯 Objective

To learn how to filter grouped results using the HAVING clause, especially when working with aggregate functions like SUM(), COUNT(), or AVG()

### 🔍 Topics Covered

- Difference between WHERE and HAVING
- Using GROUP BY with aggregate functions
- Applying HAVING to filter aggregate results
- Combining GROUP BY, HAVING, and ORDER BY in one query

## HAVING Clause

The HAVING clause is used to **filter groups** of data created by the GROUP BY clause. It is like **WHERE**, but HAVING is used **after aggregation** (e.g., SUM, AVG, COUNT) to filter group results.

### □ Why HAVING is Needed?

- WHERE filters **individual rows** (before grouping)
- HAVING filters **grouped results** (after GROUP BY)

### Syntax :-

```
SELECT column1, AGG_FUNC(column2)
FROM table_name
GROUP BY column1
HAVING AGG_FUNC(column2) condition;
```



## SQL Beginner to Advanced For Data...

★ 4.9 (1308) 👤 9032 Enrolled

Beginners to Advanced SQL



- ▶ Data with Baraa **SQL HAVING Clause - SQL Tutorial #30**
- ▶ Neso Academy **GROUP BY and HAVING Clause in SQL**
- ▶ Amigoscode **PostgreSQL: Group By Having | Course | 2019**

You can watch this topic from 46:24 in the video 📌

### SQL Tutorial For Beginners | MySQL Tutorial

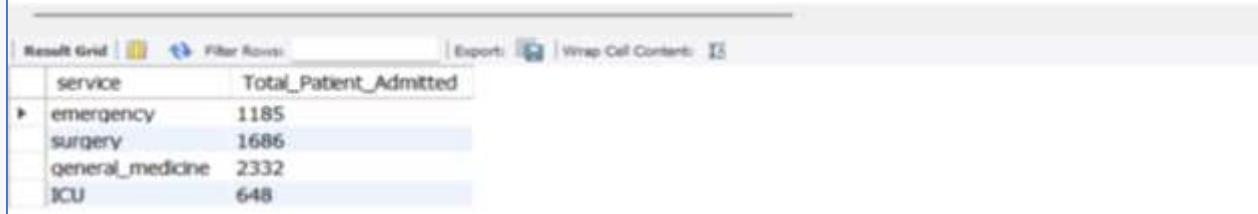
Beginners SQL tutorial with code and exercises. 📌 Effortlessly set up MySQL, the open-source relational database, as we guide you through the installation process. 📌 Master SQL basics with essential clauses like SELECT, WHERE, DISTINCT, LIKE, ORDER BY, LIMIT, OFFSET, and BETWEEN. 📌 Elevate your skills with

▶ <https://www.youtube.com/watch?v=Rm0xH2Vpf0&t=5s>



## Practice Questions:

```
1  -- Find services that have admitted more than 500 patients in total.
2  * SELECT
3      service,
4      SUM(patients_admitted) AS Total_Patient_Admitted
5  FROM services_weekly
6  GROUP BY service
7  HAVING Total_Patient_Admitted > 500 ;
```







Result Grid | Filter Rows: | Export: | Wrap Cell Contents: |

	service	Total_Patient_Admitted
▶	emergency	1185
	surgery	1686
	general_medicine	2332
	ICU	648

- **SELECT** → Picks the service column and calculates the total patients admitted using SUM().
- **FROM** → Data is taken from the services\_weekly table.
- **GROUP BY** → Groups the data by each service so we can apply aggregate calculations.
- **HAVING** → Filters the grouped results and shows only those services where total admitted patients are more than 500.

## Practice Questions:

```
9  -- Show services where average patient satisfaction is below 75.
10 • SELECT
11     service,
12     AVG(patient_satisfaction) AS Avg_Patient_Satisfaction
13 FROM services_weekly
14 GROUP BY service
15 HAVING Avg_Patient_Satisfaction < 75;
```

Result Grid		 Filter Rows: <input type="text"/>	Exports: 	Wrap Cell Content: 
	service	Avg_Patient_Satisfaction		

- **SELECT** → Retrieves the service name and calculates the average satisfaction score using AVG().
- **FROM** → Uses data from the services\_weekly table.
- **GROUP BY** → Groups the rows by each service so that the average can be computed per group.
- **HAVING** → Filters the grouped results and shows only services where the average satisfaction score is less than 75.



## Practice Questions:

```
17  -- List weeks where total staff presence across all services was less than 50.
18 • SELECT
19     week,
20     SUM(present) AS Total_Staff_Present
21 FROM staff_schedule
22 GROUP BY week
23 HAVING Total_Staff_Present < 50;
```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content: |

	week	Total_Staff_Present
▶	3	0
	6	0
	9	0
	12	0
	15	0
	18	0
	21	0

- **SELECT** → Retrieves the week and calculates the total staff present using SUM().
- **FROM** → Reads data from the staff\_schedule table.
- **GROUP BY** → Groups all rows by week so that staff from all services are added together.
- **HAVING** → Filters only those weeks where total staff presence is less than 50.

## Daily Challenge:

```
25  -- Identify services that refused more than 100 patients in total
26  -- and had an average patient satisfaction below 80.
27  -- Show service name, total refused, and average satisfaction
28 • SELECT
29      service,
30      SUM(patients_refused) AS Total_Patient_Refused,
31      ROUND(AVG(patient_satisfaction),2) AS Average_Satisfaction
32  FROM services_weekly
33  GROUP BY service
34  HAVING Total_Patient_Refused > 100 AND
35      Average_Satisfaction < 80;
```

Result Grid	Filter Rows:	Exports	Wrap Cell Content:
service	Total_Patient_Refused	Average_Satisfaction	
emergency	5008	77.88	
surgery	555	79.27	

**SELECT** → Retrieves each service name, calculates the total patients refused using SUM(), and computes the average patient satisfaction using AVG() (rounded to 2 decimals).

**FROM** → Reads data from the services\_weekly table.

**GROUP BY** → Groups the data by each service so totals and averages are calculated per service.

**HAVING** → Filters only those services where total patients refused are greater than 100 and the average satisfaction is below 80.