

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;
```

III Resources:



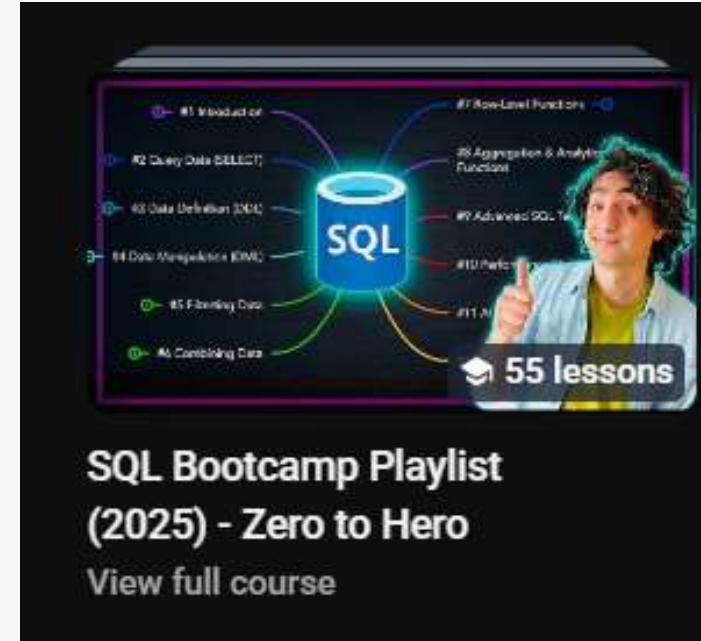
₹1,500

SQL Beginner to Advanced For Data...

4.9 (1308) 9032 Enrolled

Beginners to Advanced SQL

This block displays a course thumbnail for "SQL Beginner to Advanced For Data Science". It features three men's faces in a collage, the title "SQL THE SALT OF DATA SCIENCE", and a price of ₹1,500. Below the thumbnail is a course summary with a rating of 4.9 and 1308 reviews, 9032 enrolled students, and a "Beginners to Advanced SQL" tag.



SQL Bootcamp Playlist (2025) - Zero to Hero

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55 lessons

This block displays a course thumbnail for "SQL Bootcamp Playlist (2025) - Zero to Hero". It features a man pointing at a central "SQL" cylinder, a list of 11 lessons on the left, and a "55 lessons" badge. Below the thumbnail is the course title and a "View full course" button.

- ▶ 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=Rm0xH2VpfI0&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 Content:
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:	Export:	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: _____ | Export:  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: _____ | Export: | 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.