

SQL Introduction

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SQL HAVING Clause

In this tutorial, we'll learn about the HAVING clause in SQL and how to use them with examples.

The `HAVING` clause in SQL is used if we need to filter the result set based on aggregate functions such as `MIN()` and `MAX()`, `SUM()` and `AVG()` and `COUNT()`.

```
SELECT COUNT(customer_id), country
FROM Customers
GROUP BY country
HAVING COUNT(customer_id) > 1;
```

Here, the SQL command:

1. counts the number of rows by grouping them by `country`
2. returns the result set if their **count** is greater than 1.



Note: The `HAVING` clause was introduced because the `WHERE` clause does not support aggregate functions. Also, `GROUP BY` must be used before the `HAVING` clause. To learn more, visit [SQL GROUP BY](#).

SQL HAVING Vs WHERE

HAVING Clause	WHERE Clause
The <code>HAVING</code> clause checks the condition on a group of rows .	The <code>WHERE</code> clause checks the condition on each individual row .
The <code>HAVING</code> is used with aggregate functions.	The <code>WHERE</code> clause cannot be used with aggregate functions.
The <code>HAVING</code> clause is executed after the <code>GROUP BY</code> clause.	The <code>WHERE</code> clause is executed before the <code>GROUP BY</code> clause.

Let's take a look at an example,

If we want to select rows where the value of the `amount` column in the `Orders` table is less than **500**, we can write,

```
SELECT customer_id, amount
FROM Orders
WHERE amount < 500;
```

Now, if we want to select rows and calculate sum off each amount, we can write,

```
SELECT customer_id, SUM(amount) AS total
FROM Orders
GROUP BY customer_id;
```

Thats it.

But if we need to select rows if the sum of amounts is less than 500 for any customer, we need to write,

```
SELECT customer_id, SUM(amount) AS total
FROM Orders
GROUP BY customer_id
HAVING SUM(amount) < 500;
```

Previous Tutorial:

SQL CASE

Next Tutorial:

SQL EXISTS

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SQL COUNT()