# SQL HAVING Clause

## The SQL HAVING Clause

The `HAVING` clause was added to SQL because the `WHERE` keyword cannot be used with aggregate functions.

## HAVING Syntax

```
SELECT column_name(s)
FROM table_name
WHERE condition
GROUP BY column_name(s)
HAVING condition
ORDER BY column_name(s);
```

## Demo Database

Below is a selection from the "Customers" table in the Northwind sample database:

| CustomerID | CustomerName | ContactName | Address | City | Postal |
| --- | --- | --- | --- | --- | --- |

| 1 | Alfreds Futterkiste | Maria Anders | Obere Str. 57 | Berlin | 12209 |
| 2 | Ana Trujillo Emparedados y helados | Ana Trujillo | Avda. de la Constitución 2222 | México D.F. | 05021 |
| 3 | Antonio Moreno Taquería | Antonio Moreno | Mataderos 2312 | México D.F. | 05023 |
| 4 | Around the Horn | Thomas Hardy | 120 Hanover Sq. | London | WA1 1 |
| 5 | Berglunds snabbköp | Christina Berglund | Berguvsvägen 8 | Luleå | S-958 |

# SQL HAVING Examples

The following SQL statement lists the number of customers in each country. Only include countries with more than 5 customers:

## Example

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```
SELECT COUNT(CustomerID), Country
FROM Customers
GROUP BY Country
HAVING COUNT(CustomerID) > 5;
```

**Try it Yourself »**

The following SQL statement lists the number of customers in each country, sorted high to low (Only include countries with more than 5 customers):

## Example

```
SELECT COUNT(CustomerID), Country
FROM Customers
GROUP BY Country
```

```
HAVING COUNT(CustomerID) > 5
ORDER BY COUNT(CustomerID) DESC;
```

**Try it Yourself »**

# Demo Database

Below is a selection from the "Orders" table in the Northwind sample database:

| OrderID | CustomerID | EmployeeID | OrderDate | ShipperID |
|---------|-----------|-----------|-----------|-----------|
| 10248 | 90 | 5 | 1996-07-04 | 3 |
| 10249 | 81 | 6 | 1996-07-05 | 1 |
| 10250 | 34 | 4 | 1996-07-08 | 2 |

And a selection from the "Employees" table:

| EmployeeID | LastName | FirstName | BirthDate | Photo | Notes |
|-----------|----------|-----------|-----------|-------|-------|
| 1 | Davolio | Nancy | 1968-12-08 | EmpID1.pic | Education includes a BA.... |
| 2 | Fuller | Andrew | 1952-02-19 | EmpID2.pic | Andrew received his BTS.... |
| 3 | Leverling | Janet | 1963-08-30 | EmpID3.pic | Janet has a BS degree.... |

# More HAVING Examples

The following SQL statement lists the employees that have registered more than 10 orders:

# Example

```sql
SELECT Employees.LastName, COUNT(Orders.OrderID) AS NumberOfOrders
FROM (Orders
INNER JOIN Employees ON Orders.EmployeeID = Employees.EmployeeID)
GROUP BY LastName
HAVING COUNT(Orders.OrderID) > 10;
```

Try it Yourself »

The following SQL statement lists if the employees "Davolio" or "Fuller" have registered more than 25 orders:

# Example

```sql
SELECT Employees.LastName, COUNT(Orders.OrderID) AS NumberOfOrders
FROM Orders
INNER JOIN Employees ON Orders.EmployeeID = Employees.EmployeeID
WHERE LastName = 'Davolio' OR LastName = 'Fuller'
GROUP BY LastName
HAVING COUNT(Orders.OrderID) > 25;
```

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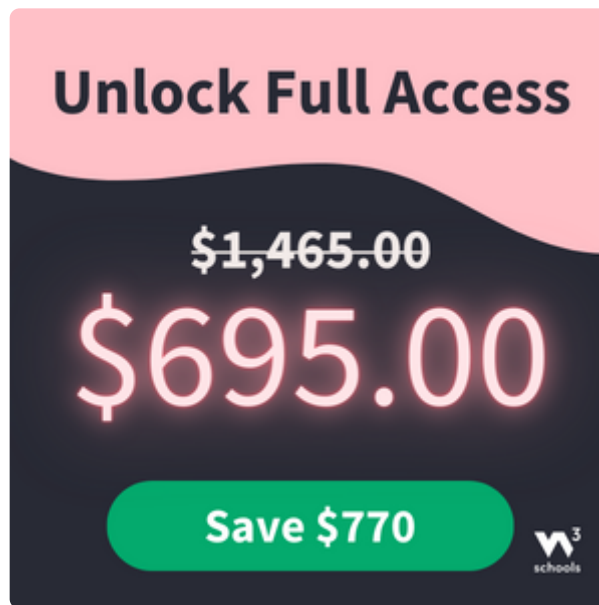## COLOR PICKER
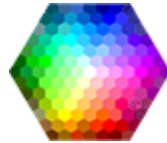




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