

### MariaDB: HAVING Clause

This MariaDB tutorial explains how to use the MariaDB **HAVING clause** with syntax and examples.

### **Description**

The MariaDB HAVING clause is used in combination with the <u>GROUP BY clause</u> to restrict the groups of returned rows to only those whose the condition is TRUE.

## **Syntax**

The syntax for the HAVING clause in MariaDB is:

### Parameters or Arguments

### aggregate\_function

It can be a function such as SUM, COUNT, MIN, MAX, or AVG functions.

### expression1, expression2, ... expression\_n

The expressions that are not encapsulated within an aggregate function and must be included in the GROUP BY clause.

#### WHERE conditions

Optional. These are the conditions for the records to be selected.

#### **HAVING** condition

This is a further condition applied only to the aggregated results to restrict the groups of returned rows. Only those groups whose condition evaluates to TRUE will be included in the result set.

## **Example - Using SUM function**

Let's look at an example of how to use the HAVING clause with the <u>SUM function</u> in MariaDB.

#### For example:

```
SELECT site_id, SUM(file_size) AS "Total"
FROM pages
WHERE site_id < 100
GROUP BY site_id
HAVING SUM(file_size) > 500;
```

This HAVING clause example uses the <u>SUM function</u> to return the *site\_id* and the total of all *file\_size* values (for that *site\_id*) where the *site\_id* is less than 100. The MariaDB HAVING clause will filter the results so that only *site\_id* values with a total *file\_size* greater than 500 will be returned.

## **Example - Using COUNT function**

Let's look at how to use the HAVING clause with the <u>COUNT function</u> in MariaDB.

For example:

```
SELECT site_id, COUNT(*) AS "Number of pages per site"
FROM pages
WHERE site_name in ('TechOnTheNet.com', 'BigActivities.com')
GROUP BY site_id
HAVING COUNT(*) >= 999;
```

This HAVING clause example uses the <u>COUNT function</u> in MariaDB to return the *site\_id* and the count of all pages (for that *site\_id*) that have a site\_name of either 'TechOnTheNet.com' or 'BigActivities.com'. The MariaDB HAVING clause will filter the results so that only *site\_id* values with greater than or equal to a total page count of 999 will be returned.

# **Example - Using MIN function**

Let's next look at an example of how to use the HAVING clause with the MIN function in MariaDB.

For example:

```
SELECT site_id, MIN(file_size) AS "Smallest File"
FROM pages
where site_id < 50
GROUP BY site_id
HAVING MIN(file_size) < 150;
```

This HAVING clause example uses the <u>MIN function</u> in MariaDB to return the *site\_id* and the minimum *file\_size* (for that *site\_id*) where the *site\_id* is less than 50. The HAVING clause will return only those *site\_id* values where the minimum *file\_size* is less than 150.

## **Example - Using MAX function**

Finally, let's look at an example of how to use the HAVING clause in MariaDB with the MAX function.

### For example:

```
SELECT site_id, MAX(file_size) AS "Largest File"
FROM pages
where site_id < 50
GROUP BY site_id
HAVING MAX(file_size) > 2500;
```

This HAVING clause example in MariaDB uses the <u>MAX function</u> to return the *site\_id* and the minimum *file\_size* (for that *site\_id*) where the *site\_id* is less than 50. The HAVING clause will return only those *site\_id* values where the maximum *file\_size* is greater than 2500.

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