SQL SUM() Function

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The SQL SUM() Function

The SUM() function returns the total sum of a numeric column.

Example

Get your own SQL Server

Return the sum of all Quantity fields in the OrderDetails table:

SELECT SUM(Quantity)
FROM OrderDetails;

Try it Yourself »

Syntax

SELECT SUM(column_name)
FROM table_name
WHERE condition;

Demo Database

Below is a selection from the **OrderDetails** table used in the examples:

OrderDetailID	OrderID	ProductID	Quantity
1	10248	11	12
2	10248	42	10
3	10248	72	5
4	10249	14	9
5	10249	51	40

Add a Where Clause

You can add a WHERE clause to specify conditions:

Example

Return the number of orders made for the product with ProductID 11:

```
SELECT SUM(Quantity)
FROM OrderDetails
WHERE ProdictId = 11;
```

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Use an Alias

Give the summarized column a name by using the AS keyword.

Example

Name the column "total":

```
SELECT SUM(Quantity) AS total
FROM OrderDetails;
```

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SUM() With an Expression

The parameter inside the SUM() function can also be an expression.

If we assume that each product in the OrderDetails column costs 10 dollars, we can find the total earnings in dollars by multiply each quantity with 10:

Example

Use an expression inside the SUM() parenthesis:

```
SELECT SUM(Quantity * 10)
FROM OrderDetails;
```

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We can also join the OrderDetails table to the Products table to find the actual amount, instead of assuming it is 10 dollars:

Example

Join OrderDetails with Products, and use SUM() to find the total amount:

```
SELECT SUM(Price * Quantity)
FROM OrderDetails
LEFT JOIN Products ON OrderDetails.ProductID = Products.ProductID;
```

Try it Yourself »

You will learn more about Joins later in this tutorial.

Test Yourself With Exercises

Exercise:

Use an SQL function to calculate the sum of all the Price column values in the Products table.

```
SELECT FROM Products;
```

Submit Answer »

Start the Exercise