

MAX function in SQL Server

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Describe

The MAX function in SQL Server is an aggregate function that returns the maximum value in a group.

Syntax

To use MAX function in SQL Server, we use the following syntax:

```
SELECT MAX(cot)
FROM bang
[WHERE dieukien];
```

Parameters :

1. *cot*: column or calculated value, expression you want to find the largest value
2. *state*: *the* table used to retrieve the record. Must have at least 1 table in the FROM clause.
3. *dieukien*: optional. Conditions that the record must meet to be selected.

Note :

1. MAX function can be used in later versions of SQL Server: SQL Server 2017, SQL Server 2016, SQL Server 2014, SQL Server 2012, SQL Server 2008 R2, SQL Server 2008, and SQL Server 2005.

For example

Take a look and explore some examples of MAX functions in SQL Server.

Suppose, we have the following data table:

Bang: Quantrimang

IDChuyenmuc	Chuyenmucon	Chuyenmuclon	Sobai
QTM01	SQL Server	Lap trinh	101
QTM02	Facebook	Mang xa hoi	152
QTM03	Python	Lap trinh	101
QTM04	JavaScript	Lap trinh	122
QTM05	Google Chrome	Trinh duyet web	94
QTM06	Instagram	Mang xa hoi	165

Example 1: Find the maximum number of posts in the table

```
SELECT MAX(Sobai)
FROM Quantrimang
WHERE Sobai < 100;
```

Result: 122

In this example we have the highest number of articles in a column in the Quantrimang table, where the number of posts is less than 100.

Example 2: Use GROUP BY

The following example finds the largest value of all records related to a large section, you will do the following:

```
SELECT Chuyenmuclon, MAX(Sobai) AS 'So bai nhieu nhat'
FROM Quantrimang
GROUP BY Chuyenmuclon;
```

Result:
Chuyenmuclon So bai nhieu nhat
Laptrinh 122
Mang xa hoi 165
Trinh duyet web 94

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Next lesson: MIN function in SQL Server

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