

QUARTILE function - The function returns the quartile of a dataset in Excel

The quartile is an indispensable value in the field of surveying and sales, it helps you evaluate certain criteria in a set. The following article details how to use QUARTILE function, the function returns the quartile of a dataset.

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Description: The function returns the quartile of a dataset. It is applied in survey and sales data.

Syntax: QUARTILE (array, quart) .

Inside:

- **array:** The data set (by array or range of cells) wants to find the quartile value, is a required parameter.
- **quart:** Specifies the value to return, is a required parameter. There are the following levels:
 - + quart = 0: Quartiles at minimum.
 - + quart = 1: The first quartile (25th percentile).
 - + quart = 2: Quartile at average value (50th percentile).
 - + quart = 3: Quartile at the third value (75th percentile).
 - + quart = 4: Quartile at maximum value.

Attention:

- If **array** parameter is empty => the function returns the value #NUM!
- If quart is decimal => function takes integer value of quart.
- If quart is outside the value set {0, 1, 2, 3, 4} => the function returns the #NUM! Error value
- In case quart = 0 => has the same value as MIN function, quart = 2 => has the same value for MEDIAN function, quart = 4 = same value for MAX function.

For example:

- Calculate the percentile value of the following data set:

	A	B	C
10		Cách sử dụng hàm QUARTILE	
11			
12	STT	Array	Quarty
13	1	18	0
14	2	19	1
15	3	21	2
16	4	25	3
17	5	26	4
18	ThuThuatPhanMem.vn		

1. Minimum percentile

In the cell to calculate enter the formula: = QUARTILE (B13: B17, C13) .

	A	B	C
10		Cách sử dụng hàm QUARTILE	
11			
12	STT	Array	Quarty
13	1	18	0
14	2	19	1
15	3	21	2
16	4	25	3
17	5	26	4
18	Giá trị phân vị tối thiểu là:		18

ThuThuatPhanMem.vn

The minimum percentile has the same value as the MIN function:

C19 : `=MIN(B13:B17)`

Cách sử dụng hàm QUARTILE		
STT	Array	Quarty
1	18	0
2	19	1
3	21	2
4	25	3
5	26	4
Giá trị phân vị tối thiểu là:		18
Giá trị hàm Min		18

Du_Lieu Sheet1

2. 25th percentile (quarty = 1)

In the cell to calculate enter the formula: `= QUARTILE (B13: B17, C14) .`

C18 : `=QUARTILE(B13:B17,C14)`

Cách sử dụng hàm QUARTILE		
STT	Array	Quarty
1	18	0
2	19	1
3	21	2
4	25	3
5	26	4
Giá trị phân vị thứ 25 là:		19

Du_Lieu Sheet1

3. 50th percentile

In the cell to calculate enter the formula: `= QUARTILE (B13: B17, C15) .`

C18 : `=QUARTILE(B13:B17,C15)`

Cách sử dụng hàm QUARTILE		
STT	Array	Quarty
1	18	0
2	19	1
3	21	2
4	25	3
5	26	4
Giá trị phân vị thứ 50 là:		21

Du_Lieu Sheet1

The 50th percentile has the same value as the MEDIAN function.

C19 : `=MEDIAN(B13:B17)`

Cách sử dụng hàm QUARTILE		
STT	Array	Quarty
1	18	0
2	19	1
3	21	2
4	25	3
5	26	4
Giá trị phân vị thứ 50 là:		21
Giá trị hàm Median		21

Du_Lieu Sheet1

4. 75th percentile

In the cell to calculate enter the formula: `= QUARTILE (B13: B17, C16) .`

C18 : X ✓ fx =QUARTILE(B13:B17,C16)

Cách sử dụng hàm QUARTILE		
STT	Array	Quarty
1	18	0
2	19	1
3	21	2
4	25	3
5	26	4
Giá trị phân vị thứ 75 là:		25

Du_Lieu Sheet1

5. Percentage with maximum value

Enter the formula: = QUARTILE (B13: B17, C17) .

C18 : X ✓ fx =QUARTILE(B13:B17,C17)

Cách sử dụng hàm QUARTILE		
STT	Array	Quarty
1	18	0
2	19	1
3	21	2
4	25	3
5	26	4
Giá trị phân vị tối đa là:		26

Du_Lieu Sheet1

Maximum percentile value equal to the MAX function value:

STT	Array	Quarty
1	18	0
2	19	1
3	21	2
4	25	3
5	26	4
Giá trị phân vị tối đa là:		26
Giá trị hàm MAX		26

The above is a detailed guide of usage and special cases of Quartly function.

Good luck!

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