

How can I use the MINIFS function in Google Sheets to find the minimum value in a range based on multiple criteria?

Authored by
stats writer

June 30, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I use the MINIFS function in Google Sheets to find the minimum value in a range based on multiple criteria?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=162712>

The MINIFS function in Google Sheets allows you to find the minimum value in a range of data based on multiple criteria. This function is useful when you want to find the smallest value that meets specific conditions. By using MINIFS, you can easily filter and extract the minimum value from a large dataset, saving time and effort. This function takes in multiple criteria as inputs, including ranges and logical operators, to accurately locate the minimum value that meets all specified conditions. It is an efficient tool for data analysis and decision-making in various industries and can be easily accessed in Google Sheets.

MINIFS

Returns the minimum value in a range of cells, filtered by a set of criteria.

MINIFS for BigQuery

Returns the minimum value in a filtered data column, filtered by a set of criteria applied to additional data columns.

Sample Usage

```
MINIFS(table_name!price, table_name!fruits, "Apple", table_name!inventory, "<30")
```

Syntax

```
MINIFS(column, criteria_column1, criterion1, creteria_column2, criterion2)
```

column - The data column from which the minimum will be determined.
criteria_column1 - The data column over which to evaluate `criterion1`.
criterion1 - The pattern or test to apply to `criteria_column1`, such that each cell that evaluates to `TRUE` will be included in the filtered set.
creteria_column2 - Additional data columns over which to evaluate the additional criteria. The filtered set will be the intersection of the sets produced by each criterion-column pair.
criterion2 - The pattern or test to apply to `criteria_column2`.

Sample Usage

```
MINIFS(A1:A3, B1:B3, 1, C1:C3, "A")
```

```
MINIFS(D4:E5, F4:G5, ">5", F6:G7, "<10")
```

Syntax

`MINIFS(range, criteria_range1, criterion1,)`

`range` - The range of cells from which the minimum will be determined.

`criteria_range1` - The range of cells over which to evaluate `criterion1`.

`criterion1` - The pattern or test to apply to `criteria_range1`.

`criteria_range2, criterion2, ...` - **Optional:** Additional ranges and their associated criteria. Note that filtering will result in the intersection of these.

Notes

`MINIFS` will return 0 if none of the criterion are satisfied.`range` and all of the criterion ranges must be the same size. If they aren't, `MINIFS` will return a #VALUE error.

See Also

`MAXIFS`:

Returns the maximum value in a range of cells, filtered by a set of criteria.

`SUMIFS`: Returns the sum of a range depending on multiple criteria.

`MIN`: Returns the minimum value in a numeric dataset.

Example

	A	B	C
1	ID	Score	Section
2	123	30	B
3	102	28	A
4	157	29	A
5	189	19	B
6			
7	Solution	Formula	
8	102	= MINIFS(A2:A5, B2:B5, ">25", C2:C5, "A")	

	A	B	C
9	123	= MINIFS(A2:A5, B2:B5, ">25", C2:C5, "B")	
10	123	= MINIFS(A2:A5, B2:B5, "<35", C2:C5, "B")	
11	0	= MINIFS(A2:A5, B2:B5, ">35", C2:C5, "B")	

ARABPSYCHOLOGY.COM