#### SUMIFS

[Syntax](Syntax.docx):

SUMIFS ( sum-range , cell-range-1 , selection-criteria-1
[ , cell-range-2 , selection-criteria-2 [ , … ] ] )

Description: Adds the cells in a range that meet multiple criteria.

Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| sum-range | [reference](reference.docx) | Designates the cells whose values are summed. In this case, sum-range does not have to have the same size and shape as cell-range-1 through cell-range-n. The actual cells that are added are determined by using the top, left [cell](cell.docx) in sum-range as the beginning [cell](cell.docx), and then including cells that correspond in size and shape to cell-range-1 through cell-range-n. Each [cell](cell.docx) in sum-range is summed only if all of the corresponding criteria specified are true for that cell. Cells in sum-range that contain [TRUE](TRUE.docx) evaluate to 1; cells in sum-range that contain [FALSE](FALSE.docx) evaluate to 0. |
| cell-range-1 | [reference](reference.docx) | Designates the first range of cells to be inspected. |
| selection-criteria-1 | number, expression, [reference](reference.docx), [text](text.docx) | Specifies the criteria for the first range of cells that will be counted. In the case of text, selection-criteria-1 can consist of any comparison operator followed by the operand against which each cell's value is to be compared. selection-criteria-1 can include one or more wildcard characters, question mark (?) and asterisk (\*). A question mark matches any single character; an asterisk matches any sequence of characters. To search for a question mark, asterisk, or tilde character, prefix that character with a tilde (~). |
| cell-range-n | [reference](reference.docx) | The optional arguments selection-criteria-2 through selection-criteria-n have corresponding arguments cell-range-2 through cell-range-n, and have the same semantics as selection-criteria-1 and cell-range-1, respectively. |
| selection-criteria-n | number, expression, [reference](reference.docx), [text](text.docx) |

Return Type and Value: number – The sum of the cells corresponding to those selected.

[Example: Given the following data:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | A | B | C | D |
| 1 | Sales Person | [Tables](Tables.docx) | Chairs | Desks |
| 2 | Emilio | 34 | 85 | 97 |
| 3 | Julie | 353 | 23 | 18 |
| 4 | Hans | 13 | 67 | 14 |
| 5 | Frederique | 0 | 98  | 0 |

SUMIFS(B2:C5,A2:A5,"=Julie") results in 353 (the sum of the number of [tables](tables.docx) and chairs sold by Julie)

SUMIFS(B2:B5,A2:A5,"=Julie",A2:A5,"=Hans") results in 0 (the sum of the number of [tables](tables.docx) sold by Julie and Hans)

SUMIFS(B2:B5,A3,"=Julie",A4,"=Hans") results in 34 (the sum of the the number of [tables](tables.docx) sold by Julie and Hans)

SUMIFS(B2:D5,A2:A5,"<>Emilio") results in 768 (the sum of the number of [tables](tables.docx), chairs, and desks sold by all sales persons except Emilio)

end example]