

Chapter 2

Excel Statistical Functions 1

Lecturer: Dimaz Ramananda, S.E., M.Ak.

1. COUNT

this function is used to count the number of cells that contain numbers and count the numbers in the argument list. This count includes both numbers and dates.

The syntax of the function is:

=COUNT(value1, [value2], ...)

value1 The first item, cell reference, or range for which you want to count (**required**).

[value2] Can be filled with up to 255 additional items, cell references, or ranges that you want to count (**optional**).

2. COUNTA

function used to count the number of cells that are not empty in a range or range name.

The syntax of the function is:

=COUNTA(value1, [value2], ...)

value1 The first item, cell reference, or range for which you want to calculate the number (**required**)

[value2] Can be filled with up to 255 additional items, cell references, or ranges that you want to count numbers (**optional**).

3. COUNTBLANK

the function used to count the number of blank cells in a range.

The syntax of the function is:

=COUNTBLANK(range)

range The range for which you want to count blank cells (required)

4. COUNTIF

the function used to count the number of cells that meet the specified criteria.

The syntax of the function is:

=COUNTIF(range, criteria)

range The range you want to calculate can contain numbers, lists, range names or cell references that contain numbers (**required**).

criteria The number, expression, or cell reference that determines which cell to count (**required**).

5. COUNTIFS

a function used to count the number of cells that meet some specified criteria.

The syntax of the function is:

=COUNTIFS(criteria_range1, criteria1, [criteria_range2, criteria2], ...)

criteria_range1 The first range to evaluate the related criteria (**required**).

criteria1 A criterion in the form of a number, expression, cell reference or text that determines which cells to count (**required**).

[criteria_range2, criteria2], ... Range and associated additional criteria (**optional**).

6. AVERAGE

a function that can average the numbers that we have in excel quickly and accurately.

The syntax of the function is:

=AVERAGE(number1, [number2], ...)

number1 The first number, cell reference, or range for which you want the average (**required**).

[number2] Additional numbers, cell references, or ranges for which you want the average, up to a maximum of 255 (**optional**).

7. AVERAGEA

function used to calculate the average (arithmetic mean) of the values in the argument list.

The syntax of the function is:

=AVERAGEA(number1, [number2], ...)

number1, [number2], ... The number from 1 to 255 for which you want to find the average (number1 is required, number2 and so on are optional).

8. AVERAGEIF

function used to calculate the average (arithmetic) of all cells in a range that meet the specified criteria.

The syntax of the function is:

=AVERAGEIF(range, criteria, [average_range])

range	One or more cells to be averaged, including numbers or names, arrays, or references that contain numbers (required).
criteria	Criteria in the form of numbers, expressions, cell references, or text determine which cells to average (required).
average_range	The actual set of cells to be averaged. If left blank, then the range is used (optional).

9. AVERAGEIFS

a function used to calculate the average (arithmetic) for all cells that meet some criteria.

The syntax of the function is:

=AVERAGEIFS(average_range, criteria_range1, criteria1, [criteria_range2, criteria2], ...)

average_range	One or more cells to be averaged, containing numbers or names, arrays, or references containing numbers (required).
criteria_range1, criteria_range2, ...	1 to 127 ranges used to evaluate related criteria.
criteria1, criteria2, ...	1 to 127 criteria in the form of numbers, expressions, cell references, or text that specify the cells to be averaged.

10. MEDIAN

this function is used to find the median of a certain number.

The syntax of the function is:

=MEDIAN(number1, [number2], ...)

number1,	The number from 1 to 255 for which you want to find the median (number1
[number2], ...	is required, number2 and so on are optional).

REFERENCES:

<https://support.microsoft.com/>