

Chapter 5

Excel Statistical Functions 4

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

1. PERCENTILE.INC

a function used to find the value of the k-th percentile in a range, where k is in the range 0..1, including 0 and 1.

The syntax of the function is:

=PERCENTILE.INC(array; k)

array Array or range of data specifying relative positions.

k Percentile values in the range 0...1 - inclusive.

2. PERCENTILE.EXC

a function used to find the value of the k-th percentile in a range, where k is in the range 0..1, exclusive.

The syntax of the function is:

=PERCENTILE.EXC(array; k)

array Array or range of data specifying relative positions.

k Percentile values in the range 0...1 - exclusive

3. QUATILE.INC

a function used to find the quartile of a data unit, based on percentile values that include 0..1.

The syntax of the function is:

=QUARTILE.INC(array; quart)

array Array or range of numeric cells for which you want to find the quartile value.

quart Indicates which value should be returned.

4. QUARTILE.EXC

a function used to find the quartile of a data unit, based on percentile values that include 0..1, exclusive.

The syntax of the function is:

=QUARTILE.EXC(array; quart)

array Array or range of numeric cells for which you want to find the quartile value
quart Indicates which value should be returned.

5. RANK.EQ

function used to determine the rank of a number in a list of numbers.

The syntax of the function is:

=RANK.EQ(number; ref; [order])

number The number whose rank you want to find.

ref An array of or a reference to a list of numbers.

[order] How to set a rating.

6. RANK.AVG

function used to determine the rank of a number in a list of numbers.

The syntax of the function is:

=RANK.AVG(number; ref; [order])

number The number whose rank you want to find.

ref An array of or a reference to a list of numbers.

[order] How to set a rating.

7. PERCENTRANK.INC

used to determine the rank of a value in a group of data as a percentage of a group of data.

The syntax of the function is:

=PERCENTRANK.INC(array; x; [significance])

array Array or range of data with numeric values describing their relative positions.

x The number you want to rank for.

[significance] A value that specifies the number of significant digits for the returned percentage value.

8. PERCENTRANK.EXC

used to determine the rank of a value in a group of data as a percentage of a group of data.

The syntax of the function is:

=PERCENTRANK.EXC(array; x; [significance])

array Array or range of data with numeric values describing their relative positions.
x The number you want to rank for.
[significance] A value that specifies the number of significant digits for the returned percentage value.

9. HARMEAN

a function used to calculate the harmonic average of a data set.

The syntax of the function is:

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

number1; 1 to 255 arguments for which you want to calculate the
[number2] mean.

10. TRIMMEAN

a function used to find the average of a data series.

The syntax of the function is:

=TRIMMEAN(array; percent)

array The array or range of values to trim and average.
percent The fractional number of data points to exclude from the calculation.

Reference:

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