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Use of Average IF and Average IFS Function in MS - Excel

Microsoft Excel

Module 20 - Use of Average IF and Average IFS Function in MS - Excel

Average IF and Average IFS:-

In Microsoft Excel, the functions **AVERAGEIF** and **AVERAGEIFS** are used to calculate the average (mean) of a range of values based on one or more conditions or criteria. They are especially useful when you need to perform conditional averaging.

AVERAGEIF Function:

The **AVERAGEIF** function calculates the average of a range of cells based on a single condition or criteria.

FORMULA:

=**AVERAGEIF** (range, criteria, [average range])

- **Range:** The range of cells that you want to apply the criteria to.
- **Criteria:** The condition that must be met to include the corresponding value in the average. This could be a number, text, expression, or even a cell reference.
- **[average range]** (Optional): The actual cells to average if different from the range. If omitted, Excel will average the cells in the range.

AVERAGEIF Function

Address	Price	Beds	Baths
3007 Arthur Ave	\$0	2	1
2479 North Rd	\$109,900	1	1
4318 D Street	\$112,000	2	1
4883 Hartland Ave	\$129,900	1	1
4150 Richland	\$149,900	2	1
2659 Crestview Ln	\$189,000	3	2
1448 Cheno Dr	\$229,900	4	2
1301 Robb Ct	\$355,000	3	2
4803 Hoffman Ave	\$385,000	4	2
897 Wiseman St	\$448,000	5	3
1780 Teak St	\$589,900	4	3

Criteria	Average
> \$0	\$269,850
> \$200k	\$401,560
2+ beds	\$273,189
3+ beds	\$366,133

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2. AVERAGEIFS Function:

The AVERAGEIFS function calculates the average of a range of values based on multiple conditions or criteria.

FORMULA:

=AVERAGEIFS (average range, range1, criteria1, [range2], [criteria2],)

- Average range: The actual cells to average.
- range1, range2, the ranges to apply the criteria to.
- criteria1, criteria2, the conditions that must be met in the corresponding ranges.

	A	B	C	D	E	F	G
1	Region	Month	Sales		Average Sales		
2	North	Jan	\$ 1,520		=AVERAGEIFS(C2:C15,A2:A15,"East")		
3	East	Feb	\$ 2,111				
4	North	Mar	\$ 4,649				
5	East	Jan	\$ 4,987				
6	North	Feb	\$ 2,707				
7	East	Mar	\$ 3,002				
8	North	Jan	\$ 2,040				
9	East	Feb	\$ 3,724				
10	East	Mar	\$ 1,685				
11	East	Mar	\$ 1,516				
12	East	Feb	\$ 2,843				
13	North	Mar	\$ 2,358				
14	North	Jan	\$ 1,841				
15	North	Feb	\$ 2,017				
16							

Difference between Average if and Average ifs

Feature	AVERAGEIF	AVERAGEIFS
Conditions (Criteria)	One condition (single criteria)	Multiple conditions (multiple criteria)
Syntax	AVERAGEIF(range, criteria, [average_range])	AVERAGEIFS(average_range, range1, criteria1, ...)
Number of Conditions	Only one condition can be specified	Multiple conditions can be specified
Use Case	When you need to average based on a single condition	When you need to average based on multiple conditions

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ASSIGNMENT


By using the following data find the Average IF and Average IFS :-

Item	Region	Sales
Apple	South	\$106
Banana	North	\$118
Apple	North	\$0
Banana	North	\$142
Apple	South	\$0
Orange	South	\$234
Apple	South	\$152
Orange	South	\$126
Banana	North	\$0
Orange	South	\$156
Banana	North	\$147
Orange	North	\$124
Apple	South	\$194

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