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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	Criteria	Average
3007 Arthur Ave	\$0	2	1	> \$0	\$269,850
2479 North Rd	\$109,900	1	1	> \$200k	\$401,560
4318 D Street	\$112,000	2	1	2+ beds	\$273,189
4883 Hartland Ave	\$129,900	1	1	3+ beds	\$366,133
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		

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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.

Table3		=AVERAGEIFS(B2:B10, B2:B10, ">200", A2:A10, "Laptops")									
	A	B	C	D	E	F	G	H	I	J	
1	Product	Amount (\$)	Avg. of Sales >\$200								
2	Laptops	250	420								
3	Tablets	150									
4	Laptops	300									
5	Phones	100									
6	Laptops	500									
7	Tablets	200									
8	Laptops	450									
9	Phones	180									
10	Laptops	600									
11											

In the above question: In **C2** type in the following “=AVERAGEIFS(B2:B10, B2:B10, “>200”, A2:A10, “Laptops”)” to find the **average sales amount** for “Laptops” where the sales amount is greater than \$200. And check the result.

**Explanation:**

- B2:B10 is the range from which to calculate the average (Amount).
- B2:B10 is the range to check for the first criterion (Sales Amount > 200).
- ">200" is the criterion for the sales amount.
- A2:A10 is the range to check for the second criterion (Product = “Laptops”).
- "Laptops" is the criterion for the product.

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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

ASSIGNMENT

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

- Ques 1: What is the **average sales** for all "Apple" items?
- Ques 2: What is the average sales for **Apple** in the **South** region?
- Ques 3: What is the average sales for **Orange** where sales are **greater than \$150**?

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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