

How to combine IF, AND and OR functions to filter data

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If you only use the IF function, the AND function and the OR function, you cannot see the full usefulness of these functions in Excel. The following article will combine the IF function, the AND function and the OR function to filter data, process data in Excel, please follow along.



First, the article will present through the syntax of the IF, AND and OR functions, if you do not understand each function, you can refer to the articles at the link below.

IF function syntax

= IF (logical_test; [value_if_true]; [value_if_false])

Inside:

1. **logical_test** : an expression that can be TRUE or FALSE.
2. **value_if_true** : value you want to return if the **logical_test argument** is TRUE.
3. **value_if_false** : value you want to return if the **logical_test argument** is FALSE.

You want to calculate the bonus for Sales staff, the bonus is 4% of the total sales provided that Sales > = 80000 or employees in Area 3 with Sales > = 60000.

To do this, in the first cell of the Bonus column, enter the following formula:

= IF (OR (E8 > = 80000; AND (D8 = "Area 3"; E8 > = 60000)); 0.04 * E8; "No reward")

The condition of the IF function is **OR (E8 > = 80000; AND (D8 = "Area 3"; E8 > = 60000))** if the IF function returns TRUE if either of the conditions in the OR function is true, the AND function returns TRUE if both conditions in the AND function are true.

If the IF function returns TRUE, the employee is rewarded with a bonus of 4% of sales of 0.04 * E8. If the IF function returns FALSE, the string returns 'No reward'.

Your results will be as follows:

Nhân viên bán hàng	Khu vực	Doanh số bán	Tiền thưởng
Nguyễn Anh	Khu vực 1	50000	Không thưởng
Ngọc Anh	Khu vực 1	76342	
Đức Bình	Khu vực 1	85244	
Ngọc Châm	Khu vực 2	63215	
Phạm Chiến	Khu vực 2	86236	
Ngọc Hân	Khu vực 2	45221	
Thu Hương	Khu vực 3	36000	
Đức Kiên	Khu vực 3	55000	
Đình Nam	Khu vực 3	67000	

Next, copy the function formula down to the cells below to calculate the **Bonus** for all **Salespeople** .

Nhân viên bán hàng	Khu vực	Doanh số bán	Tiền thưởng
Nguyễn Anh	Khu vực 1	50000	Không thưởng
Ngọc Anh	Khu vực 1	76342	Không thưởng
Đức Bình	Khu vực 1	85244	3409,76
Ngọc Châm	Khu vực 2	63215	Không thưởng
Phạm Chiến	Khu vực 2	86236	3449,44
Ngọc Hân	Khu vực 2	45221	Không thưởng
Thu Hương	Khu vực 3	36000	Không thưởng
Đức Kiên	Khu vực 3	55000	Không thưởng
Đình Nam	Khu vực 3	67000	2680

Above the article shared how to combine the IF function, the AND function and the OR function in Excel, you can combine the IF function with the AND function or the IF function with the OR function according to the data processing requirements you encounter. To achieve the best effect. Good luck!

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