

Essential Functions - 2

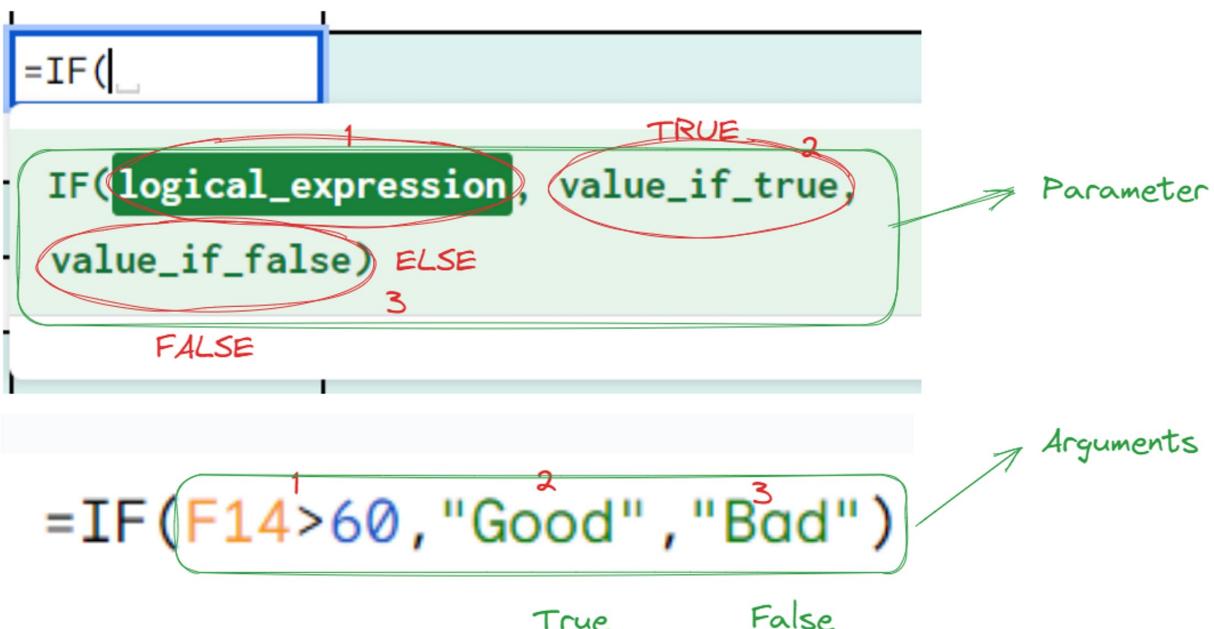
22 March 2024 10:20

Essential Functions

AND Logic

T	T	T	T
T	T	F	F
T	F	T	F
T	F	F	F
F	T	T	F
F	T	F	F
F	F	T	F
F	F	F	F

- - - = $2 \times 2 \times 2 = 8$



IF - Single Criteria
IFS - 1 or more Criteria

=IFS()

IFS(condition1, value1, [condition2, ...], [value2, ...])

Optional

Expand

[value2, ...])

Expand

IFS(condition1, value1, [condition2, ...],
[value2, ...])

EXAMPLE
IFS(A1>90, "A", A1>80, "B")

ABOUT

Evaluates multiple conditions and returns a value that corresponds to the first true condition.

condition1

=IFS(F14<=40, "Low", F14<=75, "Mid", F14>75, "High")

IF(F14<=75, "Mid", "High")

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=IFS(F14<=75, "Mid", F14<=40, "Low", F14>75, "High")

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Nested IF

=IFS(F14<=40, "Low", IF(F14<=75, "Mid", "High"))

1 2,a 2,b X

IFS(condition1, value1, [condition2, ...],
[value2, ...])

1 2,a 2,b

SUM IF - we need to calculate the sum based on some condition.

283582 ×

283582 x

=SUMIF(B14:B31, "NORTH", D14:D31)

SUMIF(range, criterion, [sum_range])

Where you search the criteria

Where you calculate the sum

Region
NORTH
SOUTH
EAST
WEST
WEST
NORTH
EAST
WEST
WEST

SALES
49049
53522
67320
66663
64750
14333
29570
83468
13964

=SUMIFS()

SUMIFS(sum_range, criterion1, [criterion1, [criterion2, ...], [criterion2, ...]])

total cost of south region for Foo Bars

=SUMIFS(E14:E31, B14:B31, B15, A14:A31, A15)

A	B	C	D	E	F	
11						
12	Company Name	Region	ORDER DATE	SALES	COSTS	MARKET SHARE (%)

	Company Name	Region	ORDER DATE	SALES	COSTS	MARKET SHARE (%)
13						
14	Demo Company	NORTH	10/1/2013	49049	7665	37
15	Foo Bars	SOUTH	11/1/2013	53522	7623	73
16	ABC Teleco	EAST	12/1/2013	67320	9860	71
17	Fake Brothers	WEST	10/1/2014	66663	9214	72
18	Demo Company	WEST	11/1/2014	64750	7945	48
19	Foo Bars	NORTH	12/1/2014	14333	8045	16
20	ABC Telecom	EAST	10/1/2015	29570	9277	51
21	Fake Brothers	WEST	11/1/2015	83468	9533	91
22	Demo Company	WEST	12/1/2015	13964	5124	29
23	Foo Bars	SOUTH	10/1/2016	16843	9386	26
24	ABC Telecom	NORTH	11/1/2016	78715	9200	81
25	Fake Brothers	WEST	12/1/2016	80780	5447	82
26	Demo Company	NORTH	10/1/2017	53413	9841	47
27	Foo Bars	SOUTH	11/1/2017	85607	5266	84
28	ABC Telecom	NORTH	12/1/2017	14659	5131	22
29	Fake Brothers	WEST	10/1/2018	43216	8800	63

=COUNTIF(

COUNTIF(range, criterion)