BATCH : BATCH 47 DATA SCIENCE

LESSON : GOOGLE SHEETS

DATE : 21.12.2021

SUBJECT : SORT, FILTER, IF

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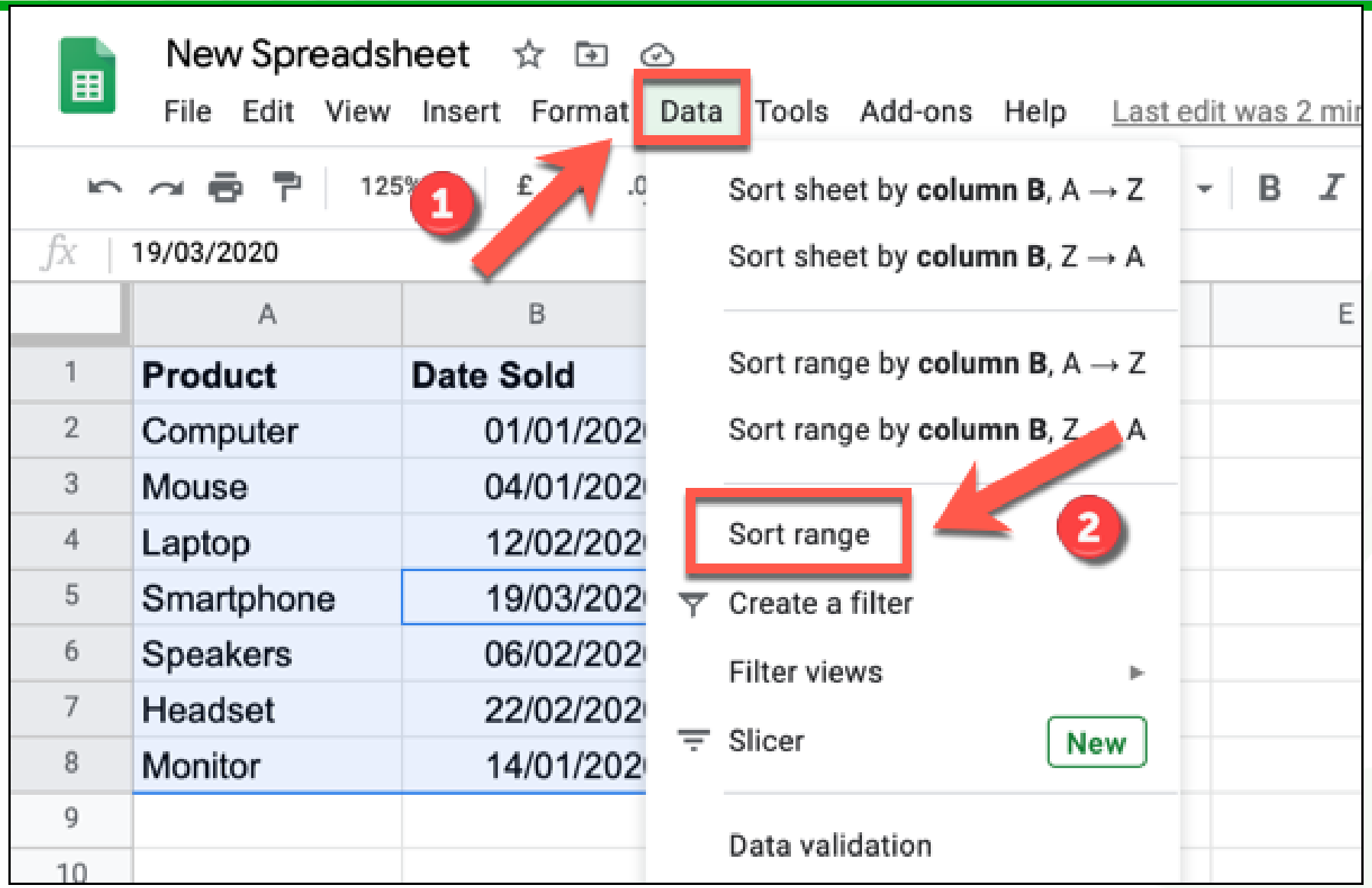
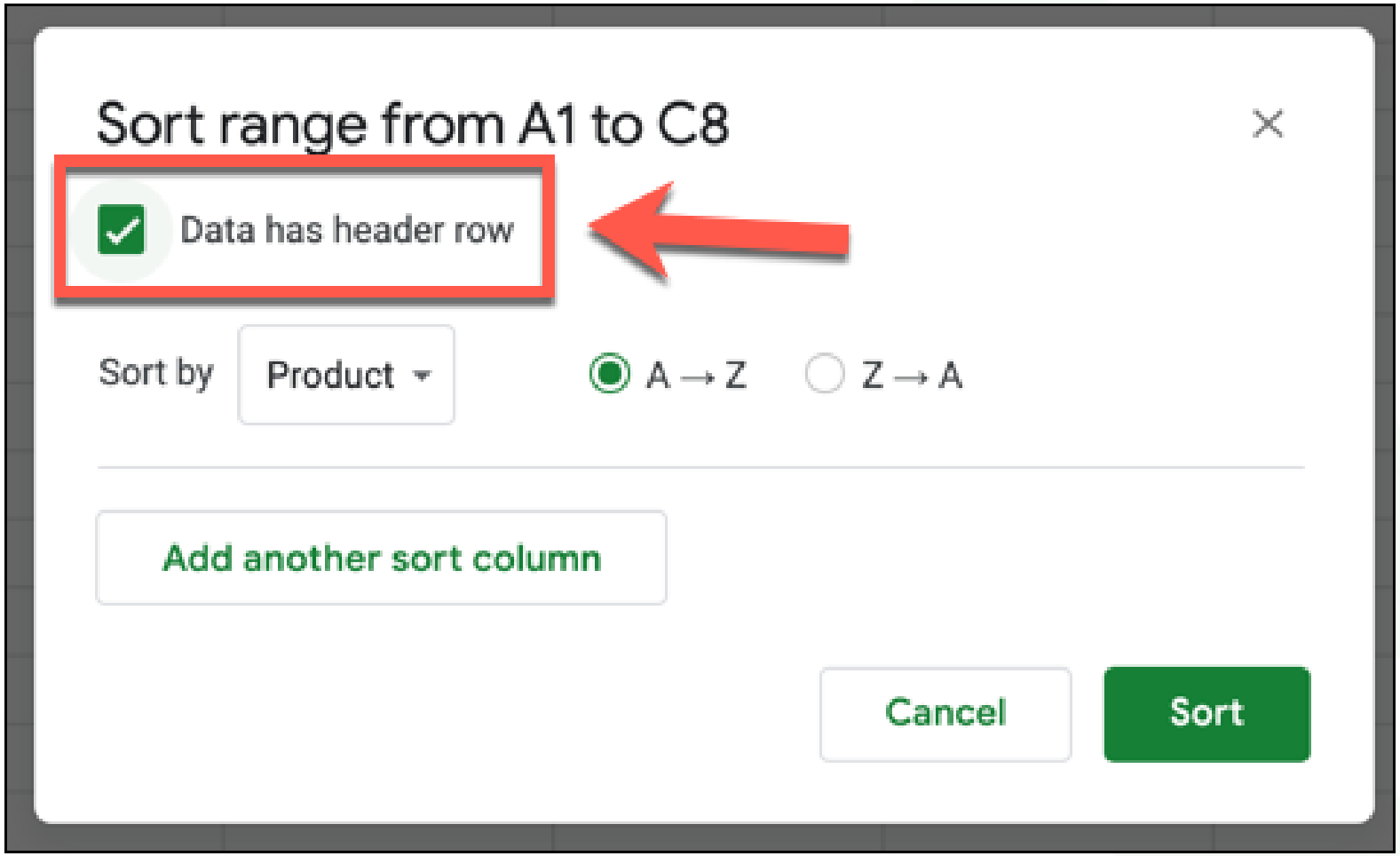
SORT AND FILTER

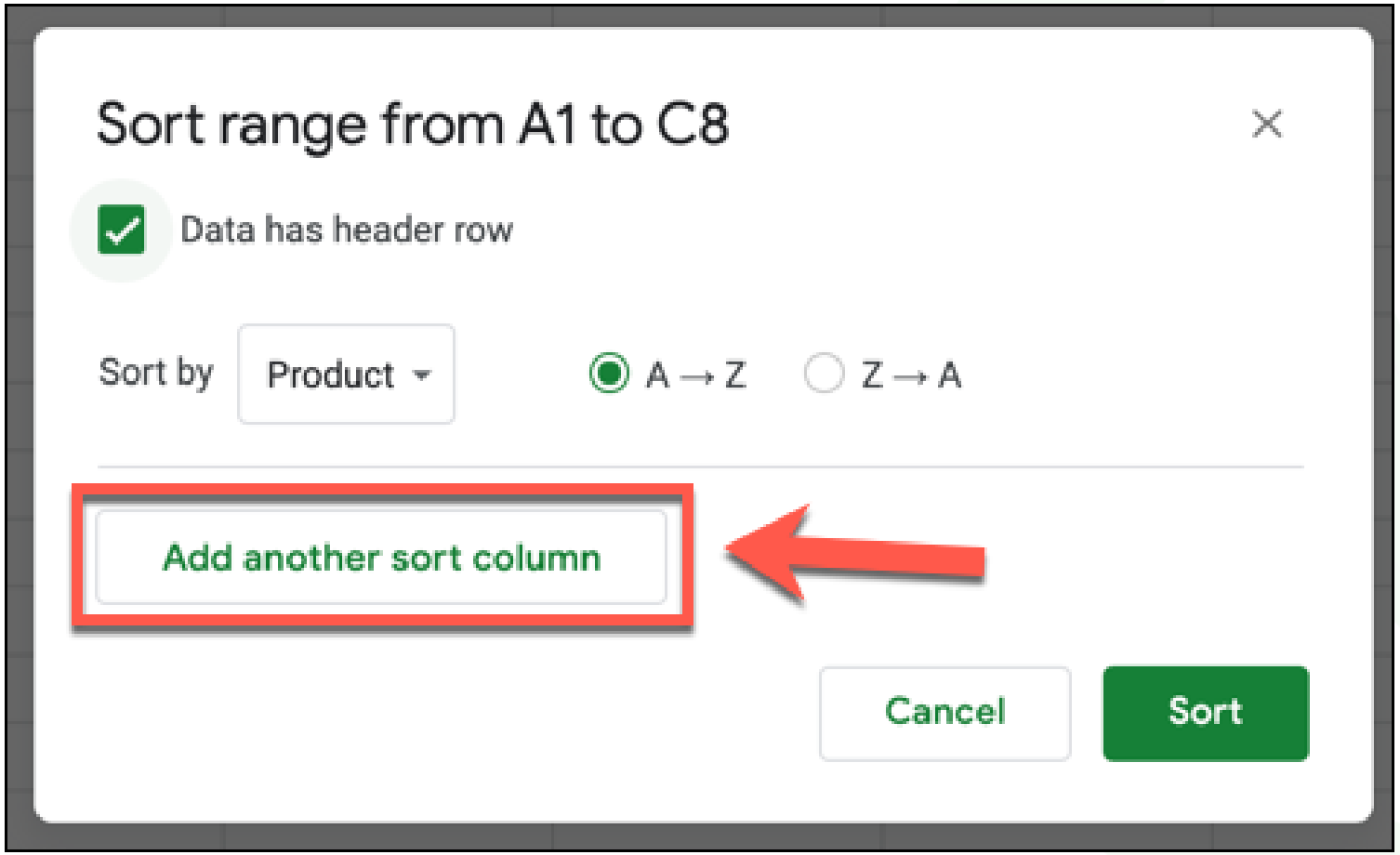
SORT AND FILTER



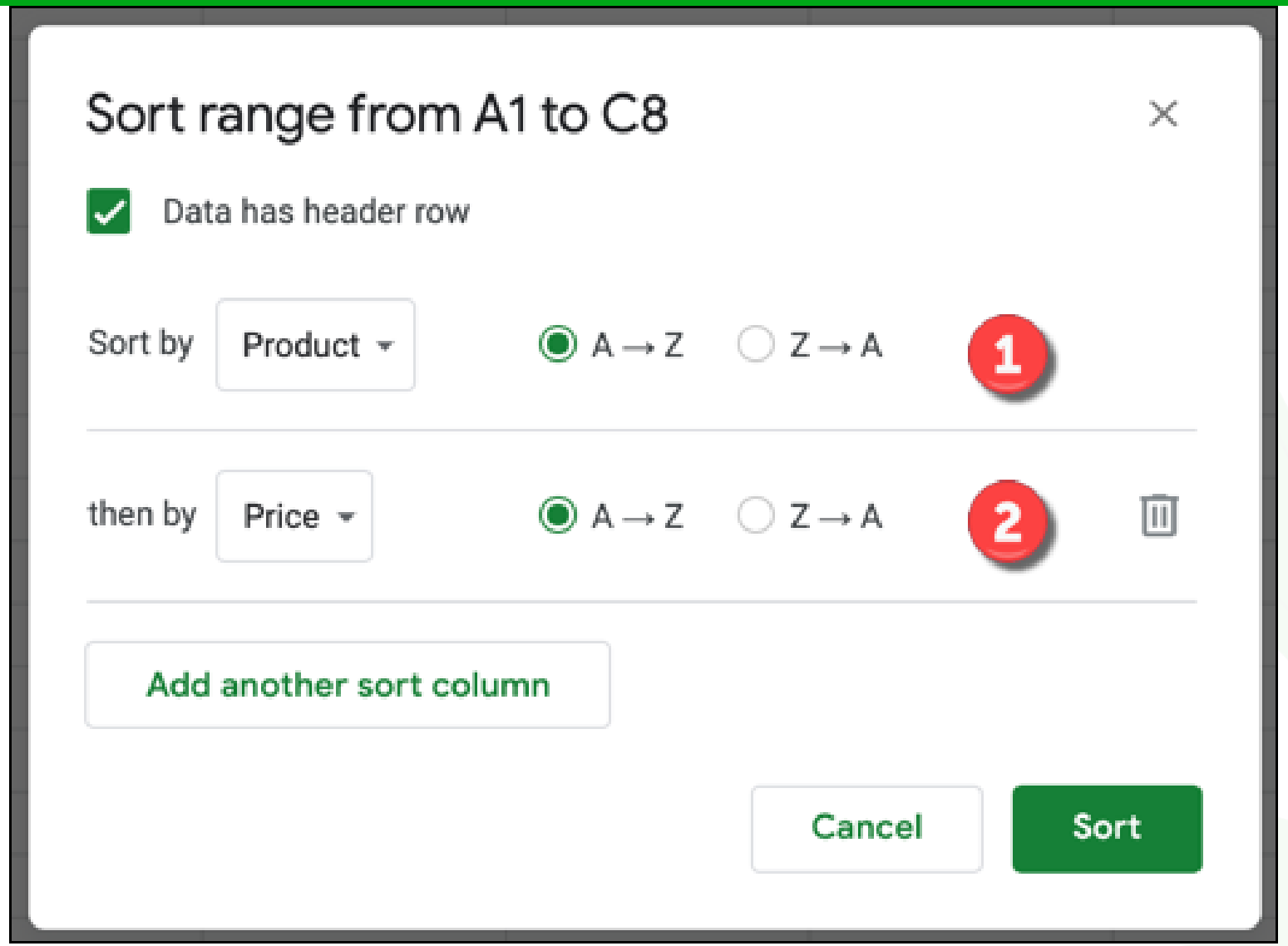
SORT AND FILTER



SORT AND FILTER



SORT AND FILTER



IF CONDITIONS

IF CONDITIONS

Logical Operators in Excel

Operator Symbol	Operator Name	Description
=	Equal to	Compares One Value to Other Value
>	Greater Than	Tests whether the value is greater than certain value or not
<	Less Than	Tests whether the value is less than certain value or not
>=	Greater Than or Equal To	Tests whether the value is greater than or equal to certain value or not
<=	Less Than or Equal To	Tests whether the value is less than or equal to certain value or not
<>	Not Equal To	Tests whether particular value is not equal to certain value

IF CONDITIONS

IF Functions

=IF(logical_expression, true_value, false_value)

A spreadsheet calculates the value of an IF function by first evaluating the logical expression.

If the expression is TRUE, then the first value in the function is used.

If the expression is FALSE, then the second value in the function is used.

= IF (Cell C2 >= Cell D2, "Yes it is", "No it isn't")

i.e.

When C2 is 9 and D2 is 7, the result = "Yes it is"

When C2 is 3 and D2 is 5, the result = "No it isn't"

IF CONDITIONS

```
=if(A2=200,1,2)
```

A	B	C
Data	**Formula**	**Result**
100	1	=if(A2=100,1,2)
200	2	=if(A2=200,1,2)
300	FALSE	=if(A2=200,1)
Yes	20,000	=if(A5="Yes",A2*A3,A4/A3)
No	1.5	=if(A6="Yes",A2*A3,A4/A3)
	Acceptable	=if(A2<=100,"Acceptable","Too Mu
	Too Much	=if(A3>=100,"Too Much","Acceptab

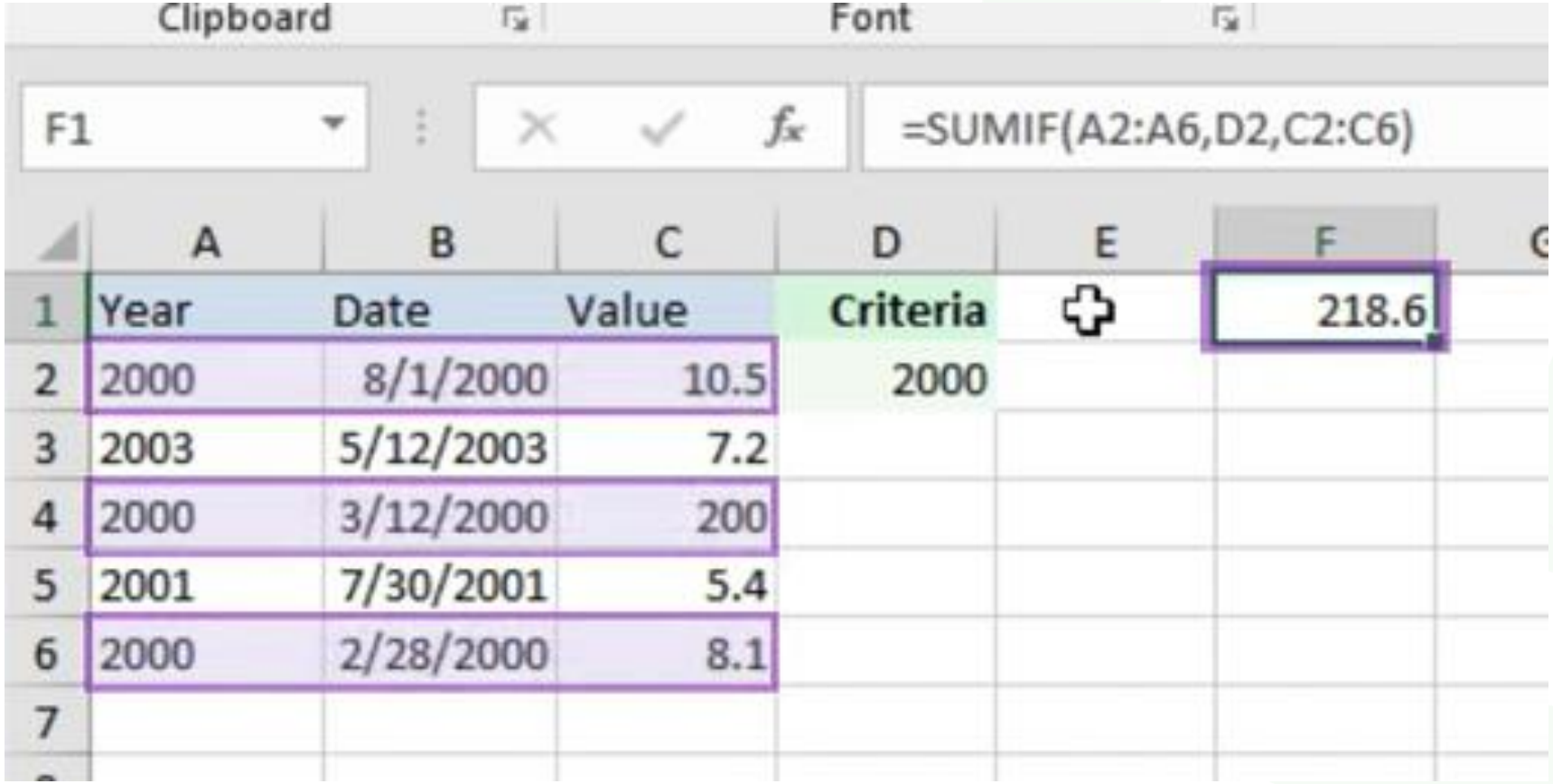
IFS CONDITIONS

C2 | fx | =IFS(B2<50,"Fail",B2<80,"Pass",B2>=80,"Pass with distinction")

	A	B	C
1	**Student**	**Result**	**Grade**
2	Bob	70	Pass
3	Jenny	90	Pass with distinction
4	Malik	86	Pass with distinction
5	Sue	49	Fail
6			

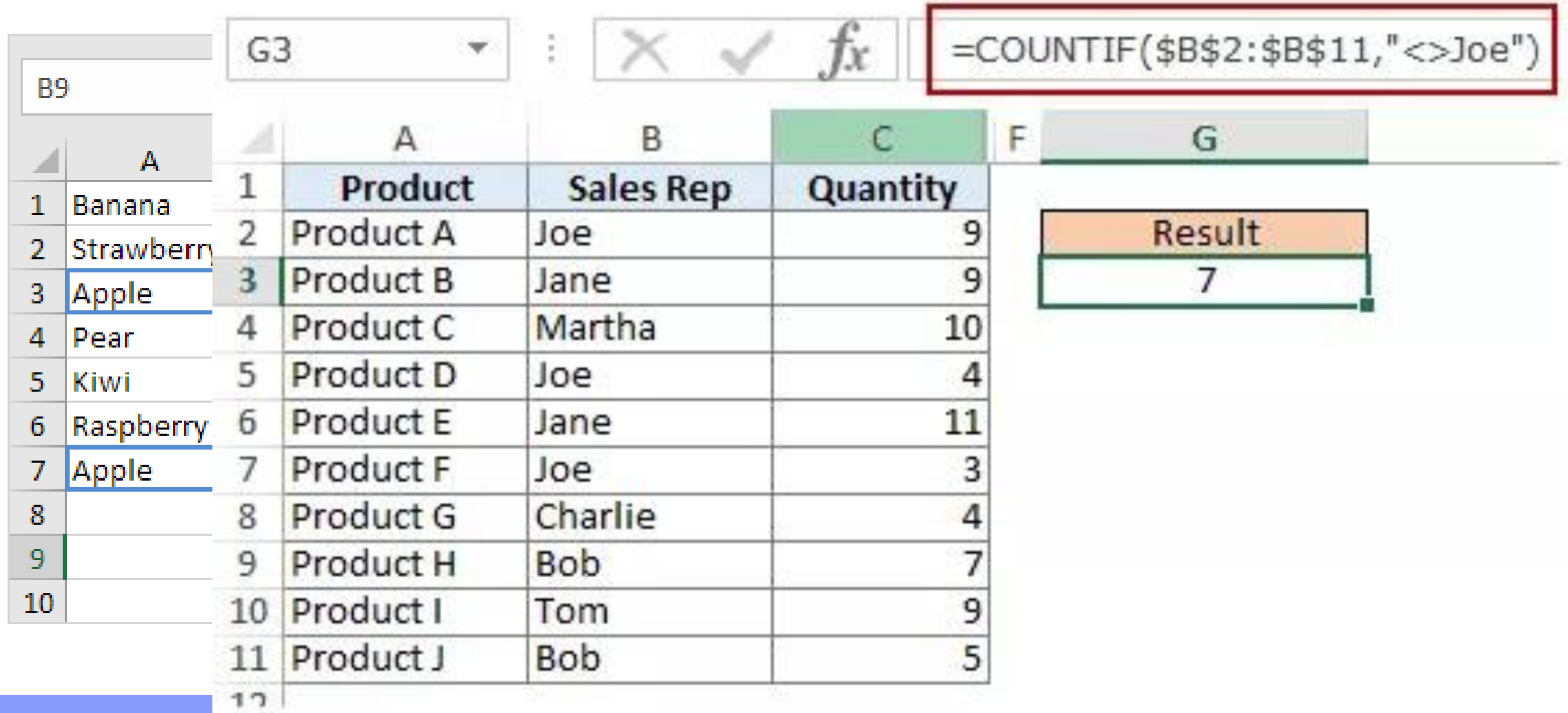
IFS CONDITIONS

SUMIF



IFS CONDITIONS

AVERAGEIF



B9

	A
1	Banana
2	Strawberry
3	Apple
4	Pear
5	Kiwi
6	Raspberry
7	Apple
8	
9	
10	

G3

=COUNTIF($B$2:$B$11,"<>Joe")

	A	B	C
1	Product	Sales Rep	Quantity
2	Product A	Joe	9
3	Product B	Jane	9
4	Product C	Martha	10
5	Product D	Joe	4
6	Product E	Jane	11
7	Product F	Joe	3
8	Product G	Charlie	4
9	Product H	Bob	7
10	Product I	Tom	9
11	Product J	Bob	5

G
Result
7

IFS CONDITIONS

COUNTIF

G3 | =COUNTIF($B$2:$B$11,"<>Joe")

	A	B	C	F	G
1	**Product**	**Sales Rep**	**Quantity**		
2	Product A	Joe	9		
3	Product B	Jane	9		
4	Product C	Martha	10		
5	Product D	Joe	4		
6	Product E	Jane	11		
7	Product F	Joe	3		
8	Product G	Charlie	4		
9	Product H	Bob	7		
10	Product I	Tom	9		
11	Product J	Bob	5		
12					

Result
7