

I am using Excel 2013

This is my equation to lookup the maximum value in column L when the value in column J matches cell D1.

D2 {=MAX(IF(J2:J10244=D1,L2:L10244))}

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	COLUMN ID'S			2GB				Location	REACTIONS	X	Y	Z	MX	MY	MZ	
2	None	Max=		37.5				1	1 3C	0	1.5	0	0	0	0	0
3	3C	Location		157				2	1 3B	4.1	-0.2	0	0	0	0	0
4	3B							3	1 3A	0	2.8	0	0	0	0	0
5	3A							4	1 3AA	0.3	-1	0	0	0	0	0
6	3AA							5	1 2C	3.6	1.8	0	0	0	0	0
7	2C							6	1 2A	5.2	-1.5	0	0	0	0	0
8	2A							7	1 1C	1.7	1.2	0	0	0	0	0
9	1C							8	1 1A	2.5	-1.1	0	0	0	0	0
10	1A							9	1 6GB	5.7	15.8	0	0	0	0	0
11	6GB							10	1 6AB	3.1	-7.6	0	0	0	0	0
12	6AB							11	1 1GB	4.4	0.7	0	0	0	0	0
13	1GB							12	1 1AB	4.4	0.7	0	0	0	0	0
14	1AB							13	1 2GB	7.1	27.2	0	0	0	0	0

This is my equation to lookup the location of the maximum value in column L when the value in column J matches cell D1.

D3 {=MATCH(MAX(IF(J2:J10244=D1,L2:L10244)),L2:L10244,0)}

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	COLUMN ID'S			2GB				Location	REACTIONS	X	Y	Z	MX	MY	MZ		
2	None	Max=		37.5				1	1 3C	0	1.5	0	0	0	0	0	0
3	3C	Location		157				2	1 3B	4.1	-0.2	0	0	0	0	0	0
4	3B							3	1 3A	0	2.8	0	0	0	0	0	0
5	3A							4	1 3AA	0.3	-1	0	0	0	0	0	0
6	3AA							5	1 2C	3.6	1.8	0	0	0	0	0	0
7	2C							6	1 2A	5.2	-1.5	0	0	0	0	0	0
8	2A							7	1 1C	1.7	1.2	0	0	0	0	0	0
9	1C							8	1 1A	2.5	-1.1	0	0	0	0	0	0
10	1A							9	1 6GB	5.7	15.8	0	0	0	0	0	0
11	6GB							10	1 6AB	3.1	-7.6	0	0	0	0	0	0
12	6AB							11	1 1GB	4.4	0.7	0	0	0	0	0	0
13	1GB							12	1 1AB	4.4	0.7	0	0	0	0	0	0
14	1AB							13	1 2GB	7.1	27.2	0	0	0	0	0	0
15	2GB							14	1 2AB	4.1	-1.5	0	0	0	0	0	0
16	2AB							15	1 Totals:	46.2	38.8	0	0	0	0	0	0

2GB has its maximum value of 37.5 at 157 and 2AB has its maximum value of 37.5 at 158

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
157								156	10 1AB		-0.5	11.3	0	0	0	0	0
158								157	10 2GB		6.3	37.5	4	0	0	0	0
159								158	10 2AB		-6.3	37.5	4	0	0	0	0

When I have 2AB selected it gives me the correct maximum value, but since it has the same maximum value as 2GB and 2GB comes before 2AB, my formula gives me the location of 2GB's maximum value of 157 instead of 158.

	A	B	C	D	E	F
1	COLUMN ID'S			2AB		
2	None		Max=	37.5		
3	3C		Location	157		
4	3B					
5	3A					

I am stumped. What formula can I use to give me the correct location of the maximum value even when there is another value with the same maximum value?