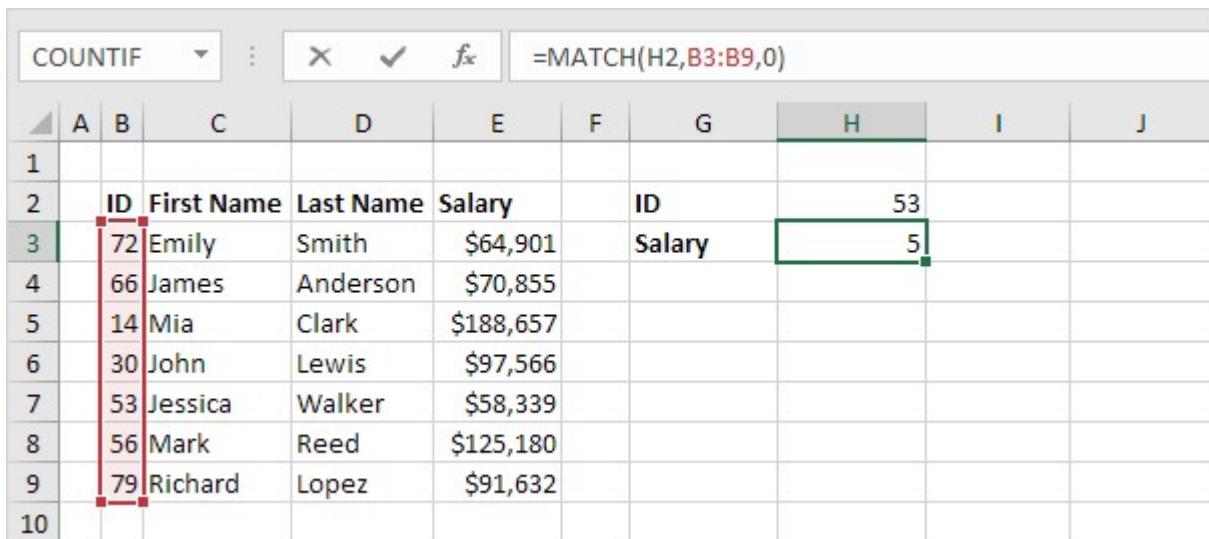


INDEX and MATCH in Excel

Use INDEX and MATCH in Excel and impress your boss. Instead of using [VLOOKUP](#), use INDEX and MATCH. To perform advanced lookups, you'll need INDEX and MATCH.

◆ MATCH

The MATCH function returns the position of a value in a given range. For example, the MATCH function below looks up the value 53 in the range B3:B9.



	COUNTIF	:	X	✓	f _x	=MATCH(H2,B3:B9,0)					
1		A	B	C	D	E	F	G	H	I	J
2		ID	First Name	Last Name	Salary		ID		53		
3		72	Emily	Smith	\$64,901		Salary		5		
4		66	James	Anderson	\$70,855						
5		14	Mia	Clark	\$188,657						
6		30	John	Lewis	\$97,566						
7		53	Jessica	Walker	\$58,339						
8		56	Mark	Reed	\$125,180						
9		79	Richard	Lopez	\$91,632						
10											

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Explanation: 53 (first argument) found at position 5 in the range B3:B9 (second argument). In this example, we use MATCH to return an exact match so we set the third argument to 0.

◆ INDEX

The INDEX function below returns a specific value in a one-dimensional range.

	COUNTIF	:	X	✓	f _x	=INDEX(E3:E9,5)	H	I	J
1									
2	ID	First Name	Last Name	Salary		ID			
3	72	Emily	Smith	\$64,901		Salary	\$58,339		
4	66	James	Anderson	\$70,855					
5	14	Mia	Clark	\$188,657					
6	30	John	Lewis	\$97,566					
7	53	Jessica	Walker	\$58,339					
8	56	Mark	Reed	\$125,180					
9	79	Richard	Lopez	\$91,632					
10									

Explanation: the INDEX function returns the 5th value (second argument) in the range E3:E9 (first argument).

◆ INDEX and MATCH

Replace the value 5 in the INDEX function (see previous example) with the MATCH function (see first example) to look up the salary of ID 53.

	H3	:	X	✓	f _x	=INDEX(E3:E9,MATCH(H2,B3:B9,0))	H	I	J
1									
2	ID	First Name	Last Name	Salary		ID			
3	72	Emily	Smith	\$64,901		Salary	\$58,339		
4	66	James	Anderson	\$70,855					
5	14	Mia	Clark	\$188,657					
6	30	John	Lewis	\$97,566					
7	53	Jessica	Walker	\$58,339					
8	56	Mark	Reed	\$125,180					
9	79	Richard	Lopez	\$91,632					
10									

Explanation: the MATCH function returns position 5. The INDEX function needs position 5. It's a perfect combination. If you like, you can also use the [VLOOKUP function](#). It's up to you. However, you'll need INDEX and MATCH to perform advanced lookups, as we will see next.

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◆ Two-way Lookup

The INDEX function can also return a specific value in a two-dimensional range. For example, use INDEX and MATCH in Excel to perform a [two-way lookup](#).

G5		:	=INDEX(B2:D13,MATCH(G2,A2:A13,0),MATCH(G3,B1:D1,0))						
	A	B	C	D	E	F	G	H	I
1		Chocolate	Strawberry	Vanilla					
2	Jan		544	639	189		Month	Feb	
3	Feb		217	719	679		Flavour	Chocolate	
4	Mar		810	178	810				
5	Apr		567	926	929	Sales	217		
6	May		745	230	364				
7	Jun		298	820	947				
8	Jul		457	522	832				
9	Aug		495	500	239				
10	Sep		871	391	529				
11	Oct		585	225	791				
12	Nov		478	262	540				
13	Dec		741	883	809				
14									

◆ Case-sensitive Lookup

By default, the VLOOKUP function performs a case-insensitive lookup. However, you can use INDEX, MATCH and EXACT in Excel to perform a [case-sensitive lookup](#).

G3		:	X ✓ f _x	{=INDEX(D3:D9,MATCH(TRUE,EXACT(G2,B3:B9),0))}						
	A	B	C	D	E	F	G	H	I	
1										
2		First Name	Last Name	Salary		First Name	MIA			
3		Emily	Smith	\$64,901		Salary	\$125,180			
4		James	Anderson	\$70,855						
5		Mia	Clark	\$188,657						
6		John	Lewis	\$97,566						
7		Jessica	Walker	\$58,339						
8	✓	MIA	Reed	\$125,180						
9		Richard	Lopez	\$91,632						
10										

Note: the formula correctly looks up the salary of MIA Reed, not Mia Clark.

◆ Left Lookup

The VLOOKUP function only looks to the right. No worries, you can use INDEX and MATCH in Excel to perform a [left lookup](#).

B2 : $=\text{INDEX}(\$E\$4:\$E\$7,\text{MATCH}(A2,\$G\$4:\$G\$7,0))$

	A	B	C	D	E	F	G	H	I
1	ID	Product							
2	104	Printer							
3	103			Product	Brand	ID			
4	104			Computer	Dell	101			
5	101			Keyboard	Logitech	102			
6	102			Mouse	Logitech	103			
7	103			Printer	HP	104			
8	101								
9	104								
10	101								
11	102								
12									

Note: when we drag this formula down, the absolute references ($\$E\$4:\$E\7 and $\$G\$4:\$G\7) stay the same, while the relative reference (A2) changes to A3, A4, A5, etc.

◆ Two-column Lookup

Do you want to look up a value based on multiple criteria? Use INDEX and MATCH in Excel to perform a [two-column lookup](#).

G4 : $\{\text{=INDEX}(D3:D9,\text{MATCH}(G2&G3,B3:B9&C3:C9,0))\}$

	A	B	C	D	E	F	G	H	I
1									
2	First Name	Last Name	Salary			First Name	James		
3	James	Smith	\$64,901			Last Name	Clark		
4	James	Anderson	\$70,855			Salary	\$188,657		
5	James	Clark	\$188,657						
6	John	Lewis	\$97,566						
7	John	Walker	\$58,339						
8	Mark	Reed	\$125,180						
9	Richard	Lopez	\$91,632						
10									

Note: the array formula above looks up the salary of James Clark, not James Smith, not James Anderson.

◆ Closest Match

To find the [closest match](#) to a target value in a data column, use INDEX, MATCH, ABS and MIN in Excel.

F3 : $\{\text{=INDEX}(B3:B9,\text{MATCH}(\text{MIN}(\text{ABS}(C3:C9-F2)),\text{ABS}(C3:C9-F2),0))\}$

	A	B	C	D	E	F	G	H	I	J
1										
2	Name	Date			Target	720				

	Name	Data	Target	Result
3	Emily	681	Match	James
4	James	734		
5	Mia	683		
6	John	704		
7	Jessica	698		
8	Mark	736		
9	Richard	703		
10				

◆ XLOOKUP

If you have Excel 365 or Excel 2021, use [XLOOKUP](#) instead of INDEX and MATCH. The XLOOKUP function is easier to use and has some additional advantages.

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