

1. Use INDEX and MATCH to find the sales for Product C in March.

J2		fx		=INDEX(D2:F7, MATCH(B4, B2:B7, 0), MATCH("Mar Sales", D1:F1, 0))					
A	B	C	D	E	F	G	H	I	J
Product ID	Product	category	Jan sales	feb sales	mar sales			product	sales
101	PROD A	Electronics	120	130	140			Prod C	220
102	PROD B	furniture	150	160	170				
103	PROD C	Electronics	200	210	220				
104	PROD D	clothing	90	100	110				
105	PROD E	furniture	220	230	240				
106	PROD F	Electronics	130	140	150				

Formula: =INDEX(D2:F7, MATCH(B4, B2:B7, 0), MATCH("Mar Sales", D1:F1, 0))

2. Use INDEX and MATCH to find the category for Product E.

J2		fx		=INDEX(C2:C7, MATCH("PROD E", B2:B7, 0))						
	A	B	C	D	E	F	G	H	I	J
1	Product ID	Product	category	Jan sales	feb sales	mar sales			product	sales
2	101	PROD A	Electronics	120	130	140			Prod E	furniture
3	102	PROD B	furniture	150	160	170				
4	103	PROD C	Electronics	200	210	220				
5	104	PROD D	clothing	90	100	110				
6	105	PROD E	furniture	220	230	240				
7	106	PROD F	Electronics	130	140	150				
8										

Formula: =MAX(INDEX(D2:F7, MATCH("PROD B", B2:B7, 0), 0))

3. Use INDEX and MATCH to find the maximum sales for Product B across all months.

J2		=MAX(INDEX(D2:F7, MATCH("PROD B", B2:B7, 0), 0))								
	A	B	C	D	E	F	G	H	I	J
1	Product ID	Product	category	Jan sales	feb sales	mar sales			product	sales
2	101	PROD A	Electronics	120	130	140			Prod B	170
3	102	PROD B	furniture	150	160	170				
4	103	PROD C	Electronics	200	210	220				
5	104	PROD D	clothing	90	100	110				
6	105	PROD E	furniture	220	230	240				
7	106	PROD F	Electronics	130	140	150				

Formula: =MAX(INDEX(D2:F7,MATCH(H2,B2:B7,0),0))

4. Use INDEX and MATCH to find the month with the maximum sales for Product A.

J2		=INDEX(D1:F1, MATCH(MAX(INDEX(D2:F7, MATCH("PROD A",								
	A	B	C	D	E	F	G	H	I	J
1	Product ID	Product	category	Jan sales	feb sales	mar sales			product	max sale month
2	101	PROD A	Electronics	120	130	140			Prod A	mar sales
3	102	PROD B	furniture	150	160	170				
4	103	PROD C	Electronics	200	210	220				
5	104	PROD D	clothing	90	100	110				
6	105	PROD E	furniture	220	230	240				
7	106	PROD F	Electronics	130	140	150				
8										

Formula: =INDEX(D1:F1, MATCH(MAX(INDEX(D2:F7, MATCH("PROD A", B2:B7, 0), 0)), INDEX(D2:F7, MATCH("PROD A", B2:B7, 0), 0), 0))

5. Use INDEX, MATCH, and SUMIF to sum the sales for all products in the "Electronics" category for April.

J2 =SUMIF(C2:C7, "Electronics", G2:G7)

	A	B	C	D	E	F	G	H	I	J
1	Product ID	Product	category	Jan sales	feb sales	mar sales	April sales		product	sale
2	101	PROD A	Electronics	120	130	140	100		electroni	350
3	102	PROD B	furniture	150	160	170	120			
4	103	PROD C	Electronics	200	210	220	150			
5	104	PROD D	clothing	90	100	110	140			
6	105	PROD E	furniture	220	230	240	130			
7	106	PROD F	Electronics	130	140	150	100			

Formula: =SUMIF(C2:C7, "Electronics", G2:G7)

6. Use INDEX and MATCH to calculate the average sales for Product D across all months.

SUM =AVERAGE(INDEX(D2:F7, MATCH(B5, B2:B7, 0), 0))

	A	B	C	D	E	F	G	H	I	J
1	Product ID	Product	category	Jan sales	feb sales	mar sales			product	sale
2	101	PROD A	Electronics	120	130	140			Prod t d	B2:B7, 0), 0))
3	102	PROD B	furniture	150	160	170				
4	103	PROD C	Electronics	200	210	220				
5	104	PROD D	clothing	90	100	110				
6	105	PROD E	furniture	220	230	240				
7	106	PROD F	Electronics	130	140	150				
8										
9										
10										

Formula: =AVERAGE(INDEX(D2:F7, MATCH(B5, B2:B7, 0), 0))

7. Use INDEX and MATCH to find the sales for Product ID 105 in May.

J2 fx =INDEX(G2:G7, MATCH(105, A2:A7, 0))

	A	B	C	D	E	F	G	H	I	J
1	Product ID	Product	category	Jan sales	feb sales	mar sales	May sales		product	sale
2	101	PROD A	Electronics	120	130	140	120		105	90
3	102	PROD B	furniture	150	160	170	100			
4	103	PROD C	Electronics	200	210	220	140			
5	104	PROD D	clothing	90	100	110	100			
6	105	PROD E	furniture	220	230	240	90			
7	106	PROD F	Electronics	130	140	150	135			
8										

Formula: =INDEX(H2:H7, MATCH(105, A2:A7, 0))

8. Use INDEX and MATCH to create a dynamic lookup where the user can input a product and a month, and the formula returns the corresponding sales.

I2 J2 fx PROD B

	A	B	C	D	E	F	G	H	I	J	K
1	Product ID	Product	category	Jan sales	feb sales	mar sales			product	month	sales
2	101	PROD A	Electronics	120	130	140			PROD B	feb sales	160
3	102	PROD B	furniture	150	160	170					
4	103	PROD C	Electronics	200	210	220					
5	104	PROD D	clothing	90	100	110					
6	105	PROD E	furniture	220	230	240					
7	106	PROD F	Electronics	130	140	150					
8											

I	J	K
product	month	sales
PROD B	feb sales	160

Formula: =INDEX(D2:F7, MATCH(I2,B2:B7, 0), MATCH(J2, D1:F1, 0))

