

DATA VISUALIZATION

INDEX AND MATCH ASSIGNMENT

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales
101	PROD A	Electronics	120	130	140
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

1. Use INDEX and MATCH to find the sales for Product C in March.
2. Use INDEX and MATCH to find the category for Product E.
3. Use INDEX and MATCH to find the maximum sales for Product B across all months.
4. Use INDEX and MATCH to find the month with the maximum sales for Product A.
5. Use INDEX, MATCH, and SUMIF to sum the sales for all products in the "Electronics" category for April.
6. Use INDEX and MATCH to calculate the average sales for Product D across all months.
7. Use INDEX and MATCH to find the sales for ProductID 105 in May
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

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

Product_Sales_Data - Excel

dusa nehashri

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

	A	B	C	D	E	F	G
1	ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Product C Sales in March
2	101	PROD A	Electronics	120	130	140	220
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							

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

[illegible]

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

Product_Sales_Details - Excel

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

	A	B	C	D	E	F	G	H	I	J
1	ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Product C Sales in March	category for Product E.	Max. of Product B	
2	101	PROD A	Electronics	120	130	140	220	Furniture	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				

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

Product_Sales_Details - Excel

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J2 =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))

	A	B	C	D	E	F	G	H	I	J	K
1	ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Product C Sales in March	category for Product E.	Max. of Product B	Max. Sales Pro. A in what month	
2	101	PROD A	Electronics	120	130	140	220	Furniture	170	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					

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

index match

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P2 =SUMIF(C2:C7, C4, G2:G7)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	April Sales	1st ques		2ndques		3rd ques		4rd ques		5th ques
2	101	PROD A	Electronics	120	130	140	150	220		Furniture		170		Mar Sales		560
3	102	PROD B	Furniture	150	160	170	200									
4	103	PROD C	Electronics	200	210	220	230									
5	104	PROD D	Clothing	90	100	110	230		8th quest							
6	105	PROD E	Furniture	220	230	240	240		Mar Sales	PROD B	170					
7	106	PROD F	Electronics	130	140	150	180				170					

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

[illegible]

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

[illegible]

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

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K5 $\text{=INDEX}(D2:G7, \text{MATCH}(J5, B2:B7, 0), \text{MATCH}(I5, D1:G1, 0))$

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	April Sales	1st ques		2ndques		3rd ques		4rd ques
2	101	PROD A	Electronics	120	130	140	150	220		Furniture		170		Mar Sale
3	102	PROD B	Furniture	150	160	170	200							
4	103	PROD C	Electronics	200	210	220	230		8th quest					
5	104	PROD D	Clothing	90	100	110	230		Mar Sales	PROD B	170			
6	105	PROD E	Furniture	220	230	240	240							
7	106	PROD F	Electronics	130	140	150	180				170			