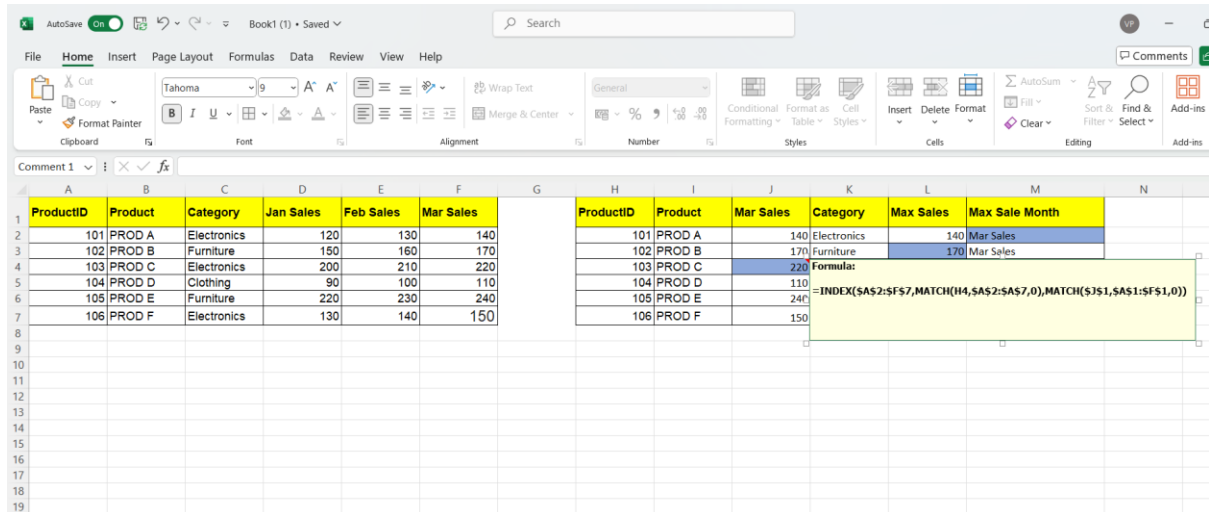


Lab Assignment - 4

(Index and Match)

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

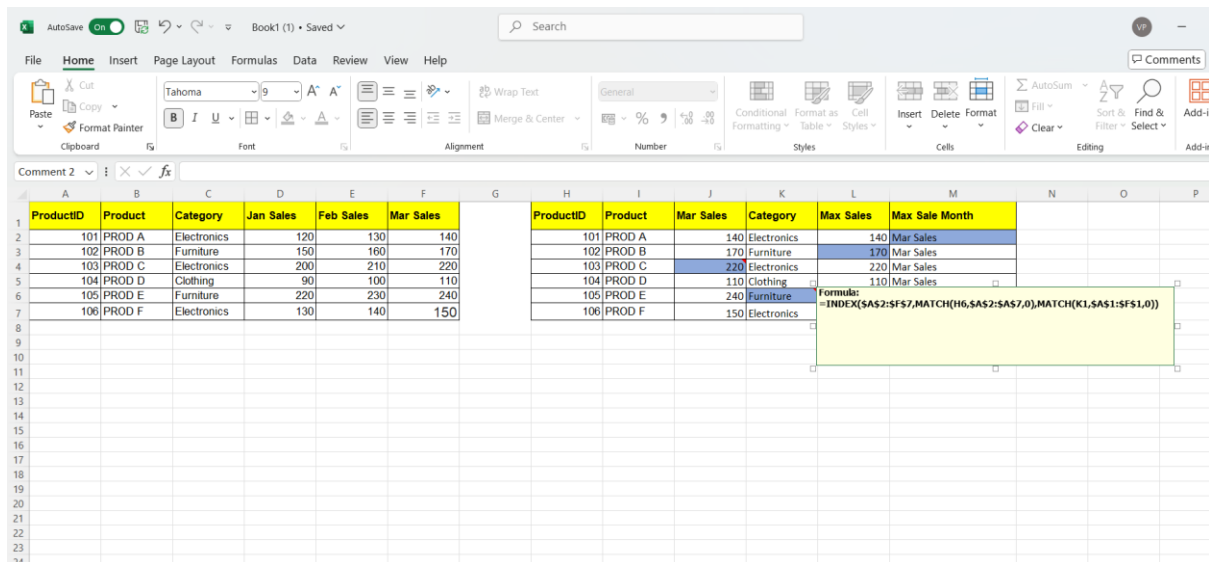


ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales
101	PROD A	Electronics	120	130	140
102	PROD B	Furniture	150	160	170
103	PROD C	Electronics	200	210	220
104	PROD D	Clothing	90	100	110
105	PROD E	Furniture	220	230	240
106	PROD F	Electronics	130	140	150

ProductID	Product	Mar Sales	Category	Max Sales	Max Sale Month
101	PROD A	140	Electronics	140	Mar Sales
102	PROD B	170	Furniture	170	Mar Sales
103	PROD C	220	Electronics	220	Mar Sales
104	PROD D	110	Clothing	110	Mar Sales
105	PROD E	240	Furniture	240	Mar Sales
106	PROD F	150	Electronics	150	Mar Sales

Formula: `=INDEX(A2:F7,MATCH(H4,A2:A7,0),MATCH(J1,A1:F1,0))`

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



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

ProductID	Product	Mar Sales	Category	Max Sales	Max Sale Month
101	PROD A	140	Electronics	140	Mar Sales
102	PROD B	170	Furniture	170	Mar Sales
103	PROD C	220	Electronics	220	Mar Sales
104	PROD D	110	Clothing	110	Mar Sales
105	PROD E	240	Furniture	240	Mar Sales
106	PROD F	150	Electronics	150	Mar Sales

Formula: `=INDEX(A2:F7,MATCH(H6,A2:A7,0),MATCH(K1,A1:F1,0))`

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

Excel interface showing the formula bar with the formula: `=INDEX(D3:F3,MATCH(MAX(D3:F3),D3:F3,0))`

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

ProductID	Product	Mar Sales	Category	Max Sales	Max Sale Month
101	PROD A	140	Electronics	140	Mar Sales
102	PROD B	170	Furniture	170	Mar Sales
103	PROD C	220	Electronics	220	Mar Sales
104	PROD D	110	Clothing	110	Mar Sales
105	PROD E	240	Furniture	240	Mar Sales
106	PROD F	150	Electronics	150	Mar Sales

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

Excel interface showing the formula bar with the formula: `=INDEX(D1:F1,MATCH(MAX(D2:F2),D2:F2,0))`

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

ProductID	Product	Mar Sales	Category	Max Sales	Max Sale Month
101	PROD A	140	Electronics	140	Mar Sales
102	PROD B	170	Furniture	170	Mar Sales
103	PROD C	220	Electronics	220	Mar Sales
104	PROD D	110	Clothing	110	Mar Sales
105	PROD E	240	Furniture	240	Mar Sales
106	PROD F	150	Electronics	150	Mar Sales

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

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales
101	PROD A	Electronics	120	130	140	150	110
102	PROD B	Furniture	150	160	170	170	140
103	PROD C	Electronics	200	210	220	160	160
104	PROD D	Clothing	90	100	110	120	180
105	PROD E	Furniture	220	230	240	190	130
106	PROD F	Electronics	130	140	150	140	170

ProductID	Product	Apr Sales
101	PROD A	450
102	PROD B	
103	PROD C	
104	PROD D	
105	PROD E	
106	PROD F	

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

Product	Category	Jan Sales	Feb Sales	Mar Sales
PROD A	Electronics	120	130	140
PROD B	Furniture	150	160	170
PROD C	Electronics	200	210	220
PROD D	Clothing	90	100	110
PROD E	Furniture	220	230	240
PROD F	Electronics	130	140	150

ProductID	Product	Mar Sales	Category	Max Sales	Max Sale Month	Average Sales for Product
101	PROD A	140	Electronics	140	Mar Sales	130
102	PROD B	170	Furniture	170	Mar Sales	160
103	PROD C	220	Electronics	220	Mar Sales	210
104	PROD D	110	Clothing	110	Mar Sales	100
105	PROD E	240	Furniture	240	Mar Sales	220
106	PROD F	150	Electronics	150	Mar Sales	140

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

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales
101	PROD A	Electronics	120	130	140	150	110
102	PROD B	Furniture	150	160	170	170	140
103	PROD C	Electronics	200	210	220	160	160
104	PROD D	Clothing	90	100	110	120	180
105	PROD E	Furniture	220	230	240	190	130
106	PROD F	Electronics	130	140	150	140	170

ProductID	Product	May Sales
101	PROD A	110
102	PROD B	140
103	PROD C	160
104	PROD D	180
105	PROD E	130
106	PROD F	170

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.

AutoSaveOffIndex vs MatchSearch

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ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Product	Month	Sales
101	PROD A	Electronics	120	130	140	PROD B	Mar Sales	170
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(H2,B2:B7,0),MATCH(I2,D1:F1,0))