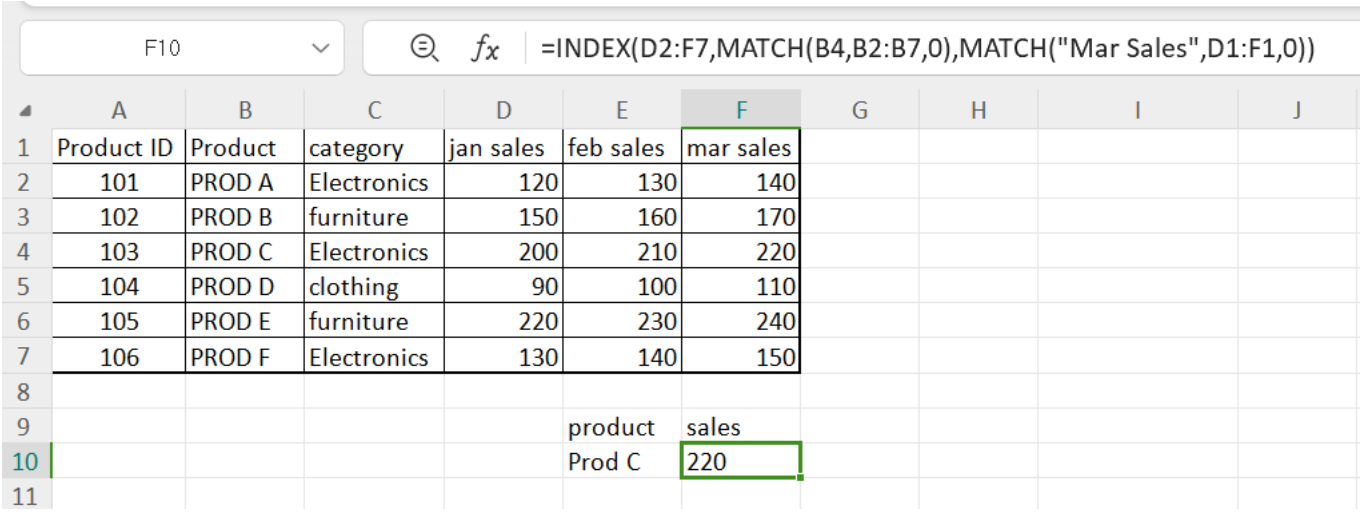
Questions:-

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 Product ID 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

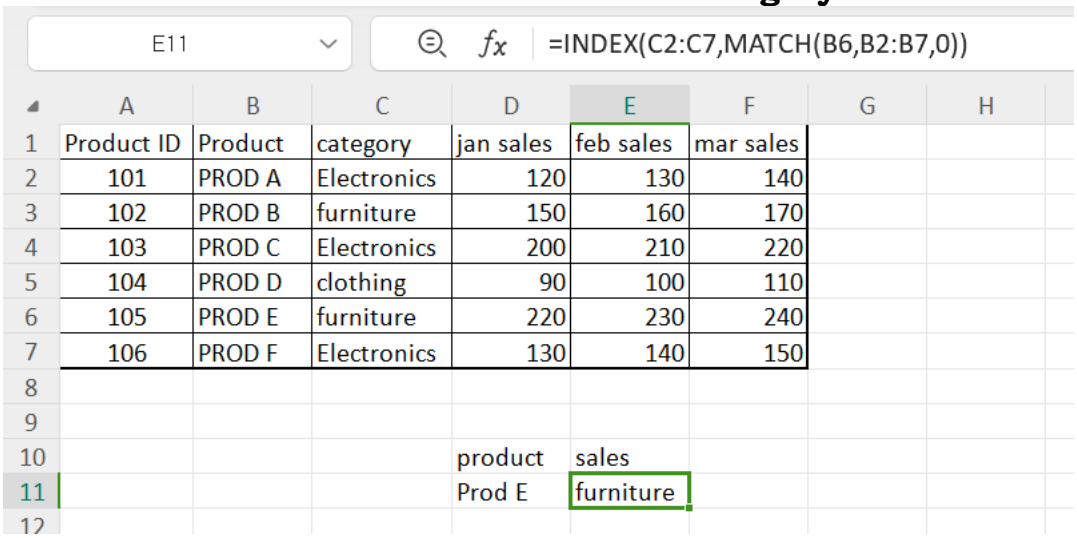
1.Use INDEX and MATCH to find the sales for Product C in March.



	A	B	C	D	E	F	G	H	I	J
1	Product ID	Product	category	jan sales	feb sales	mar sales				
2	101	PROD A	Electronics	120	130	140				
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					product	sales				
10					Prod C	220				
11										

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

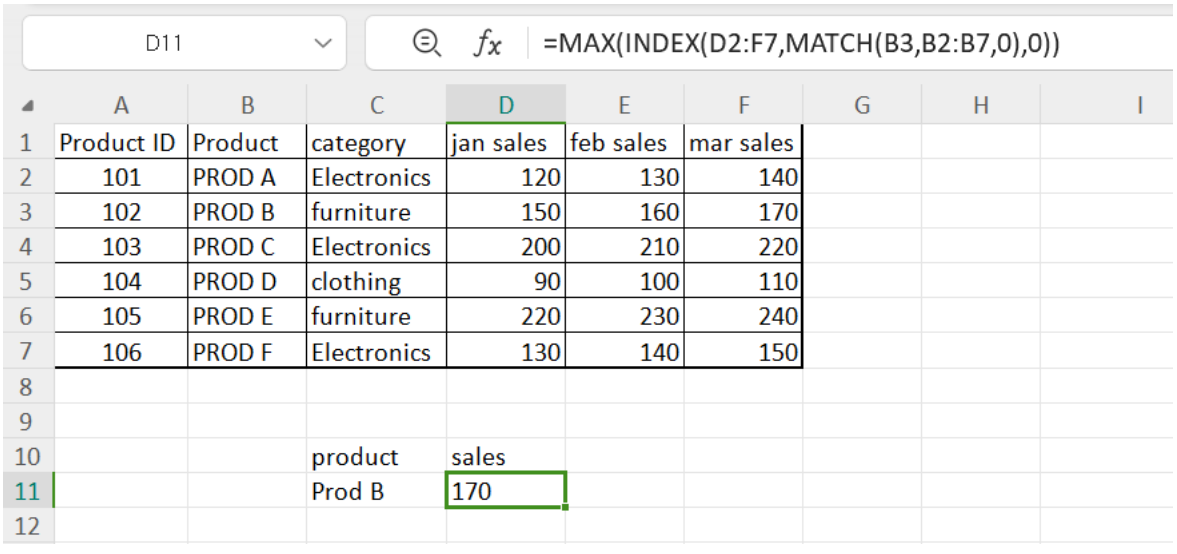
2. Use INDEX and MATCH to find the category for Product E.



	A	B	C	D	E	F	G	H
1	Product ID	Product	category	jan sales	feb sales	mar sales		
2	101	PROD A	Electronics	120	130	140		
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				product	sales			
11				Prod E	furniture			
12								

Formula: =INDEX(C2:C7,MATCH(B6,B2:B7,0))

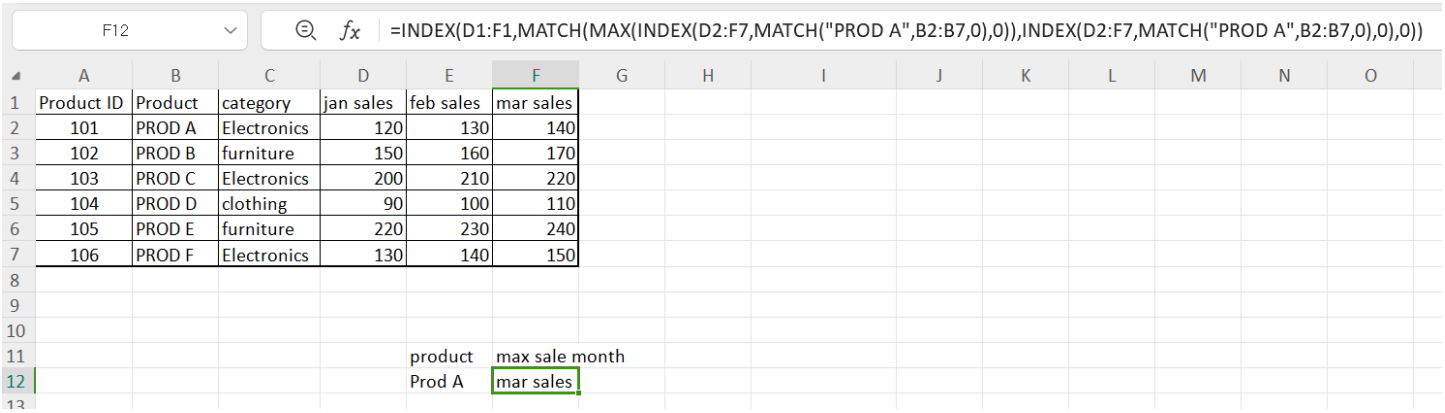
3. Use INDEX and MATCH to find the maximum sales for Product B across all months.



	A	B	C	D	E	F	G	H	I
1	Product ID	Product	category	jan sales	feb sales	mar sales			
2	101	PROD A	Electronics	120	130	140			
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			product	sales					
11			Prod B	170					
12									

Formula: =MAX(INDEX(D2:F7,MATCH(B3,B2:B7,0),0))

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



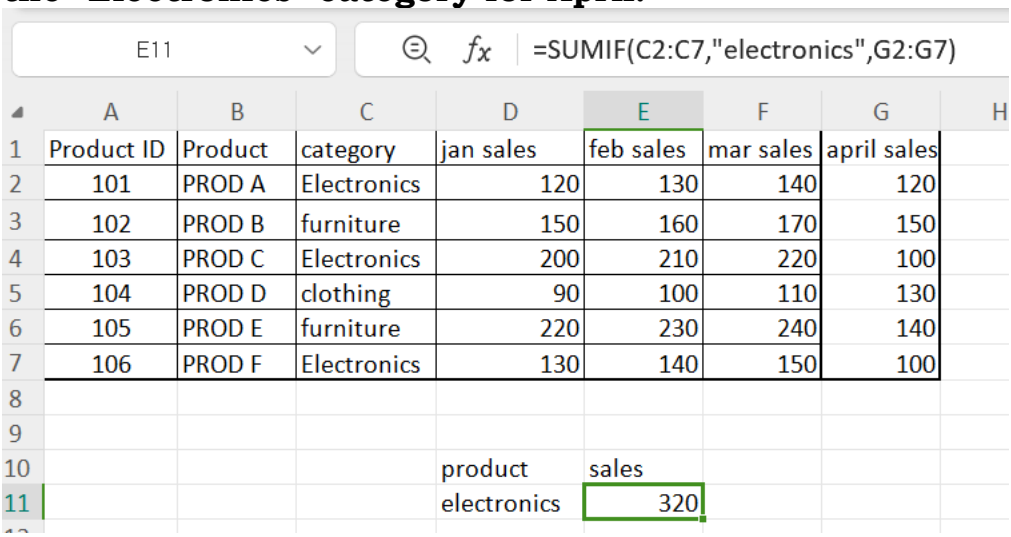
F12 | =INDEX(D1:F1,MATCH(MAX(INDEX(D2:F7,MATCH("PROD A",B2:B7,0),0)),INDEX(D2:F7,MATCH("PROD A",B2:B7,0),0),0))

Product ID	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

product	max sale month
Prod A	mar sales

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.



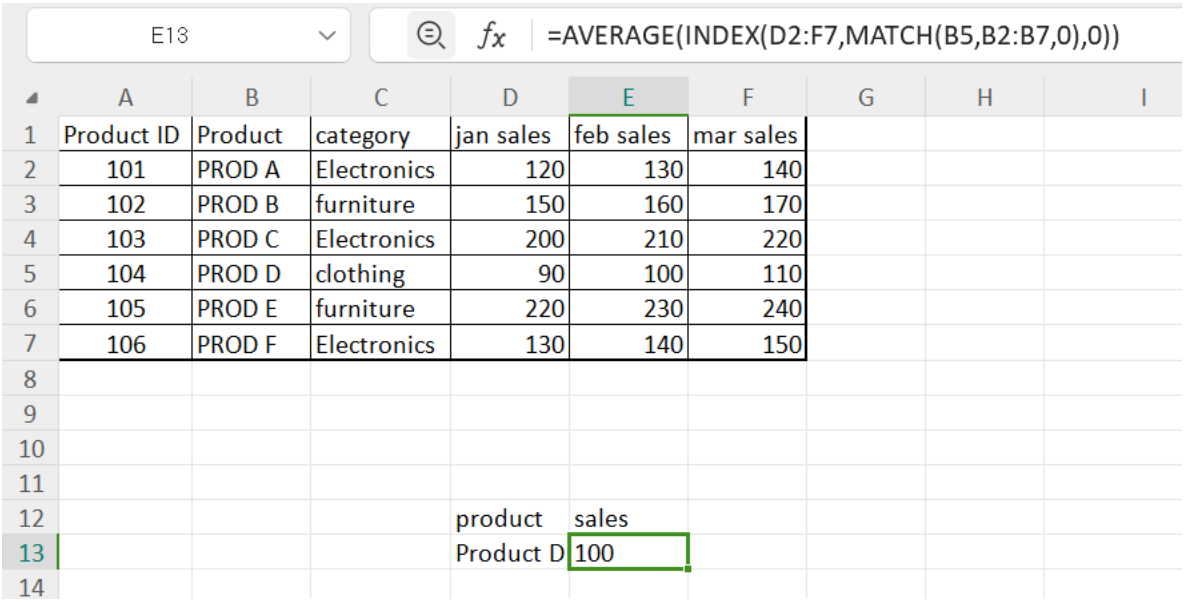
E11 | =SUMIF(C2:C7,"electronics",G2:G7)

Product ID	Product	category	jan sales	feb sales	mar sales	april sales
101	PROD A	Electronics	120	130	140	120
102	PROD B	furniture	150	160	170	150
103	PROD C	Electronics	200	210	220	100
104	PROD D	clothing	90	100	110	130
105	PROD E	furniture	220	230	240	140
106	PROD F	Electronics	130	140	150	100

product	sales
electronics	320

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

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

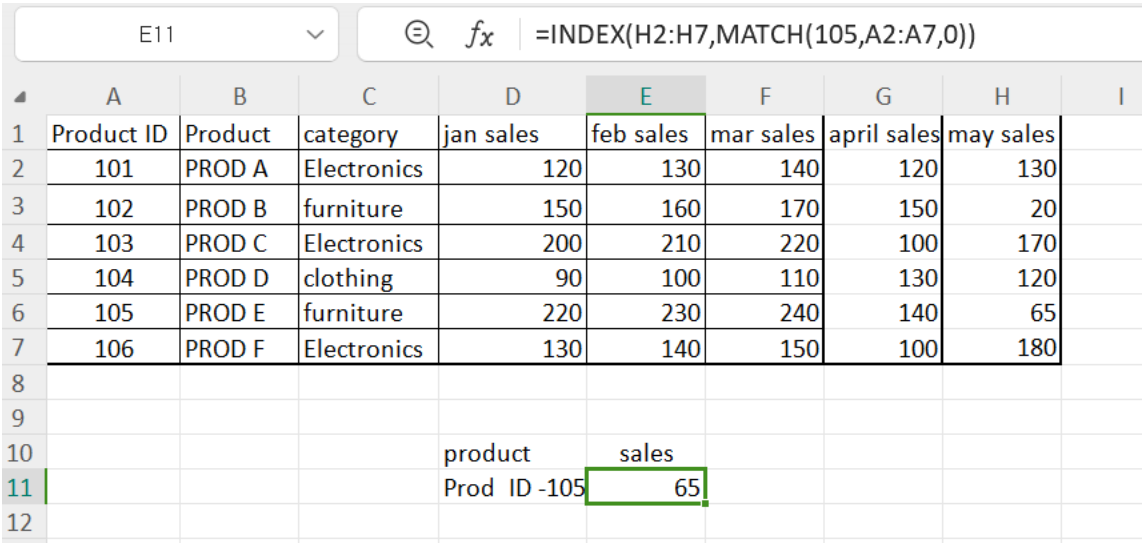


Product ID	Product	category	jan sales	feb sales	mar sales
101	PROD A	Electronics	120	130	140
102	PROD B	furniture	150	160	170
103	PROD C	Electronics	200	210	220
104	PROD D	clothing	90	100	110
105	PROD E	furniture	220	230	240
106	PROD F	Electronics	130	140	150

product	sales
Product D	100

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.



Product ID	Product	category	jan sales	feb sales	mar sales	april sales	may sales
101	PROD A	Electronics	120	130	140	120	130
102	PROD B	furniture	150	160	170	150	20
103	PROD C	Electronics	200	210	220	100	170
104	PROD D	clothing	90	100	110	130	120
105	PROD E	furniture	220	230	240	140	65
106	PROD F	Electronics	130	140	150	100	180

product	sales
Prod ID -105	65

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.

F11 =INDEX(D2:H7,MATCH(D11,B2:B7,0),MATCH(E11,D1:H1,0))

	A	B	C	D	E	F	G	H	I	J
1	Product ID	Product	category	jan sales	feb sales	mar sales	april sales	may sales		
2	101	PROD A	Electronics	120	130	140	120	130		
3	102	PROD B	furniture	150	160	170	150	20		
4	103	PROD C	Electronics	200	210	220	100	170		
5	104	PROD D	clothing	90	100	110	130	120		
6	105	PROD E	furniture	220	230	240	140	65		
7	106	PROD F	Electronics	130	140	150	100	180		
8										
9										
10				Product	Month	Sales				
11				PROD B	feb sales	160				
12										

Formula: =INDEX(D2:H7,MATCH(D11,B2:B7,0),MATCH(E11,D1:H1,0))