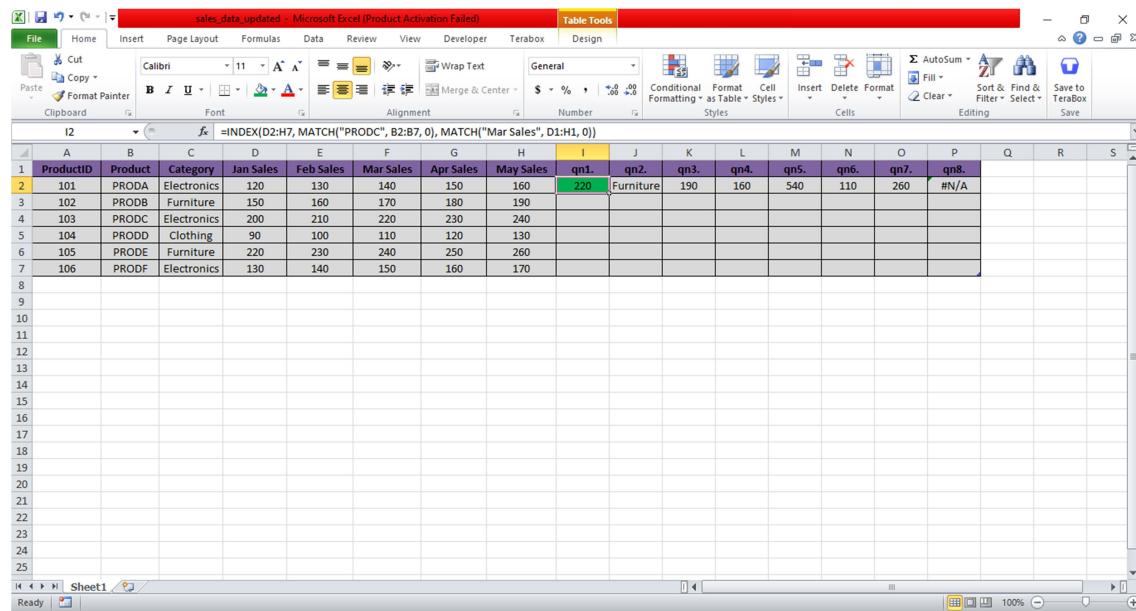


Lab Assignment 4

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

Ans. =INDEX(D2:H7, MATCH("PRODC", B2:B7, 0),
MATCH("Mar Sales", D1:H1, 0))



ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	qn1.	qn2.	qn3.	qn4.	qn5.	qn6.	qn7.	qn8.	
2	101	PRODA	Electronics	120	130	140	150	160	220	Furniture	190	160	540	110	260	#N/A
3	102	PRODB	Furniture	150	160	170	180	190								
4	103	PRODC	Electronics	200	210	220	230	240								
5	104	PRODD	Clothing	90	100	110	120	130								
6	105	PRODE	Furniture	220	230	240	250	260								
7	106	PRODF	Electronics	130	140	150	160	170								

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

Ans. =INDEX(C2:C7, MATCH("PRODE", B2:B7, 0))

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	qn1.	qn2.	qn3.	qn4.	qn5.	qn6.	qn7.	qn8.
2	PRODA	Electronics	120	130	140	150	160	220	Furniture	190	160	540	110	260	#N/A
3	102	PRODE	Furniture	150	160	170	180	190							
4	103	PRODC	Electronics	200	210	220	230	240							
5	104	PRODD	Clothing	90	100	110	120	130							
6	105	PRODE	Furniture	220	230	240	250	260							
7	106	PRODF	Electronics	130	140	150	160	170							

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

Ans. =MAX(INDEX(D2:H7, MATCH("PRODB", B2:B7, 0), 0))

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	qn1.	qn2.	qn3.	qn4.	qn5.	qn6.	qn7.	qn8.
2	PRODA	Electronics	120	130	140	150	160	220	Furniture	190	160	540	110	260	#N/A
3	102	PRODE	Furniture	150	160	170	180	190							
4	103	PRODC	Electronics	200	210	220	230	240							
5	104	PRODD	Clothing	90	100	110	120	130							
6	105	PRODE	Furniture	220	230	240	250	260							
7	106	PRODF	Electronics	130	140	150	160	170							

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

Ans. =MAX(INDEX(D2:H7, MATCH("PRODA", B2:B7, 0), 0))

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

Ans. =SUMIF(C2:C7, "Electronics", INDEX(D2:H7, 0, MATCH("Apr Sales", D1:H1, 0)))

sales_data_updated - Microsoft Excel (Product Activation Failed)

The screenshot shows a Microsoft Excel spreadsheet titled "sales_data_updated". The ribbon tabs are visible at the top, including File, Home, Insert, Page Layout, Formulas, Data, Review, Developer, Terabox, and Design. The "Home" tab is selected. The toolbar contains various icons for cutting, pasting, and formatting. The main area displays a table with data and formulas.

Table Tools ribbon tab is selected.

Formulas Bar: =SUMIF(C2:C7, "Electronics", INDEX(D2:H7, 0, MATCH("Apr Sales", D1:H1, 0)))

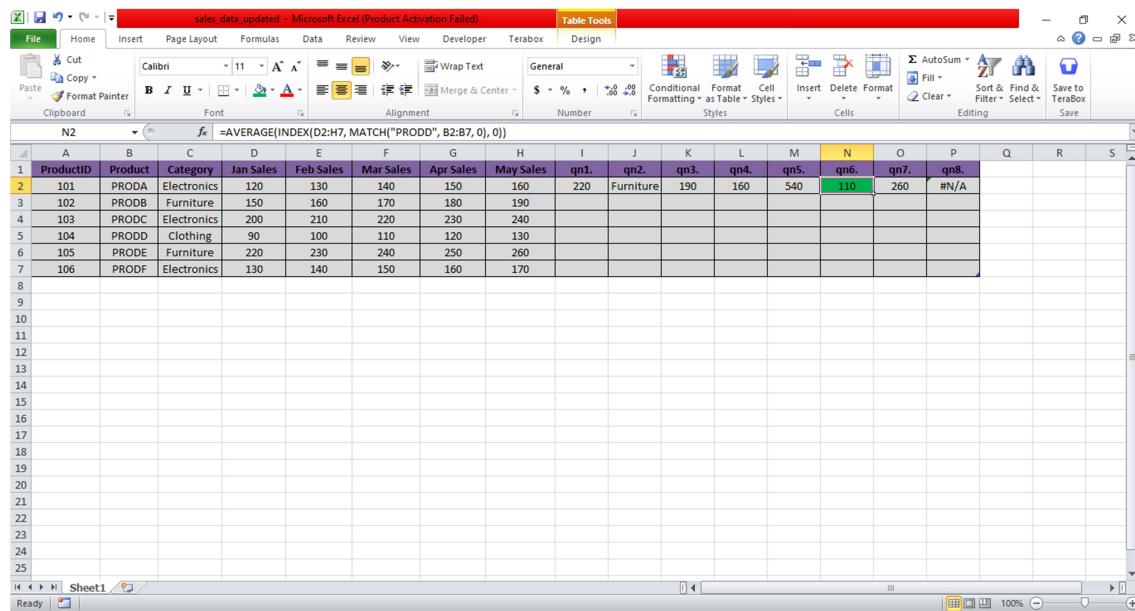
Table Structure:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	qn1.	qn2.	qn3.	qn4.	qn5.	qn6.	qn7.	qn8.			
2	101	PRODA	Electronics	120	130	140	150	160	220	Furniture	190	160	540	110	260	#N/A			
3	102	PRODB	Furniture	150	160	170	180	190											
4	103	PRODC	Electronics	200	210	220	230	240											
5	104	PRODD	Clothing	90	100	110	120	130											
6	105	PRODE	Furniture	220	230	240	250	260											
7	106	PRODF	Electronics	130	140	150	160	170											
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Bottom status bar: Sheet1

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

Ans. =AVERAGE(INDEX(D2:H7, MATCH("PRODD", B2:B7, 0), 0))



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	qn1.	qn2.	qn3.	qn4.	qn5.	qn6.	qn7.	qn8.
2	101	PRODA	Electronics	120	130	140	150	160	220	Furniture	190	160	540	110	#N/A
3	102	PRODB	Furniture	150	160	170	180	190							
4	103	PRODC	Electronics	200	210	220	230	240							
5	104	PRODD	Clothing	90	100	110	120	130							
6	105	PRODE	Furniture	220	230	240	250	260							
7	106	PRODF	Electronics	130	140	150	160	170							

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

Ans. =INDEX(D2:H7, MATCH(105, A2:A7, 0),
MATCH("May Sales", D1:H1, 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.

**Ans. =INDEX(D2:H7, MATCH("product", B2:B7, 0),
MATCH("month_sales", D1:H1, 0))**