

### Worksheet: Sales Data

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales
101	PROD A	Electronics	120	130	140	150	160
102	PROD B	Furniture	150	160	170	180	190
103	PROD C	Electronics	200	210	220	230	240
104	PROD D	Clothing	90	100	110	120	130
105	PROD E	Furniture	220	230	240	250	260
106	PROD F	Electronics	130	140	150	160	170

- Use INDEX and MATCH to find the sales for Product C in March.  
 =INDEX(D2:H7, MATCH("PRODC", B2:B7, 3), MATCH("Mar Sales", D1:H1, 3))

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	
101	PROD A	Electronics	120	130	140	150	160	220
102	PROD B	Furniture	150	160	170	180	190	
103	PROD C	Electronics	200	210	220	230	240	
104	PROD D	Clothing	90	100	110	120	130	
105	PROD E	Furniture	220	230	240	250	260	
106	PROD F	Electronics	130	140	150	160	170	

- Use INDEX and MATCH to find the category for Product E.  
 =INDEX(C2:C7, MATCH("PRODE", B2:B7, 0))

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	
101	PROD A	Electronics	120	130	140	150	160	Furniture
102	PROD B	Furniture	150	160	170	180	190	
103	PROD C	Electronics	200	210	220	230	240	
104	PROD D	Clothing	90	100	110	120	130	
105	PROD E	Furniture	220	230	240	250	260	
106	PROD F	Electronics	130	140	150	160	170	

3. Use INDEX and MATCH to find the maximum sales for Product B across all months.  
 =MAX(INDEX(D2:H7, MATCH("PRODB", B2:B7, 0), 0))

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	
101	PROD A	Electronics	120	130	140	150	160	190
102	PROD B	Furniture	150	160	170	180	190	
103	PROD C	Electronics	200	210	220	230	240	
104	PROD D	Clothing	90	100	110	120	130	
105	PROD E	Furniture	220	230	240	250	260	
106	PROD F	Electronics	130	140	150	160	170	

4. Use INDEX and MATCH to find the month with the maximum sales for Product A.  
 =INDEX(D1:H1, MATCH(MAX(INDEX(D2:H7, MATCH("PRODA", B2:B7, 0), 0)), INDEX(D2:H7, MATCH("PRODA", B2:B7, 0), 0), 0))

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	
101	PROD A	Electronics	120	130	140	150	160	May Sales
102	PROD B	Furniture	150	160	170	180	190	
103	PROD C	Electronics	200	210	220	230	240	
104	PROD D	Clothing	90	100	110	120	130	
105	PROD E	Furniture	220	230	240	250	260	
106	PROD F	Electronics	130	140	150	160	170	

5. Use INDEX, MATCH, and SUMIF to sum the sales for all products in the "Electronics" category for April.  
 =SUMIF(C2:C7, "Electronics", INDEX(D2:H7, 0, MATCH("Apr Sales", D1:H1, 0)))

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	
101	PROD A	Electronics	120	130	140	150	160	540
102	PROD B	Furniture	150	160	170	180	190	
103	PROD C	Electronics	200	210	220	230	240	
104	PROD D	Clothing	90	100	110	120	130	
105	PROD E	Furniture	220	230	240	250	260	
106	PROD F	Electronics	130	140	150	160	170	

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

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

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	
101	PROD A	Electronics	120	130	140	150	160	110
102	PROD B	Furniture	150	160	170	180	190	
103	PROD C	Electronics	200	210	220	230	240	
104	PROD D	Clothing	90	100	110	120	130	
105	PROD E	Furniture	220	230	240	250	260	
106	PROD F	Electronics	130	140	150	160	170	

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

=INDEX(D11:H16, MATCH(105, A11:A16, 0), MATCH("May Sales", D10:H10, 0))

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	
101	PROD A	Electronics	120	130	140	150	160	260
102	PROD B	Furniture	150	160	170	180	190	
103	PROD C	Electronics	200	210	220	230	240	
104	PROD D	Clothing	90	100	110	120	130	
105	PROD E	Furniture	220	230	240	250	260	
106	PROD F	Electronics	130	140	150	160	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.

=INDEX(D11:H16, MATCH(J12, B11:B16, 0), MATCH(J13, D10:H10, 0))

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	
101	PROD A	Electronics	120	130	140	150	160	150
102	PROD B	Furniture	150	160	170	180	190	
103	PROD C	Electronics	200	210	220	230	240	
104	PROD D	Clothing	90	100	110	120	130	
105	PROD E	Furniture	220	230	240	250	260	
106	PROD F	Electronics	130	140	150	160	170	