

## INDEX AND MATCH

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 in 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 ID and a month, and the formula returns the corresponding sales.

ProductID	Product	Category	JanSales	FebSales	MarSales	AprSales	MaySales
101	PRODA	Electronics	120	130	140	150	160
102	PRODB	Furniture	150	160	170	180	190
103	PRODC	Electronics	200	210	220	230	240
104	PRODD	Clothing	90	100	110	120	130
105	PRODE	Furniture	220	230	240	250	260
106	PRODF	Electronics	130	140	150	160	170

1

PRODC	MarSales
	220

2

	Category
PRODE	Furniture

3

4

	Max Sales
PRODA	MaySales

5

AprSales	Total
Electronics	540

6

7

ProductID	MaySales
105	260

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

Step 1- Create a new table which consist PRODC and MarSales.

Step 2- Apply the following Formula to find Sales of march in PRODC:

PRODC	MarSales
	220

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

Step 1-Create a table which consist PRODE and Category.

Step 2- Apply the following Formula to find Category of PRODE:

=INDEX(D22:D27,MATCH(F31,C22:C27,0))

=INDEX(E22:I27,MATCH(J31,C22:C27,0))

	Category
PRODE	Furniture

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

Step 1-Create a table which consist PRODB And find the maximum sales Across All Months .

Step 2-Apply the following Formula to find the maximum sales across all months:

=MAX(INDEX(E22:I27,MATCH(J31,C22:C27,0),0))

Step 3-Apply same Formula for all months.

	Max Sales
PRODB	190

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

Step 1-Create a table which consist PRODA with Maximum sales.

Step 2-Apply the following formula to find the month with maximum sales For PRODA:

=INDEX(E21:I21,MATCH(MAX(INDEX(E22:I27,MATCH(B35,C22:C27,0),0)),INDEX(E22:I27,MATCH(B35,C22:C27,0),0)))

	Max Sales
PRODA	MaySales

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

Step 1-Create a table which consist AprilSales and Category.

Step 2-Apply the following Formula to find sum the sales for all products in the "Electronics" category:

=SUMIF(D22:D27,F35,INDEX(E22:I27,0,MATCH(F34,E21:I21,0)))

AprSales	Total
Electronics	540

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

Step 1-Create a table which consist PRODD Across all months.

Step 2-Apply the following Formula the average sales for PRODD across all months:

=AVERAGE(INDEX(E22:I27,MATCH(J35,C22:C27,0),0))

Step 3- Apply the same Formula for all months.

	Average Sales
PRODD	110

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

Step 1-Create a table which consist Product ID 105 in May.

Step 1- Create a table which consist ProductID 105 in May.

Step 2-Apply the following Formula to find the salesfor Product ID 105 in May:  
=INDEX(E18:I23,MATCH(B34,B18:B23,0),MATCH(C33,E17:I17,0))

ProductID	MaySales
105	260

# MATCH

is.  
.  
ics" category for  
nths.  
product and a

	Max Sales
PRODB	190

	Average Sales
PRODD	110



ss all months.

or Product A.

35,C22:C27,0),0

: "Electronics" category for April.

gory for April:

ross all months.