Index And Match Lab

ProductID	Product	Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales
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. Use INDEX and MATCH to find the sales for Product C in March.
Step1. Create a new table to find the sales for Product C in March.
Step2. In the First row of a new table (B25) Using the Following Formula:
      =INDEX(D6:H11,MATCH(D24,D5:H5,0),MATCH(C24,B6:B11,0))
         where **(D24),(C24)** is the cell number

PRODC	Mar Sales
	220

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

Step1. Create a new table to find the Category for Product F.
Step2. In the First row of a new table (C39) Using the Following Formula:
      =INDEX(C6:C11,MATCH(B39,B6:B11,0))
         where **(C39)** is the cell number.

	Category
PRODE	Furniture

3. Use INDEX and MATCH to find the maximum sales for Product B across all months.
Step1. Create a new table to find the maximum sales for product B Across all months.
Step2. In the second column **(C53)** of a new table Using the following Formula:
        =MAX(INDEX(D6:H11,MATCH(B53,B6:B11,0),0))
         Where **C53** is the cell number

	Max Sales
PRODB	190

4. Use INDEX and MATCH to find the month with the maximum sales for Product A.
 Step1. Create a new table to find the months with the maximum sales for product A.
Step2. In the second column **(D66)** of a new table Using the following Formula:
 =INDEX(D5:H5,MATCH(MAX(INDEX(D6:H11,MATCH(C66,B6:B11,0),0)),INDEX(D6:H11,MATCH(C66,B6:B11,0),0),0))
Where **D66** is the cell number.

	Max Sales
PRODA	May Sales

5. Use INDEX, MATCH, and SUMIF to sum the sales for all products in the "Electronics" category for April.
 Step1. Create a new table to find the sum of sales for all products in the "Electronics" category for April.
Step2. In the second column **(D80)** of a new table Using the following Formula:
=SUMIF(C6:C11,C80,INDEX(D6:H11,0,MATCH(C79,D5:H5,0)))
Where **D80** is the cell number & **C80** is the Product.

Apr Sales	Total
Electronics	540

6. Use INDEX and MATCH to calculate the average sales for Product D across all months.
 Step1. Create a new table calculate the average sales for Product D across all months.
Step2. In the second column **(D94)** of a new table Using the following Formula:
=AVERAGE(INDEX(D6:H11,MATCH(C94,B6:B11,0),0))
Where **D94** is the cell number & **C94** is the Product.

	average Sales
PRODD	110

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

Step1. Create a new table to find the sales for Product ID 105 in May.

Step2. In the second column **(D108)** of a new table Using the following Formula:

=INDEX(D6:H11,MATCH(C108,A6:A11,0),MATCH(D107,D5:H5,0))

Where **D108** is the cell number & **C108** is the ProductID & **D107** is the sales Month column.

ProductID	May Sales
105	260