ASSIGNMENT-4

DATASET:

Α В C D 1 **Product ID Product Category** Jan Sales **Feb Sales Mar Sales Apr Sales May Sales** 2 101PRODA Electronics 120 130 140 150 160 3 102PRODB Furniture 150 170 180 190 160 4 103PRODC 200 Electronics 210 220 230 240 5 104PRODD Clothing 90 100 110 120 130 6 105PRODE Furniture 220 230 240 240 250 7 106PRODF Electronics 130 140 150 160 170

Q1: Use INDEX and MATCH to find the sales for Product C in March.

OUTPUT: =INDEX(E1:E7,MATCH(A4,A1:A7,0))

	А	В	С	D	Е	F	G	Н
1	Product ID	Product Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	Q1
2	101PRODA	Electronics	120	130	140	150	160	220
3	102PRODB	Furniture	150	160	170	180	190	
4	103PRODC	Electronics	200	210	220	230	240	
5	104PRODD	Clothing	90	100	110	120	130	
6	105PRODE	Furniture	220	230	240	240	250	
7	106PRODF	Electronics	130	140	150	160	170	

Q2: Use INDEX and MATCH to find the category for Product E.

OUTPUT: =INDEX(B2:B7,MATCH(A6,A2:A7,0))

	А	В	C	D	E	F	G	Н	
1	Product ID	Product Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	Q2	
2	101PRODA	Electronics	. 120	130	140	150	160	Furniture	
3	102PRODB	Furniture	150	160	170	180	190		
4	103PRODC	Electronics	200	210	220	230	240		
5	104PRODD	Clothing	90	100	110	120	130		
6	105PRODE	Furniture	220	230	240	240	250		
7	106PRODF	Electronics	130	140	150	160	170		

Q3: Use INDEX and MATCH to find the maximum sales for Product B across all months.

OUTPUT: =MAX(INDEX(B2:G7, MATCH(A3, A2:A6, 0), 0))

Α	В	C	D	E	F	G	Н
Product ID	Product Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	Q3
101PRODA	Electronics	120	130	140	150	160	190
102PRODB	Furniture	150	160	170	180	190	
103PRODC	Electronics	200	210	220	230	240	
104PRODD	Clothing	90	100	110	120	130	
105PRODE	Furniture	220	230	240	240	250	
106PRODF	Electronics	130	140	150	160	170	
	101PRODA 102PRODB 103PRODC 104PRODD 105PRODE	Product ID Product Category 101PRODA Electronics 102PRODB Furniture 103PRODC Electronics 104PRODD Clothing 105PRODE Furniture	Product IDProduct CategoryJan Sales101PRODAElectronics120102PRODBFurniture150103PRODCElectronics200104PRODDClothing90105PRODEFurniture220	Product ID Product Category Jan Sales Feb Sales 101PRODA Electronics 120 130 102PRODB Furniture 150 160 103PRODC Electronics 200 210 104PRODD Clothing 90 100 105PRODE Furniture 220 230	Product ID Product Category Jan Sales Feb Sales Mar Sales 101PRODA Electronics 120 130 140 102PRODB Furniture 150 160 170 103PRODC Electronics 200 210 220 104PRODD Clothing 90 100 110 105PRODE Furniture 220 230 240	Product ID Product Category Jan Sales Feb Sales Mar Sales Apr Sales 101PRODA Electronics 120 130 140 150 102PRODB Furniture 150 160 170 180 103PRODC Electronics 200 210 220 230 104PRODD Clothing 90 100 110 120 105PRODE Furniture 220 230 240 240	Product ID Product Category Jan Sales Feb Sales Mar Sales Apr Sales May Sales 101PRODA Electronics 120 130 140 150 160 102PRODB Furniture 150 160 170 180 190 103PRODC Electronics 200 210 220 230 240 104PRODD Clothing 90 100 110 120 130 105PRODE Furniture 220 230 240 240 250

Q4: Use INDEX and MATCH to find the month with the maximum sales for Product A.

OUTPUT:

=INDEX(\$C\$1:\$G\$1,MATCH(MAX(INDEX(\$C\$2:\$G\$7,MATCH("101PRODA",\$A\$ 2:\$A\$7,0),0)),INDEX(\$C\$2:\$G\$7,MATCH("101PRODA",\$A\$2:\$A\$7,0),0),0))

	А	В	С	D	E	F	G	Н
1	Product ID	Product Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	Q4
2	101PRODA	Electronics	120	130	140	150	160	May Sales
3	102PRODB	Furniture	150	160	170	180	190	
4	103PRODC	Electronics	200	210	220	230	240	
5	104PRODD	Clothing	90	100	110	120	130	
6	105PRODE	Furniture	220.	230	240	240	250	
7	106PRODF	Electronics	130	140	150	160	170	
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Q5: Use INDEX, MATCH, and SUMIF to sum the sales for all products in the "Electronics" category for April.

OUTPUT: =SUMIF(B:B, "Electronics", E:E)

	А	В	С	D	Е	F	G	Н
1	Product ID	Product Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	Q5
2	101PRODA	Electronics	120	130	140	150	160	510
3	102PRODB	Furniture	150	160	170	180	190	
4	103PRODC	Electronics	200	210	220	230	240	
5	104PRODD	Clothing	90	100	110	120	130	
6	105PRODE	Furniture	220	230	240	240	250	
7	106PRODF	Electronics	130	140	150	160	170	
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Q6: Use INDEX and MATCH to calculate the average sales for Product D across all months.

OUTPUT:

=AVERAGE(INDEX(\$C\$2:\$G\$7,MATCH("104PRODD",\$A\$2:\$A\$7,0),0))

Product Category Product ID Jan Sales **Feb Sales Mar Sales Apr Sales May Sales** Q6 101PRODA Electronics 102PRODB Furniture 103PRODC Electronics 104PRODD Clothing 105PRODE Furniture 106PRODF Electronics

Q7: Use INDEX and MATCH to find the sales for Product ID 105 in May.

OUTPUT: =INDEX(C2:G7,MATCH(A6,A2:A7,0),5)

	А	В	С	D	E	F	G	Н
1	Product ID	Product Category	Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	Q7
2	101PRODA	Electronics	120	130	140	150	160	250
3	102PRODB	Furniture	• 150	160	170	180	190	
4	103PRODC	Electronics	200	210	220	230	240	
5	104PRODD	Clothing	90	100	110	120	130	
6	105PRODE	Furniture	220	230	240	240	250	
7	106PRODF	Electronics	130	140	150	160	170	
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NAME: DASHMEET SINGH