Data Visualization

Lab Assignment: 02

Topic: HLOOKUP (MS Excel Function)

Product Name	Jan	Feb	Mar	Apr	May
Product A	120	130	140	150	160
Product B	150	160	170	180	190
Product C	200	210	220	230	240
Product D	90	100	110	120	130
Product E	220	230	240	250	260
Product F	130	140	150	160	170

Questions:

1. Use HLOOKUP to find the sales for Product A in March.

2. Use HLOOKUP to find the sales for Product D in May.

3. Use HLOOKUP to find the sales for Product C in February.

4. Use HLOOKUP to find the sales for each month for a product, then calculate the total sales for that product.

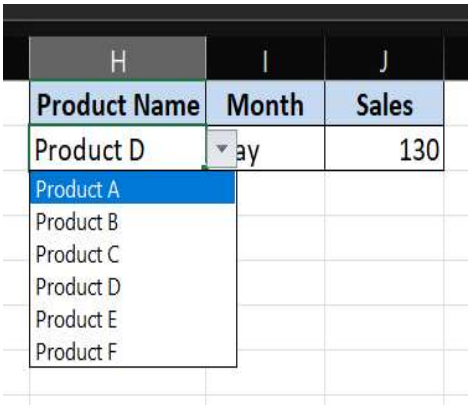
5. Use HLOOKUP to find the maximum sales value for Product B across all months.

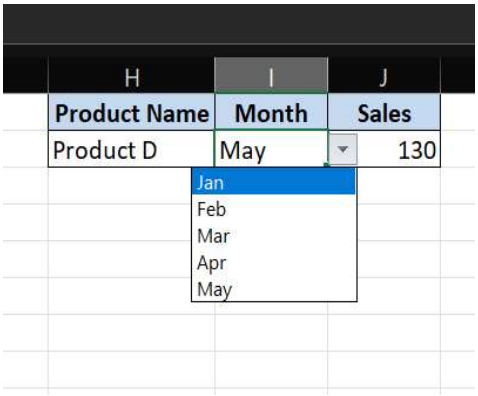
6. Use HLOOKUP to find the minimum sales value for Product F across all months.

7. Use HLOOKUP to find the average sales value for Product E across all months.

Solutions:

Created drop down list for Product Name and Month:

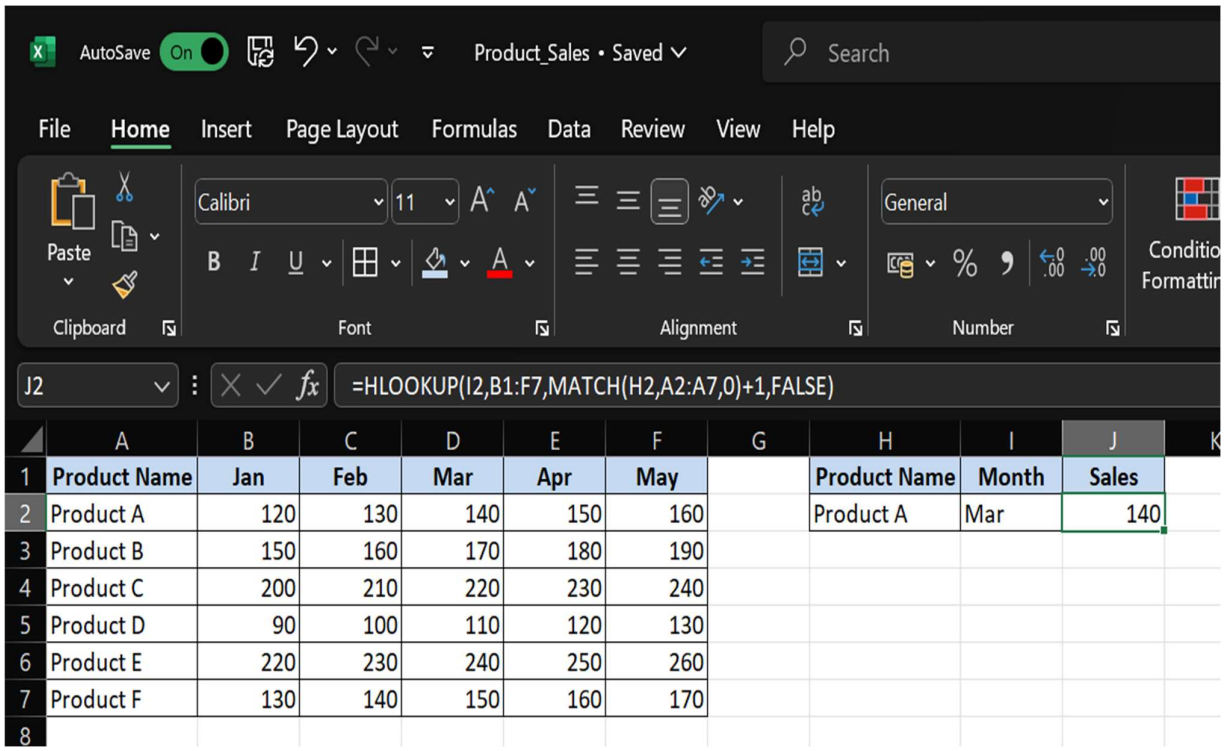




1. Use HLOOKUP to find the sales for Product A in March.

Formula: **=HLOOKUP(I2,B1:F7,MATCH(H2,A2:A7,0)+1,FALSE)**

Output:

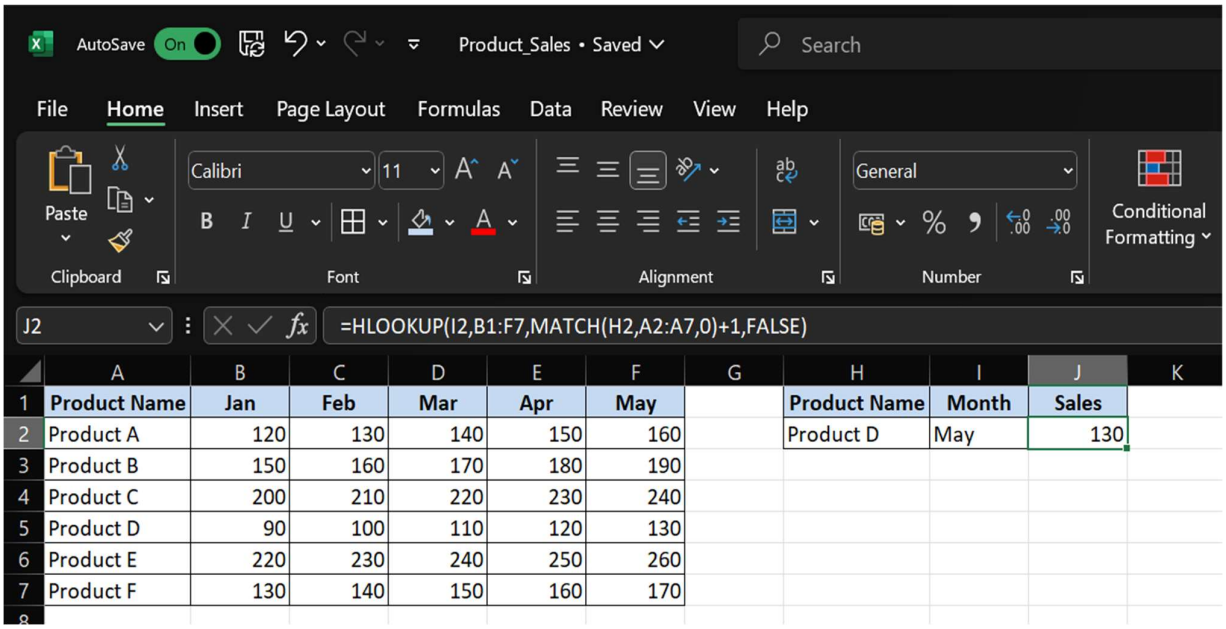


	A	B	C	D	E	F	G	H	I	J
1	Product Name	Jan	Feb	Mar	Apr	May		Product Name	Month	Sales
2	Product A	120	130	140	150	160		Product A	Mar	140
3	Product B	150	160	170	180	190				
4	Product C	200	210	220	230	240				
5	Product D	90	100	110	120	130				
6	Product E	220	230	240	250	260				
7	Product F	130	140	150	160	170				
8										

2. Use HLOOKUP to find the sales for Product D in May.

Formula: **=HLOOKUP(I2,B1:F7,MATCH(H2,A2:A7,0)+1,FALSE)**

Output:

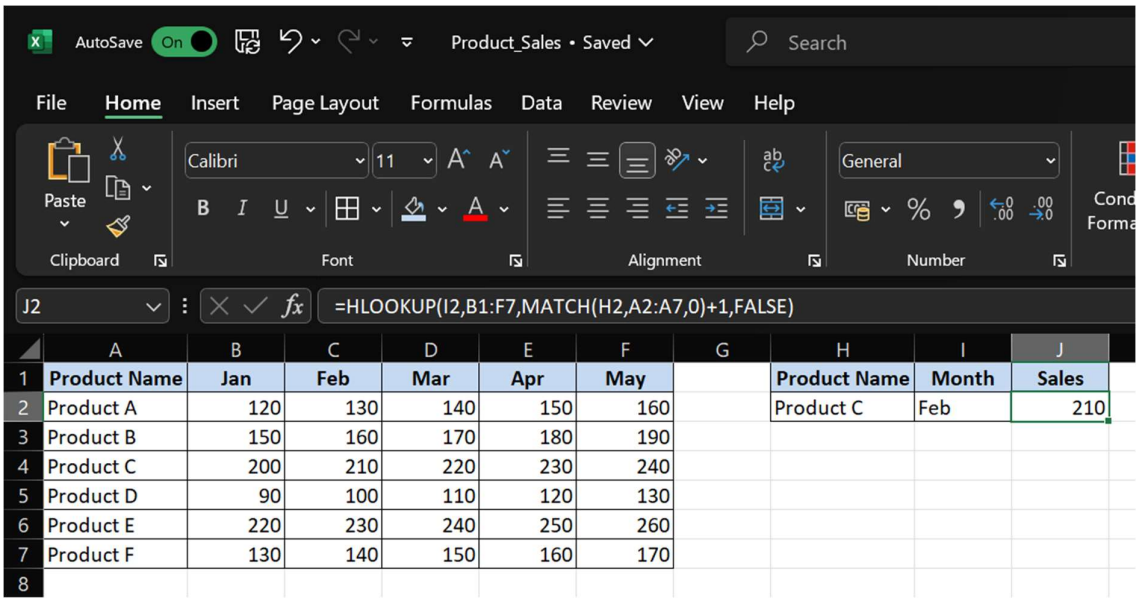


	A	B	C	D	E	F	G	H	I	J	K
1	Product Name	Jan	Feb	Mar	Apr	May		Product Name	Month	Sales	
2	Product A	120	130	140	150	160		Product D	May	130	
3	Product B	150	160	170	180	190					
4	Product C	200	210	220	230	240					
5	Product D	90	100	110	120	130					
6	Product E	220	230	240	250	260					
7	Product F	130	140	150	160	170					
8											

3. Use HLOOKUP to find the sales for Product C in February.

Formula: **=HLOOKUP(I2,B1:F7,MATCH(H2,A2:A7,0)+1,FALSE)**

Output:

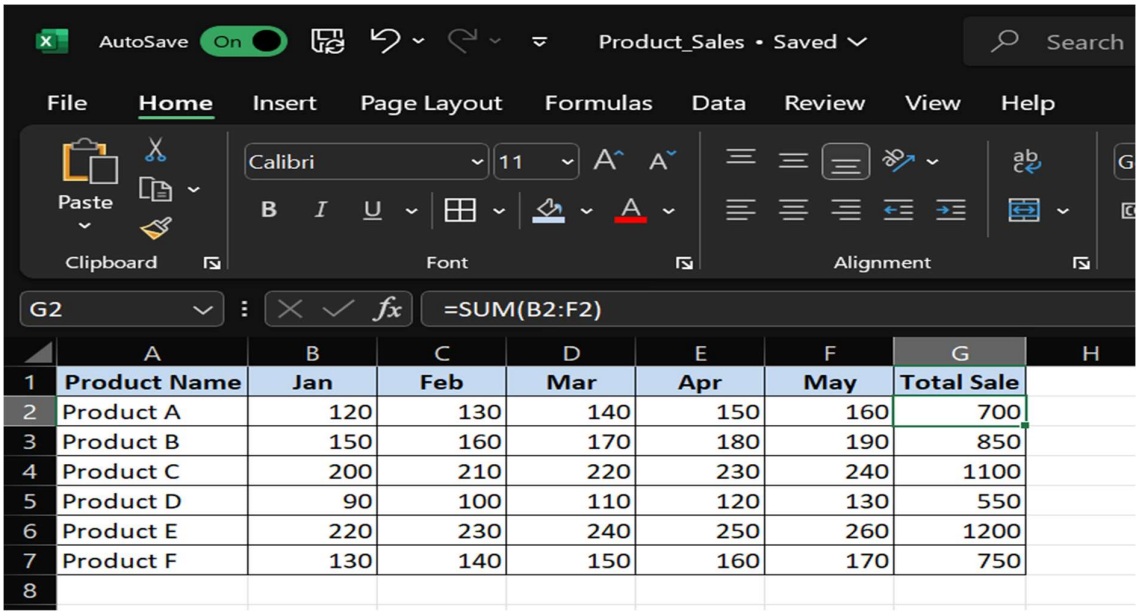


	A	B	C	D	E	F	G	H	I	J
1	Product Name	Jan	Feb	Mar	Apr	May		Product Name	Month	Sales
2	Product A	120	130	140	150	160		Product C	Feb	210
3	Product B	150	160	170	180	190				
4	Product C	200	210	220	230	240				
5	Product D	90	100	110	120	130				
6	Product E	220	230	240	250	260				
7	Product F	130	140	150	160	170				
8										

4. Use HLOOKUP to find the sales for each month for a product, then calculate the total sales for that product.

Formula: **=SUM(B2:F2)**

Output:

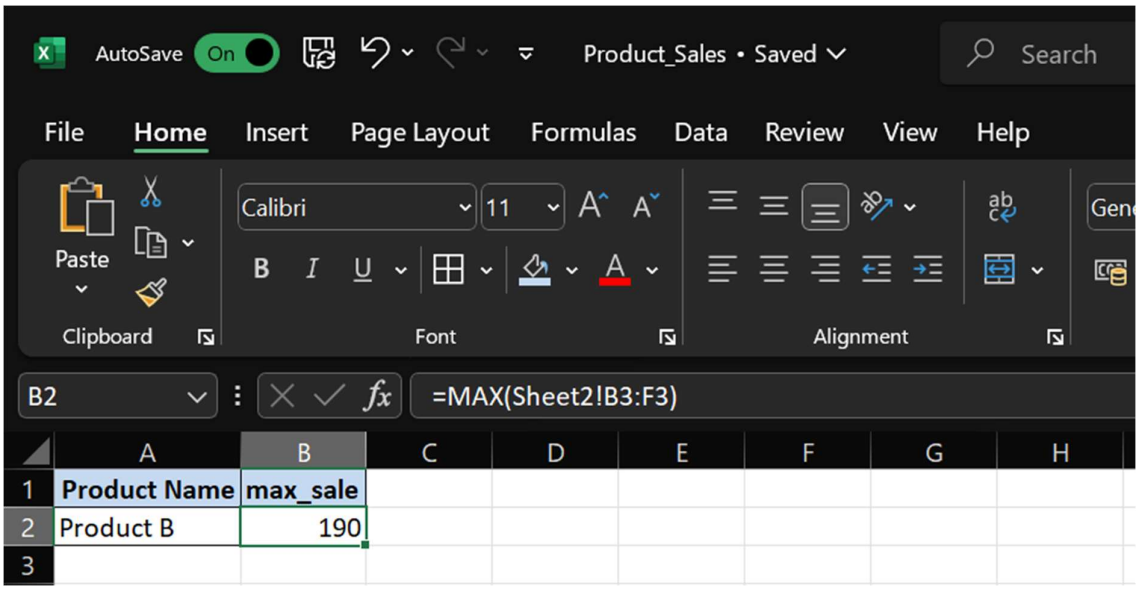


	A	B	C	D	E	F	G	H
1	Product Name	Jan	Feb	Mar	Apr	May	Total Sale	
2	Product A	120	130	140	150	160	700	
3	Product B	150	160	170	180	190	850	
4	Product C	200	210	220	230	240	1100	
5	Product D	90	100	110	120	130	550	
6	Product E	220	230	240	250	260	1200	
7	Product F	130	140	150	160	170	750	
8								

5. Use HLOOKUP to find the maximum sales value for Product B across all months.

Formula: **=MAX(Sheet2!B3:F3)**

Output:

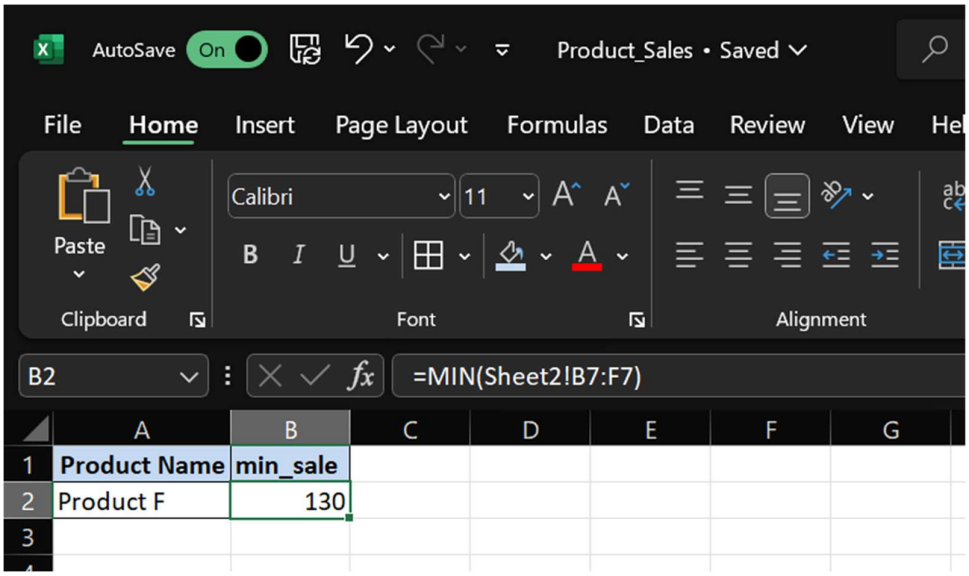


	A	B	C	D	E	F	G	H
1	Product Name	max_sale						
2	Product B	190						
3								

6. Use HLOOKUP to find the minimum sales value for Product F across all months.

Formula: **=MIN(Sheet2!B7:F7)**

Output:



7. Use HLOOKUP to find the average sales value for Product E across all months.

Formula: **=AVERAGE(Sheet2!B6:F6)**

Output: