

DATA VISUALIZATION

Lab Assignment-3

Topic - HlookUp (Horizontal Lookup Function)

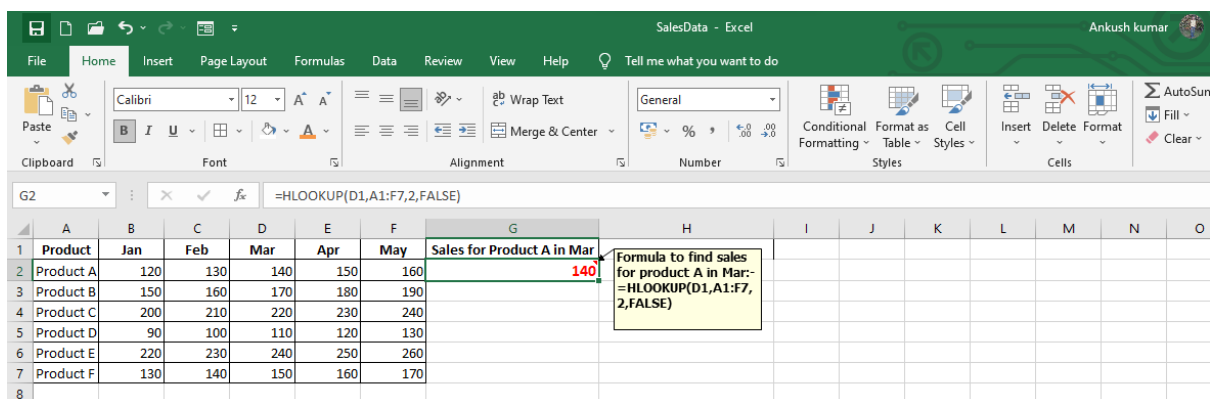
Assume you have the following dataset in an Excel worksheet starting from cell

A1: Worksheet: Sales Data

Product	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

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

Ans. ↓



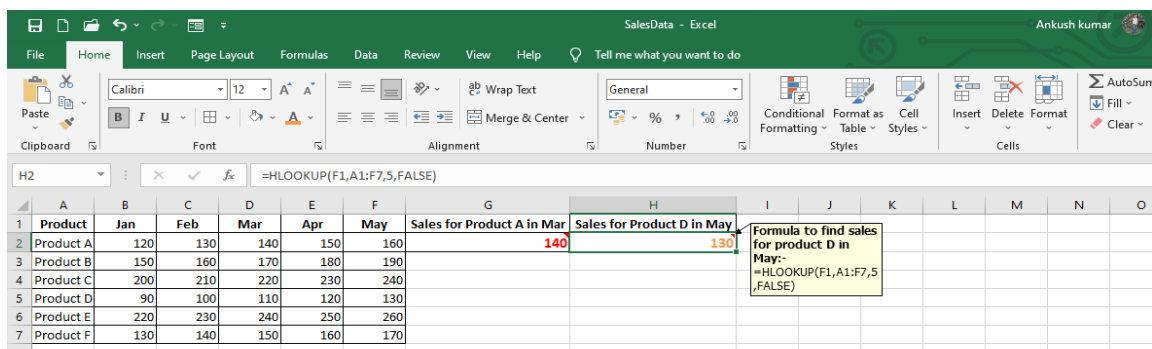
The screenshot shows an Excel worksheet titled "SalesData - Excel" with the following data:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Product	Jan	Feb	Mar	Apr	May	Sales for Product A in Mar								
2	Product A	120	130	140	150	160	140	=HLOOKUP(D1,A1:F7,2,FALSE)							
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									

The formula bar shows: `=HLOOKUP(D1,A1:F7,2,FALSE)`. A tooltip explains: "Formula to find sales for product A in Mar:- =HLOOKUP(D1,A1:F7,2,FALSE)".

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

Ans. ↓



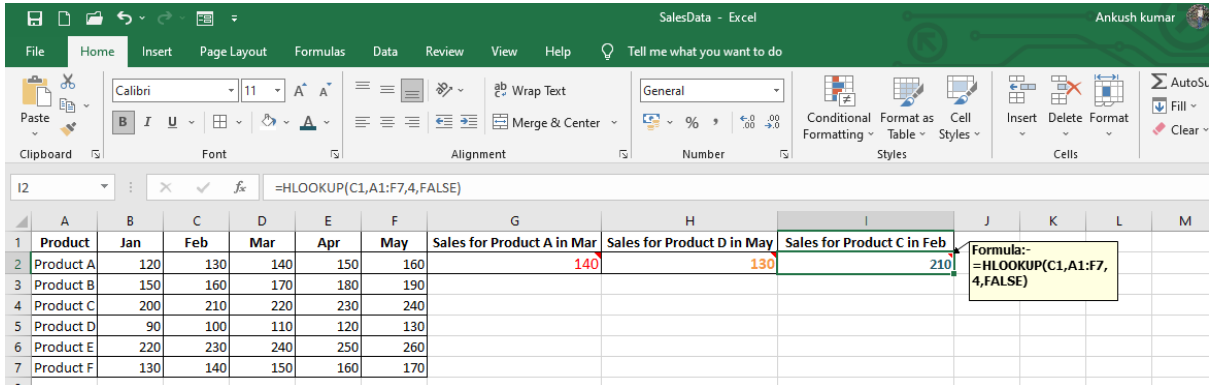
The screenshot shows the same Excel worksheet with an additional formula added in cell H2:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Product	Jan	Feb	Mar	Apr	May	Sales for Product A in Mar	Sales for Product D in May							
2	Product A	120	130	140	150	160	140	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									

The formula bar shows: `=HLOOKUP(F1,A1:F7,5,FALSE)`. A tooltip explains: "Formula to find sales for product D in May:- =HLOOKUP(F1,A1:F7,5,FALSE)".

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

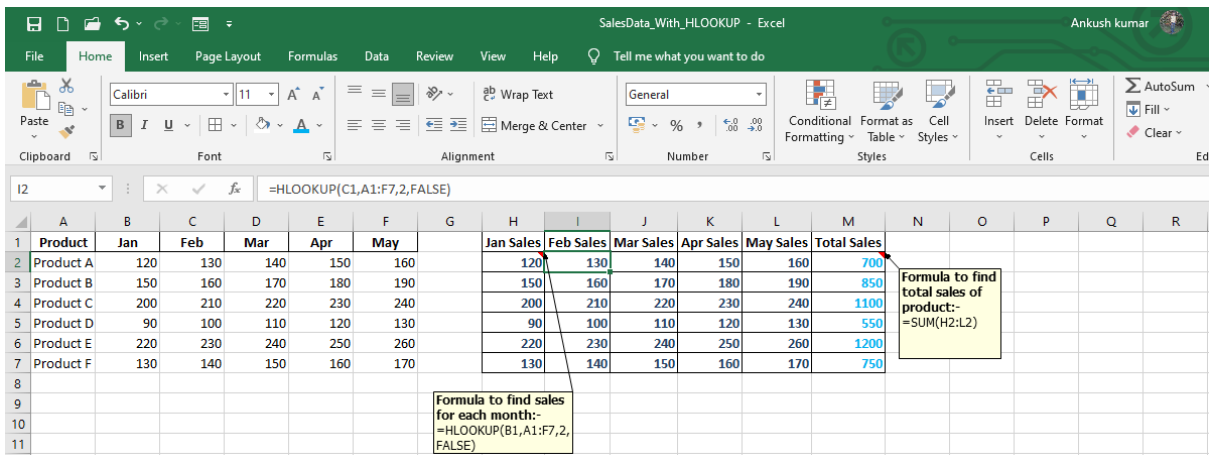
Ans. 



	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Product	Jan	Feb	Mar	Apr	May	Sales for Product A in Mar	Sales for Product D in May	Sales for Product C in Feb				
2	Product A	120	130	140	150	160	140	130	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							

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

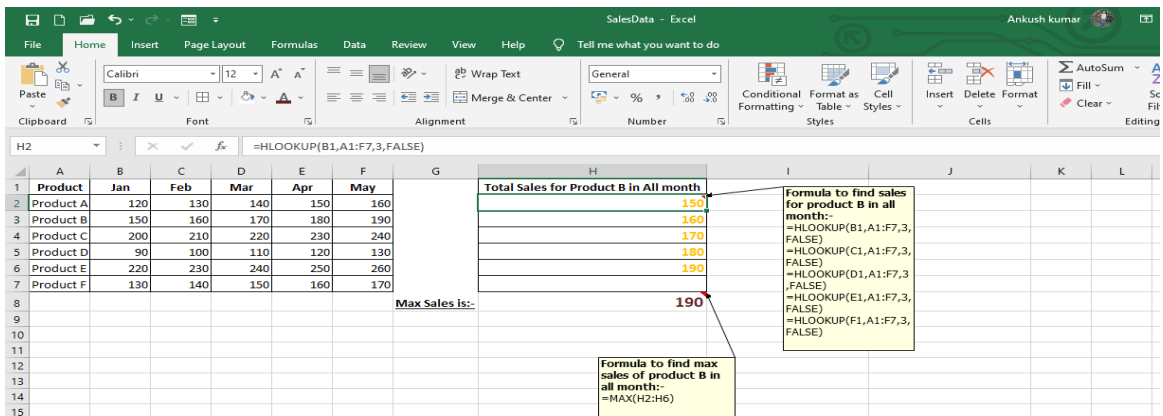
Ans. 



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Product	Jan	Feb	Mar	Apr	May		Jan Sales	Feb Sales	Mar Sales	Apr Sales	May Sales	Total Sales					
2	Product A	120	130	140	150	160		120	130	140	150	160	700					
3	Product B	150	160	170	180	190		150	160	170	180	190	850					
4	Product C	200	210	220	230	240		200	210	220	230	240	1100					
5	Product D	90	100	110	120	130		90	100	110	120	130	550					
6	Product E	220	230	240	250	260		220	230	240	250	260	1200					
7	Product F	130	140	150	160	170		130	140	150	160	170	750					

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

Ans. 



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

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

SalesData - Excel

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H2: =HLOOKUP(B1,A1:F7,7,FALSE)

Product	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

Total Sales for Product F in All month

130
140
150
160
170

Max Sales is:- 170

Formula to find sales for product B in all month:-
=HLOOKUP(B1,A1:F7,7,FALSE)
=HLOOKUP(C1,A1:F7,7,FALSE)
=HLOOKUP(D1,A1:F7,7,FALSE)
=HLOOKUP(E1,A1:F7,7,FALSE)
=HLOOKUP(F1,A1:F7,7,FALSE)

Formula to find max sales of product B in all month:-
=MAX(H2:H6)

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

SalesData - Excel

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Comment 4: =AVERAGE(H2:H6)

Product	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

Total Sales for Product E in All month

220
230
240
250
260

Avg Sales is:- 240

Formula to find sales for product B in all month:-
=HLOOKUP(B1,A1:F7,6,FALSE)
=HLOOKUP(C1,A1:F7,6,FALSE)
=HLOOKUP(D1,A1:F7,6,FALSE)
=HLOOKUP(E1,A1:F7,6,FALSE)
=HLOOKUP(F1,A1:F7,6,FALSE)

Formula to find Avg sales of product B in all month:-
=AVERAGE(H2:H6)