ASSIGNMENT NO. 3
TOPIC: - VLOOKUP

- Worksheet 1: Product
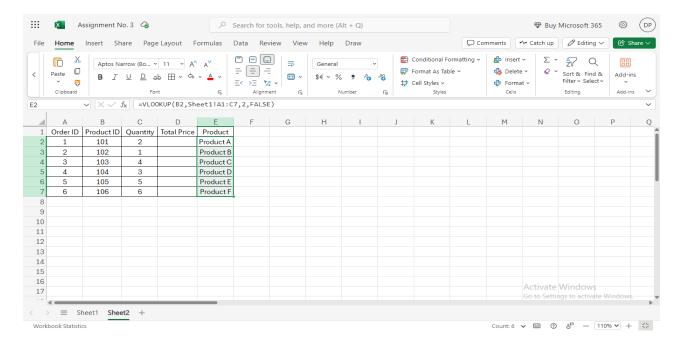
Product ID	Product	Price
101	Product A	120
102	Product B	150
103	Product C	200
104	Product D	90
105	Product E	220
106	Product F	130

- Worksheet 2: Orders

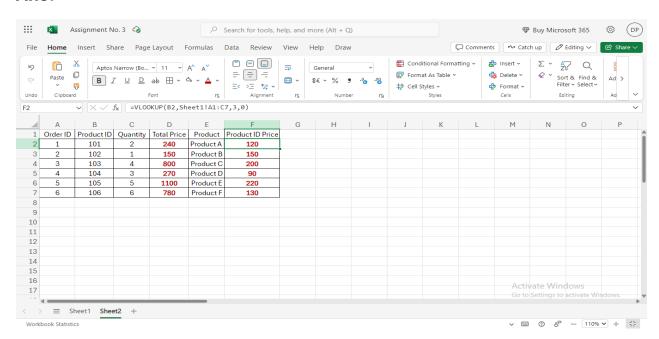| Order ID	Product ID	Quantity	Total Price
1	101	2	
2	102	1	
3	103	4	
4	104	3	
5	105	5	
6	106	6	

1. **Use VLOOKUP to find the product names for each Productid in the Orders worksheet.**
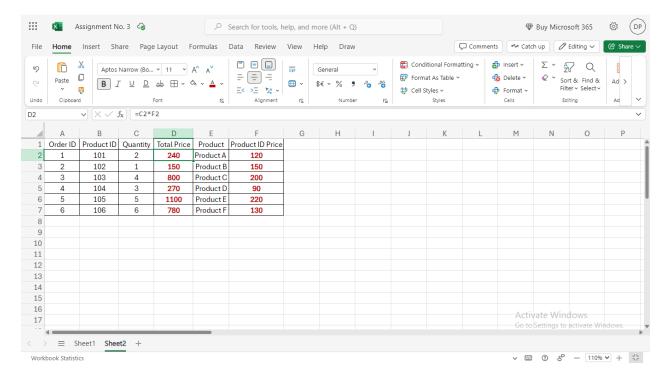
Ans: -

2. **Use VLOOR to find the price for each Productid in the Orders worksheet, then calculate the Total Price by multiplying the Quantity by the Product Price**
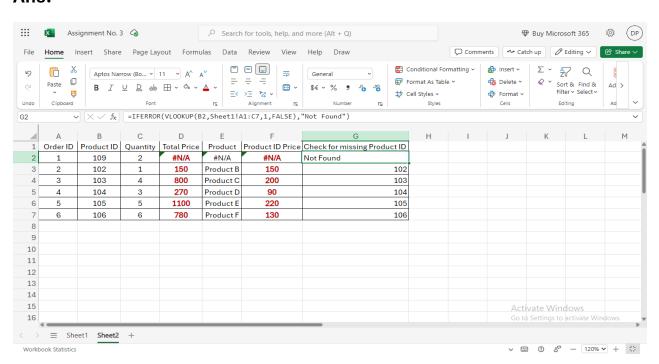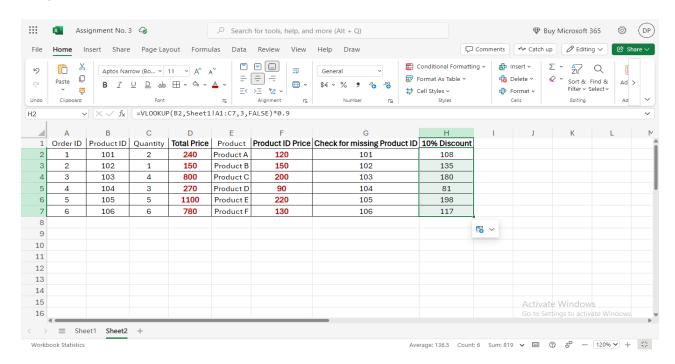
Ans: -

	A	B	C	D	E	F
1	Order ID	Product ID	Quantity	Total Price	Product	Product ID Price
2	1	101	2	240	Product A	120
3	2	102	1	150	Product B	150
4	3	103	4	800	Product C	200
5	4	104	3	270	Product D	90
6	5	105	5	1100	Product E	220
7	6	106	6	780	Product F	130

3. **Use VLOOKUP to check if there are any Productids in the Orders worksheet that do not exist in the Products worksheet.**

Ans: -

`=IFERROR(VLOOKUP(B2,Sheet1!A1:C7,1,FALSE),"Not Found")`

	A	B	C	D	E	F	G
1	Order ID	Product ID	Quantity	Total Price	Product	Product ID Price	Check for missing Product ID
2	1	109	2	#N/A	#N/A	#N/A	Not Found
3	2	102	1	150	Product B	150	102
4	3	103	4	800	Product C	200	103
5	4	104	3	270	Product D	90	104
6	5	105	5	1100	Product E	220	105
7	6	106	6	780	Product F	130	106

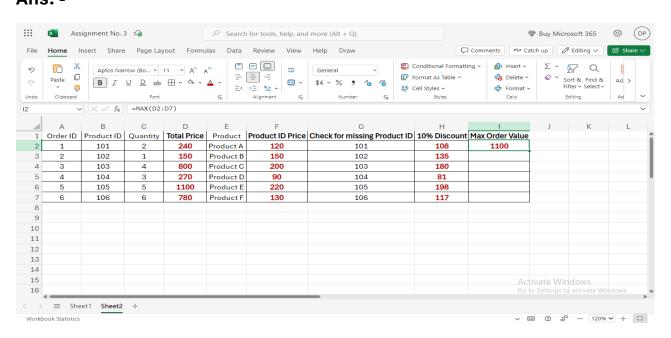4. **Assume a discount of 10% is given on all products. Use VLOOKUP to find the original price and then calculate the discounted price.**
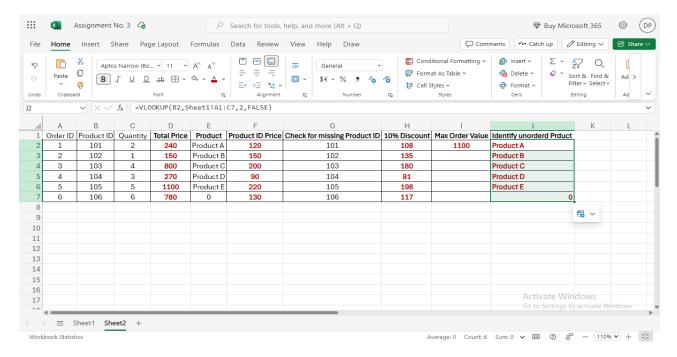
Ans: -

5. **Use VLOOKUP to find the price for each Productid and then calculate the order value. Find the maximum order value from the list.**

Ans: -

6. **Use VLOOKUP to find out which products from the Products worksheet have not been ordered.**

Ans: -

7. Use VLOOKUP to find the Product name and summarize the total quantity sold for each product.

Ans: -

	A	B	C	D
1	Product ID	Product	Price	summarize Total Quantity Sold
2	101	Product A	120	2
3	102	Product B	150	1
4	103	Product C	200	4
5	104	Product D	90	3
6	105	Product E	220	5
7	106	Product F	130	6

Formula (D2): `=SUMIF(Sheet2!E2:E7,Sheet1!B2,Sheet2!C2:C7)`

The first spreadsheet (Sheet2) formula (J2): `=VLOOKUP(B2,Sheet1!A1:C7,2,FALSE)`

	A	B	C	D	E	F	G	H	I	J
1	Order ID	Product ID	Quantity	Total Price	Product	Product ID Price	Check for missing Product ID	10% Discount	Max Order Value	Identify unorderd Prduct
2	1	101	2	240	Product A	120	101	108	1100	Product A
3	2	102	1	150	Product B	150	102	135		Product B
4	3	103	4	800	Product C	200	103	180		Product C
5	4	104	3	270	Product D	90	104	81		Product D
6	5	105	5	1100	Product E	220	105	198		Product E
7	6	106	6	780	0	130	106	117		0