

1. Use VLOOKUP to find the product names for each ProductID in the Orders Worksheet.

=VLOOKUP(B2, Products!A2:C7, 2, FALSE)

OrderID	ProductID	Quantity	Product name
1	101	2	Product A
2	103	1	Product C
3	105	4	Product E
4	106	3	Product F
5	102	5	Product B
6	104	6	Product D

2. Use VLOOKUP to find the price for each ProductID in the Orders worksheet, then calculate the TotalPrice by multiplying the Quantity by the Product Price.

=VLOOKUP(B2, Products!A2:C7, 3, FALSE)

=C2 * C14

OrderID	ProductID	Quantity	ProductPrice	TotalPrice
1	101	2	120	240
2	103	1	200	200
3	105	4	220	880
4	106	3	130	390
5	102	5	150	750
6	104	6	90	540

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

=IFERROR(VLOOKUP(B2, Products!A2:A7, 1, FALSE), "Not Found")

OrderID	ProductID	Quantity	Check ProductID
1	101	2	101
2	103	1	103
3	105	4	105
4	106	3	106
5	102	5	102
6	104	6	104

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

=VLOOKUP(B2, Products!A2:C7, 3, FALSE)

=F14 * 0.9

OrderID	ProductID	Quantity	Original Price	Discounted Price
1	101	2	120	108
2	103	1	200	180
3	105	4	220	198
4	106	3	130	117
5	102	5	150	135
6	104	6	90	81

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

=VLOOKUP(B2, Products!A2:C7, 3, FALSE)

=C2 * C14

=MAX(D14:D19)

OrderID	ProductID	Quantity	ProductPrice	Order Value
1	101	2	120	240
2	103	1	200	200
3	105	4	220	880
4	106	3	130	390
5	102	5	150	750
6	104	6	90	540
			Max order value	880

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

=IF(ISNA(VLOOKUP(A2, Orders!B2:B7, 1, FALSE)), "Not Ordered", "Ordered")

ProductID	Product	Price	Check Order
101	Product A	120	Ordered
102	Product B	150	Ordered
103	Product C	200	Ordered
104	Product D	90	Ordered
105	Product E	220	Ordered
106	Product F	130	Ordered

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

=SUMIF(Orders!D2:D7, B2, Orders!C2:C7)

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