

Order ID	Product	Price	
I01	product A	I20	
I02	product B	I50	
I03	product C	200	
I04	product D	90	
I05	product E	220	
I06	product F	I30	

Q1. Use VLOOKUP to find the product names for each Product ID in the Orders worksheet.

Step1:- Worksheet2 create a new column next to product id called product name

Step 2:- In the first row in the new column(D17) For the following formula

"=VLOOKUP(D17,Sheet1!\$B\$3:\$D\$8,2,0)"

Before is the Product id in the order worksheet" **Sheet1!\$B\$3:\$D\$8"** that is the range where Product id and Product name located.

To indicates the column index number and 0 is for exact match.

S.No	Product ID	Product Name	Total price
1	I01	Product A	2
2	I03	Product C	1
3	I05	Product E	4
4	I06	Product F	3
5	I02	Product B	5
6	I04	Product D	6

Q2.Use VLOOKUP to find the price for each Product ID in the Orders worksheet, then calculate the Total price by multiplying the quantity by the Product Price .

Step 1:- In worksheet2 create a new column called price

Step 2 In the first row in the new column (F4) write the following formula

"=VLOOKUP(D17,sheet3!\$B\$3:\$D\$17,3,0)".

Where D17 is the product id in the order worksheet three refers to the third column (Price worksheet10) in the product worksheet

Step 3:-In the total price column calculate the total price by multiplying the price and quantity

"=(F4*G4)".

Product ID	Product Name	Price	Quantity	Total Price
I01	Product A	I20	2	240
I03	Product C	200	1	400

I05	Product E	220	4	880
I06	Product F	130	3	260
I02	Product B	150	5	750
I04	Product D	90	6	540

Q3:- Use VLOOKUP to check if there are any ProductID in the Orders worksheet that do not exist in the Products worksheet.

Step1:-In worksheet 2 Product Id in product table add a new record with the product id which is not present in product table then

Step 2 In the first row of the new column with the formula

"=IF(ISNA(VLOOKUP(D17,Sheet3!\$B\$3:\$D\$8,1,0)),"NOT FOUND","FOUND")"

Product ID	Product Name	Price	Quantity	Total Price	Found Or Not
I01	Product A	120	2	240	Found
I03	Product C	200	1	400	Found
I05	Product E	220	4	880	Found
I06	Product F	130	3	260	Found
I02	Product B	150	5	750	Found
I04	Product D	90	6	540	Found
I07					Not Found

Q4. Assume a discount of 10% is given on all products. Use VLOOKUP to find the original price and then calculate the discounted price.

Step1 :- In worksheet2 create a new column is called discounted price

Product Id	Product Name	Price	Quantity	Total Price	Found or not	Discounted price
I01	Product A	120	2	240	Found	108
I03	Product C	200	1	400	Found	180
I05	Product E	220	4	880	Found	198
I06	Product F	130	3	260	Found	117
I02	Product B	150	5	750	Found	135
I04		90	6	540	Found	81
I07					Not Found	0

Step2 :- In the first row of the new column J4 use the following formula **"=H4*(1-0.1)"** where H4 is the price.

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

Step1:-Use the VLOOKUP formula from question 2 to get the total price

Step2:- Use the following Formula:-**"=MAX(H4:H9)"**

Product ID	Product Name	Price	Quantity	Total Price
I01	Product A	I20	2	240
I03	Product C	200	I	400
I05	Product E	220	4	880
I06	Product F	I30	3	260
I02	Product B	I50	5	750
I04	Product D	90	6	540

Q6. Use VLOOKUP to find out which products from the Products worksheet have not been ordered.

Step1:- Add a record in product table that is not in order table

Step2:- Create a new column named for called product ordered or not.

Step3:- In the first of the new column, the following foemula is:-

=IF(ISNA(B3,VLOOKUP2!\$D\$4:\$J\$10,1,0)),"Not ordered","Ordered")

Product Id	Product Name	Price	Product Ordered or not
I01	product A	I20	Ordered
I02	product B	I50	Ordered
I03	product C	200	Ordered
I04	product D	90	Ordered
I05	product E	220	Ordered
I06	product F	I30	Ordered
I08	Product G	I50	Not Ordered