QUESTION

VLOOKUP LAB

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

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.

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

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

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

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

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

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

Order ID	Product ID	Product Name	Quantity	Total pice
1	101	Product A	2	
2	103	Product C	1	
3	105	Product E	4	
4	106	Product F	3	
5	102	Product B	5	
6	104	Product D	6	

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

Step1. In Worksheet 2 Create a new column next to Product ID(Product Name).

Step2. In the first row in thw new column (D3)Use the following Formula.

=VLOOKUP(C3,Sheet1!$B$3:$D$8,2,0)

Step3. D4 is the product Id in the order worksheet.

Step4. Sheet1!$B$3:$D$8 is the range of the table where the **product ID and product Name** Are Located.

Step5. 2 Indicates the column index Number and **0** is for Exact match.

Order ID	Product ID	Product Name	Quantity
1	101	Product A	2
2	103	Product C	1
3	105	Product E	4
4	106	Product F	3
5	102	Product B	5
6	104	Product D	6

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.

Step1. In Worksheet 2 Create a new column next to Quantity(Price).

Step2. In the first row of the new column(F3)Write the following formula.

=VLOOKUP(C3,Sheet1!$B$3:$D$8,3,0)

D4 is the Product ID in the order worksheet**.3** refers to the third column.

Step3.In the total price column Calculate the total price by multiplying the price & quantity.

Order ID	Product ID	Product Name	Quantity	Price	Total Price
1	101	Product A	2	120	240
2	103	Product C	1	200	200
3	105	Product E	4	220	880
4	106	Product F	3	130	390
5	102	Product B	5	150	750
6	104	Product D	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.

Step1. In In worksheet to create a new column called Product ID IN Product Table

Step2. ADD a new record with a product id the is not present in product table.

Step3. In the first row in a new Column write the following formulae

(=IF(ISNA(VLOOKUP(C3,Sheet1!$B$3:$D$9,1,0)),"Not Found","Found").

D4 is the Product ID in the order worksheet**.3** refers to the third column.

Order ID	Product ID	Product Name	Quantity	Price	Total Price	Product ID in Product Table
1	101	Product A	2	120	240	Found
2	103	Product C	1	200	200	Found
3	105	Product E	4	220	880	Found
4	106	Product F	3	130	390	Found
5	102	Product B	5	150	750	Found
6	104	Product D	6	90	540	Found
7						Not Found

4. 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 worksheet 2 create a new column called **discounted price**.

Step2.In the first row of the new column (**f80**) use the following formula :

=E81*(1-0.1)

Where **E81** is the price.

Order ID	Product ID	Product Name	Quantity	Price	Discounted price	Total Price	Product ID in Product Table
1	101	Product A	2	120	108	240	Found
2	103	Product C	1	200	180	200	Found
3	105	Product E	4	220	198	880	Found
4	106	Product F	3	130	117	390	Found
5	102	Product B	5	150	135	750	Found
6	104	Product D	6	90	81	540	Found
7							Not Found

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

Step1. use the vlookup Formula from ques 2 to get the total price

Step2. In worksheet 2 create a new column called maximum value and merge the cells.

Step3. use the following formula to find the maximum value.

=MAX(H3:H8)

Order ID	Product ID	Product Name	Quantity	Price	Discounted price	Total Price	Product ID in Product Table	Maximum Value
1	101	Product A	2	120	108	240	Found	
2	103	Product C	1	200	180	200	Found	
3	105	Product E	4	220	198	880	Found	
4	106	Product F	3	130	117	390	Found	
5	102	Product B	5	150	135	750	Found	
6	104	Product D	6	90	81	540	Found	
7							Not Found	**880**

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

1.Add a new product record in product table.

2.Create a new column Called Product ordered or not in product table.

3.In the first row of the new column that is : e3 write down the following formula:

=If(ISNA(VLOOKUP(B3,Sheet3!$B$2:$H$7,1,0)),"Not Ordered","Ordered")

Product ID	Product	Price	Ordered or not
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
108	Product H	155	Ordered

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

Step1. use the same vlookup formula reffered to question number 1.

Step2. Create a **pivot Table** to find **the Total Quantity** of the product.

Order ID	Product ID	Product Name	Quantity
1	101	Product A	2
2	103	Product C	1
3	105	Product E	4
4	106	Product F	3
5	102	Product B	5
6	104	Product D	6

Row Labels	Sum of Quantity
Product A	2
Product B	5
Product C	1
Product D	6
Product E	4
Product F	3
Grand Total	**21**