

# Advanced VLOOKUP

## Worksheet 1: Products

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

## Worksheet 2: Orders

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

**Ques 1:** Use **VLOOKUP** to dynamically find the unit price for each Product ID in the Orders worksheet and calculate the total price.

**Solution:**

**Step1:** Create a column(D1) named Unit Price.

**Step2:** In the cell B2 use the following formula to find out the Unit Price

**=VLOOKUP(B2,Sheet1!A1:D7,4,0)** where **B2** is the cell containing the Product ID for the first order, **Sheet1!A1:D7** specifies the range of the lookup table (the entire Products data), **4** indicates that we want to return the value from the 4<sup>th</sup> column in the selected range, which is the Price, **0** specifies that we are looking for an exact match.

**Step3:** Create a column(E1) named Total Price.

**Step4:** In cell E2 use the formula **=C2\*D2** to get Total price where C2 is the quantity, and D2 (where you pasted your VLOOKUP formula) is the unit price.

Order ID	Product ID	Quantity	Unit Price	Total Price
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

**Ques2:** Use nested VLOOKUP to find the category of each product in the Orders worksheet.

**Solution:**

**Step1:** Create a Column(D1) named Category.

**Step2:** Use the following nested VLOOKUP formula to find out the Category,

=VLOOKUP(VLOOKUP(B2,Sheet1!A1:D7,4,0),Sheet1!A1:D7,3,0) , The inner VLOOKUP retrieves the price of the product (as shown previously),  
The outer VLOOKUP using the same Product ID fetches the category (which is in the 3<sup>rd</sup> column of the range).

Order ID	Product ID	Quantity	Category
1	101	2	Electronics
2	103	1	Electronics
3	105	4	Furniture
4	106	3	Electronics
5	102	5	Furniture
6	104	6	Clothing

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## Worksheet: Monthly Sales

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

**Ques1:** Use HLOOKUP to dynamically find the sales for Product B in a specified month.

**Solution:**

**Step1:** Create a column(I3) named Product B.

**Step2:** Create a dropdown list in column H4 to get the Sales for every month.

**Step3:** Use the following formula to dynamically find the sales for Product B in a specified month,

=HLOOKUP(H4,A1:F7,3,0) Where H4 is the lookup value, A1:F7 is the table array,3 is the row index,0 is for exact match.

Month	Product B
Jan	150

Month	Product B
Feb	160

Month	Product B
Mar	170

Month	Product B
Apr	180

Month	Product B
May	190