

# VLOOKUP Lab

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## VLOOKUP Exercises

### Worksheet1: Products

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

### Worksheet2: Orders

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

### 1. Use VLOOKUP to find the product names for each Product ID in the Orders.

**Step1:** In the “Order Table”, create a new column next to “Product ID” called “Product Name”.

**Step2:** In the first row of the “Product Name” column (e.g., cell C2), use the VLOOKUP formula:

**=VLOOKUP (B2, Product! \$A\$2: \$C\$8,2, FALSE)**

- **B2:** refers to the Product ID in the “Order” sheet.
- **Product! \$A\$2: \$C\$8:** refers to the range in the “Product” sheet containing Product ID, Product Name and Price.
- **2:** refers to the column index for the “Product Name”.

- FALSE: Ensures an exact match.

**Step3:** Drag the formula down to fill the “Product Name” column for all rows.

## 2. Use VLOOKUP to find the price for each Product ID in the Orders worksheet, then calculate the Total Price.

**Step1:** Create a new column next to “Product Name” and name it “Price”.

**Step2:** In the first row of the “Price” Column (e.g., cell D2), enter the following formula:

**=VLOOKUP (B2, PRODUCT! \$A\$2: \$C\$8,3, FALSE)**

- The column index is 3 because the “Price” is in the third column of the Product worksheet.

**Step3:** Drag the formula down to fill the entire “Price” column.

**Step4:** In the “Total Price” column (e.g., cell F2), calculate the total price by using this formula:

**=D2\*E2**

- D2: refers to the Price.
- E2: refers to the Quantity.

**Step5:** Drag the formula down to calculate to total price for all rows.

## 3. Use VLOOKUP to check if there are any Product ID in the Orders worksheet that do not exist in the Product worksheet.

**Step1:** Create n new column in the Orders worksheet called “PID in Product Table”.

**Step2:** In the first cell of this column (e.g., G2), use the following formula:

**=IF (ISNA (VLOOKUP (B2, Product! \$A\$2: \$A\$8, 1, FALSE)), "Not Found", "Found")**

**Step 3:** Drag the formula down the column to check all Product ID in the Orders 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.**

**Step1:** In Worksheet 2, create a new column called "Discounted Price."

**Step 2:** In the first row of the new column (e.g., 14), use:

**=F4\*(1-0.1)**

○ **F4 is the Price.**

#### **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.**

**Step 1:** Use the VLOOKUP formula from step 2 to get the price and calculate the total order value in the "Total Price" column.

**Step 2:** In Worksheet 2, create a new column called "maximum value" and "Merge and centre":

**Step 3:** Use the following formula to find the maximum value:

**=MAX (H4:H9)**

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

**Step 1:** Add a record that is not in Order table. In Worksheet 1 (Products),

**Step 2:** create a new column (e.g., F2) and use this formula:

```
=IF (ISNA (VLOOKUP (B3, VLOOKUP2ISDS4: $I$10,1,0)), "Not  
ordered" "Ordered")
```

This checks if the Product from Worksheet 1 exists in Worksheet 2 (Orders). If the product was not ordered, it will return "Not Cindered."

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

**Step 1:** Create a pivot table to summarize the total quantity sold.

**Step 2:** In the pivot table, add "Product Name" to the rows and "Quantity" to the values.

- **Alternative Method:** Use a formula-based approach:
  - Create a new column in the "Product" sheet for total quantity.
  - Use the formula:

```
=SUMIF (Order! $B$2: $B$8, A2, Order! $E$2: $E$8)
```
  - **Order! \$B\$2: \$B\$8:** Refers to Product ID in the "Order" sheet.
  - **A2:** Refers to the current Product ID in the "Product" sheet.
  - **Order! \$E\$2: \$E\$8:** Refers to quantities in the "Order" sheet.

**Step 3:** Drag the formula down to compute the total quantity for each product.