

23. Lab 3

VLOOKUP Exercises

Worksheet 1: 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

Worksheet 2: 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	

Order ID	Product ID	Quantity	Total Price
1	101	2	240
2	103	1	200
3	105	4	880
4	106	3	390
5	102	5	750
6	104	6	540

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

	A	B	C
1	ProductID	Product	Price
2	101	Product A	120
3	102	Product B	150
4	103	Product C	200
5	104	Product D	90
6	105	Product E	220
7	106	Product F	130

	A	B	C	D	E
1	OrderID	Product Name	ProductID	Quantity	TotalPrice
2	1	Product A	101	2	240
3	2	Product C	103	1	200
4	3	Product E	105	4	880
5	4	Product F	106	3	390
6	5	Product B	102	5	750
7	6	Product D	104	6	540

2. 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.

	A	B	C
1	ProductID	Product	Price
2	101	Product A	120
3	102	Product B	150
4	103	Product C	200
5	104	Product D	90
6	105	Product E	220
7	106	Product F	130

	A	B	C	D	E	F
1	OrderID	Product Name	ProductID	Quantity	Product Price	TotalPrice
2	1	Product A	101	2	120	240
3	2	Product C	103	1	200	200
4	3	Product E	105	4	220	880
5	4	Product F	106	3	130	390
6	5	Product B	102	5	150	750
7	6	Product D	104	6	90	540

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

	A	B	C
1	ProductID	Product	Price
2	101	Product A	120
3	102	Product B	150
4	103	Product C	200
5	104	Product D	90
6	105	Product E	220
7	106	Product F	130

	A	B	C	D
1	OrderID	ProductID	Quantity	Check Product
2	1	101	2	Found
3	2	103	1	Found
4	3	105	4	Found
5	4	106	3	Found
6	5	102	5	Found
7	6	104	6	Found

(If we change the product id from 104 to 107 of order id with same order 6 the check product value will change to not product)

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

	A	B	C
1	ProductID	Product	Price
2	101	Product A	120
3	102	Product B	150
4	103	Product C	200
5	104	Product D	90
6	105	Product E	220
7	106	Product F	130

	A	B	C	D	E
1	OrderID	ProductID	Quantity	Original Price	Discounted Price
2	1	101	2	120	108
3	2	103	1	200	180
4	3	105	4	220	198
5	4	106	3	130	117
6	5	102	5	150	135
7	6	104	6	90	81

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.

	A	B	C
1	ProductID	Product	Price
2	101	Product A	120
3	102	Product B	150
4	103	Product C	200
5	104	Product D	90
6	105	Product E	220
7	106	Product F	130

	A	B	C	D	E
1	OrderID	ProductID	Quantity	Price	Order Value
2	1	101	2	120	240
3	2	103	1	200	200
4	3	105	4	220	880
5	4	106	3	130	390
6	5	102	5	150	750
7	6	104	6	90	540

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

	A	B	C	D
1	ProductID	Product	Price	Ordered
2	101	Product A	120	Ordered
3	102	Product B	150	Ordered
4	103	Product C	200	Ordered
5	104	Product D	90	Ordered
6	105	Product E	220	Ordered
7	106	Product F	130	Ordered

	A	B	C	D	E
1	OrderID	ProductID	Quantity	Price	Order Value
2	1	101	2	120	240
3	2	103	1	200	200
4	3	105	4	220	880
5	4	106	3	130	390
6	5	102	5	150	750
7	6	104	6	90	540

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

	A	B	C
1	ProductID	Product	Price
2	101	Product A	120
3	102	Product B	150
4	103	Product C	200
5	104	Product D	90
6	105	Product E	220
7	106	Product F	130

	A	B	C	D	E
1	OrderID	ProductID	Quantity	Product Name	Total Quantity Sold
2	1	101	2	Product A	2
3	2	103	1	Product C	1
4	3	105	4	Product E	4
5	4	106	3	Product F	3
6	5	102	5	Product B	5
7	6	104	6	Product D	6