MERGE TABLES USING VLOOKUP() IN EXCEL

Ami Rai E.

• The given tables, Table 1 and Tables 2 are to be merged

А	В	С		
Table1				
Content ID	Reaction Type	Date		
101	disgust	07-11-2020		
102	adore	17-06-2021		
103	cherish	18-04-2021		
104	disgust	06-01-2021		
105	interested	23-08-2020		
106	hate	07-12-2020		
107	cherish	11-04-2021		
108	hate	27-01-2021		
109	love	01-04-2021		
110	indifferent	07-11-2020		

Α	В	C
Ta	able 2	
Reaction Type	Sentiment	Score
heart	positive	60
want	positive	70
disgust	negative	0
hate	negative	5
interested	positive	30
indifferent	neutral	20
love	positive	65
super love	positive	75
cherish	positive	70
adore	positive	72

- The common column in both tables is "Reaction Type" (Column B in Table 1, Column A in Table 2)
- Example 1- If reaction type of a content is "disgust", then Sentiment type is "negative" and score is 0
- Example 2- If reaction type of a content is "cherish", then Sentiment type is "positive" and score is 70

- Let's see how Table2 is merged with Table1 using VLOOKUP() function in excel, considering Reaction Type as the common column
- The resulting table will have total 5 columns 3 columns (A to C) from Table 1 and 2 columns (B to C) from Table 2

А	В	С		
Table1				
Content ID	Reaction Type	Date		
101	disgust	07-11-2020		
102	adore	17-06-2021		
103	cherish	18-04-2021		
104	disgust	06-01-2021		
105	interested	23-08-2020		
106	hate	07-12-2020		
107	cherish	11-04-2021		
108	hate	27-01-2021		
109	love	01-04-2021		
110	indifferent	07-11-2020		

А	В	C
Ta	able 2	
Reaction Type	Sentiment	Score
heart	positive	60
want	positive	70
disgust	negative	0
hate	negative	5
interested	positive	30
indifferent	neutral	20
love	positive	65
super love	positive	75
cherish	positive	70
adore	positive	72

- The expected merged table is shown at the bottom
- The columns B and C in Table 2 are merged with Table 1
- The column A in Table 2 is not considered as it is a common column

А	В	С		
Table1				
Content ID	Reaction Type	Date		
101	disgust	07-11-2020		
102	adore	17-06-2021		
103	cherish	18-04-2021		
104	disgust	06-01-2021		
105	interested	23-08-2020		
106	hate	07-12-2020		
107	cherish	11-04-2021		
108	hate	27-01-2021		
109	love	01-04-2021		
110	indifferent	07-11-2020		

Α	В	C				
Table 2						
Reaction Type	Sentiment	Score				
heart	positive	60				
want	positive	70				
disgust	negative	0				
hate	negative	5				
interested	positive	30				
indifferent	neutral	20				
love	positive	65				
super love	positive	75				
cherish	positive	70				
adore	positive	72				

Α	В	С	D	E			
	Merged Table						
Content ID Reaction Type Date Sentiment							
101	disgust	07-11-2020	negative	0			
102	adore	17-06-2021	positive	72			
103	cherish	18-04-2021	positive	70			
104	disgust	06-01-2021	negative	0			
105	interested	23-08-2020	positive	30			
106	hate	07-12-2020	negative	5			
107	cherish	11-04-2021	positive	70			
108	hate	27-01-2021	negative	5			
109	love	01-04-2021	positive	65			
110	indifferent	07-11-2020	neutral	20			

- The formula to get values in D column is:
- D3=VLOOKUP(B3, '[Table 2.xlsx]Sheet1'!\$A:\$C, 2, FALSE)
- 1st part lookup value B3 in Table1 Reaction Type is the common column
- ullet 2nd part range of values where look up is located all values from A to C columns in sheet1 of Table2
- $3^{\rm rd}$ part column number in the range that contains the return value $-2-2^{\rm nd}$ column in the range A to C in Table 2 Sentiment column— if there is a match, return values in that column
- 4th part can be TRUE/FALSE here, it is FALSE need an exact match of the return value

А	В	C		
Table1				
Content ID	Reaction Type	Date		
101	disgust	07-11-2020		
102	adore	17-06-2021		
103	cherish	18-04-2021		
104	disgust	06-01-2021		
105	interested	23-08-2020		
106	hate	07-12-2020		
107	cherish	11-04-2021		
108	hate	27-01-2021		
109	love	01-04-2021		
110	indifferent	07-11-2020		

Α	В	C
Ta	able 2	
Reaction Type	Sentiment	Score
heart	positive	60
want	positive	70
disgust	negative	0
hate	negative	5
interested	positive	30
indifferent	neutral	20
love	positive	65
super love	positive	75
cherish	positive	70
adore	positive	72

Α	В	С	D	E
	Merg	ed Table		
Content ID	Reaction Type	Date	Sentiment	Score
101	disgust	07-11-2020	negative	0
102	adore	17-06-2021	positive	72
103	cherish	18-04-2021	positive	70
104	disgust	06-01-2021	negative	0
105	interested	23-08-2020	positive	30
106	hate	07-12-2020	negative	5
107	cherish	11-04-2021	positive	70
108	hate	27-01-2021	negative	5
109	love	01-04-2021	positive	65
110	indifferent	07-11-2020	neutral	20

- D3=VLOOKUP(B3, '[Table 2.xlsx]Sheet1'!\$A:\$C, 2, FALSE)
- Consider the example
- B3 in Table 1 "disgust"
- Range of values in Table 2 is from columns A to C
- There is a match in A5 in Table 2
- The corresponding value at 2^{nd} column in the range A to C in Table 2 B5- "negative"
- The result can be seen at the cell D3 of merged Table (Table 1)

	А	В	С	
1	Table1			
2	Content ID	Reaction Type	Date	
3	101	disgust	07-11-2020	
4	102	adore	17-06-2021	
5	103	cherish	18-04-2021	
6	104	disgust	06-01-2021	
7	105	interested	23-08-2020	
8	106	hate	07-12-2020	
9	107	cherish	11-04-2021	
10	108	hate	27-01-2021	
11	109	love	01-04-2021	
12	110	indifferent	07-11-2020	

1	А	В	С		
1	Table 2				
2	Reaction Type	Sentiment	Score		
3	heart	positive	60		
4	want	positive	70		
5	disgust	negative	0		
6	hate	negative	5		
7	interested	positive	30		
8	indifferent	neutral	20		
9	love	positive	65		
10	super love	positive	75		
11	cherish	positive	70		
12	adore	positive	72		

	Α	В	С	D	E
1	Merged Table				
2	Content ID	Reaction Type	Date	Sentiment	Score
3	101	disgust	07-11-2020	negative	0
4	102	adore	17-06-2021	positive	72
5	103	cherish	18-04-2021	positive	70
6	104	disgust	06-01-2021	negative	0
7	105	interested	23-08-2020	positive	30
8	106	hate	07-12-2020	negative	5
9	107	cherish	11-04-2021	positive	70
10	108	hate	27-01-2021	negative	5
11	109	love	01-04-2021	positive	65
12	110	indifferent	07-11-2020	neutral	20

- The formula to get values in E column is:
- E3=VLOOKUP(B3, '[Table 2.xlsx]Sheet1'!\$A:\$C, 3, FALSE)
- 1st part lookup value B3 in Table 1 Reaction Type
- ullet 2nd part range of values where look up is located all values from A to C columns in sheet1 of Table2
- 3^{rd} part column number in the range that contains the return value $-3-3^{rd}$ column in the range A to C in Table 2 Score column—if there is a match, return values in that column
- 4th part can be TRUE/FALSE here, it is FALSE need an exact match of the return value

А	В	С			
Table1					
Content ID	Reaction Type	Date			
101	disgust	07-11-2020			
102	adore	17-06-2021			
103	cherish	18-04-2021			
104	disgust	06-01-2021			
105	interested	23-08-2020			
106	hate	07-12-2020			
107	cherish	11-04-2021			
108	hate	27-01-2021			
109	love	01-04-2021			
110	indifferent	07-11-2020			

А	В	С				
Table 2						
Reaction Type	Sentiment	Score				
heart	positive	60				
want	positive	70				
disgust	negative	0				
hate	negative	5				
interested	positive	30				
indifferent	neutral	20				
love	positive	65				
super love	positive	75				
cherish	positive	70				
adore	positive	72				

Α	В	С	D	E		
	Merg	ed Table				
Content ID	Content ID Reaction Type Date Sentiment					
101	disgust	07-11-2020	negative	0		
102	adore	17-06-2021	positive	72		
103	cherish	18-04-2021	positive	70		
104	disgust	06-01-2021	negative	0		
105	interested	23-08-2020	positive	30		
106	hate	07-12-2020	negative	5		
107	cherish	11-04-2021	positive	70		
108	hate	27-01-2021	negative	5		
109	love	01-04-2021	positive	65		
110	indifferent	07-11-2020	neutral	20		

- E3=VLOOKUP(B3, '[Table 2.xlsx]Sheet1'!\$A:\$C, 3, FALSE)
- Consider the example
- B3 in Table 1 "disgust"
- Range of values in Table 2 is from columns A to C
- There is a match in A5 in Table 2
- The corresponding value at $3^{\rm rd}$ column in the range A to C in Table 2 C5- "0"
- The result can be seen at the cell E3 of merged Table (Table 1)

	А	В	С	
1	Table1			
2	Content ID	Reaction Type	Date	
3	101	disgust	07-11-2020	
4	102	adore	17-06-2021	
5	103	cherish	18-04-2021	
6	104	disgust	06-01-2021	
7	105	interested	23-08-2020	
8	106	hate	07-12-2020	
9	107	cherish	11-04-2021	
10	108	hate	27-01-2021	
11	109	love	01-04-2021	
12	110	indifferent	07-11-2020	

	А	В	C
1	Ta	able 2	
2	Reaction Type	Sentiment	Score
3	heart	positive	60
4	want	positive	70
5	disgust	negative	0
6	hate	negative	5
7	interested	positive	30
8	indifferent	neutral	20
9	love	positive	65
10	super love	positive	75
11	cherish	positive	70
12	adore	positive	72

	Α	В	С	D	E	
1	Merged Table					
2	Content ID	Reaction Type	Date	Sentiment	Score	
3	101	disgust	07-11-2020	negative	0	
4	102	adore	17-06-2021	positive	72	
5	103	cherish	18-04-2021	positive	70	
6	104	disgust	06-01-2021	negative	0	
7	105	interested	23-08-2020	positive	30	
8	106	hate	07-12-2020	negative	5	
9	107	cherish	11-04-2021	positive	70	
10	108	hate	27-01-2021	negative	5	
11	109	love	01-04-2021	positive	65	
12	110	indifferent	07-11-2020	neutral	20	

• The formula must be applied to the remaining cells to get the complete table

1	Α	В	C	D	E	
1	Merged Table					
2	Content ID	Reaction Type	Date	Sentiment	Score	
3	101	disgust	07-11-2020	negative	0	
4	102	adore	17-06-2021	positive	72	
5	103	cherish	18-04-2021	positive	70	
6	104	disgust	06-01-2021	negative	0	
7	105	interested	23-08-2020	positive	30	
8	106	hate	07-12-2020	negative	5	
9	107	cherish	11-04-2021	positive	70	
10	108	hate	27-01-2021	negative	5	
11	109	love	01-04-2021	positive	65	
12	110	indifferent	07-11-2020	neutral	20	

Thank you!!