Highline Excel 2016 Class 12: Two Lookup Values in VLOOKUP? Helper Column or Array Formula.

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Helper Column Solution with Join Operator and VLOOKUP

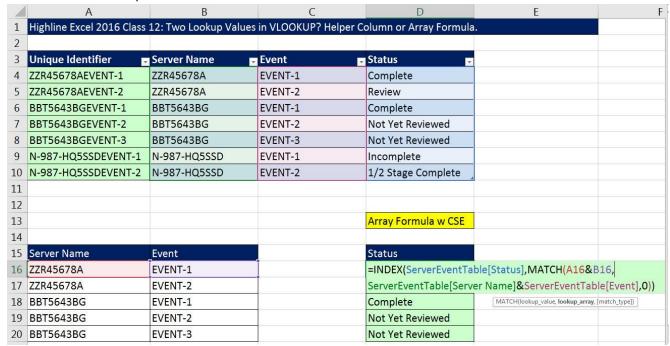
- 1) When we have two lookup values we can:
 - 1. Add a helper column to the front of the lookup table that joins two values together from two fields in the data set that creates a unique identifier so Exact Match Lookup will work with VLOOKUP.
 - 2. Join Two Lookup Values together in the lookup_value argument of VLOOKUP.

• Example:

1	Α	В	C	D
1	Highline Excel 2016 Class	12: Two Lookup Values	in VLOOKUP? Helper Co	olumn or Array Formula.
2				
3	Unique Identifier	Server Name	Event -	Status
4	ZZR45678AEVENT-1	ZZR45678A	EVENT-1	Complete
5	ZZR45678AEVENT-2	ZZR45678A	EVENT-2	Review
6	BBT5643BGEVENT-1	BBT5643BG	EVENT-1	Complete
7	BBT5643BGEVENT-2	BBT5643BG	EVENT-2	Not Yet Reviewed
8	BBT5643BGEVENT-3	BBT5643BG	EVENT-3	Not Yet Reviewed
□9	N-987-HQ5SSDEVENT-1	N-987-HQ5SSD	EVENT-1	Incomplete
10	N-987-HQ5SSDEVENT-2	N-987-HQ5SSD	EVENT-2	1/2 Stage Complete
11				
12			100	
13			Helper Column	
14				
15	Server Name	Event	Status	
16	ZZR45678A	EVENT-1	=VLOOKUP(A16&B16,	ServerEventTable,4,0)
17	ZZR45678A	EVENT-2	R VLOOKUP(lookup_value, table_array	r, col_index_num, [range_lookup])
18	BBT5643BG	EVENT-1	Complete	
19	BBT5643BG	EVENT-2	Not Yet Reviewed	
20	BBT5643BG	EVENT-3	Not Yet Reviewed	

Array Formula with: INDEX and MATCH functions and a Join Array Operations. This formula requires Ctrl + Shift + Enter.

- 1) When we have two lookup values and we are not allowed a helper column in the lookup table, we can:
 - 1. Join Two Lookup Values together in the lookup value argument of MATCH
 - 2. Create a Join Array Operation in the lookup_array argument of MATCH.
 - 3. Use INDEX to select a value from the Status Field.
 - 4. Remember to enter the formula with Ctrl + Shift + Enter because lookup_array argument of MATCH requires it to calculate the array operation correctly.
 - Example:



Array Formula with: INDEX, INDEX and MATCH functions and a Join Array Operations. This formula does NOT require Ctrl + Shift + Enter

- 2) When we have two lookup values and we are not allowed a helper column in the lookup table, we can:
 - 1. Join Two Lookup Values together in the lookup value argument of MATCH
 - 2. Create a Join Array Operation in the lookup_array argument of MATCH.
 - 3. Use INDEX to select a value from the Status Field.
 - 4. With the goal of avoiding Ctrl + Shift + Enter, we can put the Join Array Operation into the array argument of INDEX and put a zero (0) into the row num argument to allow the INDEX to make the Join Array Operation without Ctrl + Shift + Enter.
 - The array argument in INDEX can perform array operations without Ctrl + Shift + Enter.

Not Yet Reviewed

ii. INDEX delivers a range of values rather than a resultant array and therefore does not require Ctrl + Shift + Enter.

• Example: 1 Highline Excel 2016 Class 12: Two Lookup Values in VLOOKUP? Helper Column or Array Formula. 2 3 Unique Identifier Server Name Status Event ZZR45678AEVENT-1 ZZR45678A **EVENT-1** Complete 5 ZZR45678AEVENT-2 ZZR45678A **EVENT-2** Review 6 BBT5643BGEVENT-1 BBT5643BG **EVENT-1** Complete 7 BBT5643BGEVENT-2 BBT5643BG **EVENT-2** Not Yet Reviewed 8 BBT5643BGEVENT-3 BBT5643BG **EVENT-3** Not Yet Reviewed 9 N-987-HQ5SSDEVENT-1 N-987-HQ5SSD **EVENT-1** Incomplete 10 N-987-HQ5SSDEVENT-2 N-987-HQ5SSD **EVENT-2** 1/2 Stage Complete 11 12 Array Formula NO CSE 13 14 15 Server Name Event =INDEX(ServerEventTable[Status],MATCH(A16&B16,INDEX(16 ZZR45678A **EVENT-1** ServerEventTable[Server Name]&ServerEventTable[Event],0),0)) 17 ZZR45678A **EVENT-2** 18 BBT5643BG **EVENT-1** Complete 19 BBT5643BG **EVENT-2** Not Yet Reviewed 20 BBT5643BG **EVENT-3**

Cumulative List of Keyboards Throughout Class:

- 1) Esc Key:
 - i. Closes Backstage View (like Print Preview).
 - ii. Closes most dialog boxes.
 - iii. If you are in Edit mode in a Cell, Esc will revert back to what you had in the cell before you put the Cell in Edit mode.
- 2) F2 Key = Puts formula in Edit Mode and shows the rainbow colored Range Finder.
- 3) SUM Function: Alt + =
- 4) **Ctrl + Shift + Arrow** = Highlight column (Current Region).
- 5) Ctrl + Backspace = Jumps back to Active Cell
- 6) Ctrl + Z = Undo.
- 7) Ctrl + Y = Undo the Undo.
- 8) **Ctrl + C** = Copy.
- 9) **Ctrl + X** = Cut.
- 10) Ctrl + V = Paste.
- 11) **Ctrl + PageDown** = expose next sheet to right.
- 12) Ctrl + PageUp = expose next sheet to left.
- 13) Ctrl + 1 = Format Cells dialog box, or in a chart it opens Format Chart Element Task Pane.
- 14) **Ctrl + Arrow**: jumps to the bottom of the "**Current Region**", which means it jumps to the last cell that has data, right before the first empty cell.
- 15) Ctrl + Home = Go to Cell A1.
- 16) **Ctrl + End** = Go to last cell used.
- 17) Alt keyboards are keys that you hit in succession. Alt keyboards are keyboards you can teach yourself by hitting the Alt key and looking at the screen tips.
 - i. Create PivotTable dialog box: Alt, N, V
 - ii. Page Setup dialog box: Alt, P, S, P
 - iii. Keyboard to open Sort dialog box: Alt, D, S
- 18) ENTER = When you are in Edit Mode in a Cell, it will put thing in cell and move selected cell DOWN.
- 19) CTRL + ENTER = When you are in Edit Mode in a Cell, it will put thing in cell and keep cell selected.
- 20) TAB = When you are in Edit Mode in a Cell, it will put thing in cell and move selected cell RIGHT.
- 21) SHIFT + ENTER = When you are in Edit Mode in a Cell, it will put thing in cell and move selected cell UP.
- 22) **SHIFT + TAB** = When you are in Edit Mode in a Cell, it will put thing in cell and move selected cell LEFT.
- 23) Ctrl + T = Create Excel Table (with dynamic ranges) from a Proper Data Set.
 - i. Keyboard to name Excel Table: Alt, J, T, A
 - ii. **Tab** = Enter Raw Data into an Excel Table.
- 24) Ctrl + Shift + ~ (`) = General Number Formatting Keyboard.
- 25) **Ctrl + ;** = Keyboard for hardcoding today's date.
- 26) **Ctrl + Shift + ;** = Keyboard for hardcoding current time.
- 27) Arrow Key = If you are making a formula, Arrow key will "hunt" for Cell Reference.
- 28) Ctrl + B = Bold the Font
- 29) Ctrl + * (on Number Pad) or Ctrl + Shift + 8 = Highlight Current Table.
- 30) Alt + Enter = Add Manual Line Break (Word Wrap)
- 31) Ctrl + P = Print dialog Backstage View and Print Preview
- 32) **F4 Key** = If you are in Edit mode while making a formula AND your cursor is touching a particular Cell Reference, F4 key will toggle through the different Cell References:
 - i. **A1** = Relative
 - ii. \$A\$1 = Absolute or "Locked"

- iii. **A\$1** = Mixed with Row Locked (Relative as you copy across the columns AND Locked as you copy down the rows)
- iv. **\$A1** = Mixed with Column Locked (Relative as you copy down the rows AND Locked as you across the columns)
- 33) Ctrl + Shift + 4 = Apply Currency Number Formatting
- 34) **Tab key** = When you are selecting a Function from the Function Drop-down list, you can select the function that is highlighted in blue by using the Tab key.
- 35) **F9 Key** = To evaluate just a single part of formula while you are in edit mode, highlight part of formula and hit the F9 key.
 - i. If you are creating an Array Constant in your formula: Hit F9.
 - ii. If you are evaluating the formula element just to see what that part of the formula looks like, REMEMBER: to Undo with Ctrl + Z.
- 36) Alt, E, A, A = Clear All (Content and Formatting)
- 37) Evaluate Formula One Step at a Time Keyboard: Alt, M, V
- 38) Keyboard to open Sort dialog box: Alt, D, S
- 39) Ctrl + Shift + L = Filter (or Alt, D, F, F) = Toggle key for Filter Drop-down Arrows
- 40) Ctrl + N = Open New File
- 41) **F12** = Save As (Change File Name, Location, File Type)
- 42) Import Excel Table into Power Query Editor: Alt, A, P, T
- 43) Ctrl + 1 (When Chart element in selected): Open Task Pane for Chart Element
- 44) **F4 Key** = If you are in Edit mode while making a formula AND your cursor is touching a particular Cell Reference, F4 key will toggle through the different Cell References:
 - i. **A1** = Relative
 - ii. **\$A\$1** = Absolute or "Locked"
 - iii. **A\$1** = Mixed with Row Locked (Relative as you copy across the columns AND Locked as you copy down the rows)
 - iv. \$A1 = Mixed with Column Locked (Relative as you copy down the rows AND Locked as you across the columns)
- 45) Keyboard to open Scenario Manager = Alt, T, E
- 46) Ctrl + Tab = Toggle between Excel Workbook File Windows
- 47) **Ctrl + Shift + F3** = Create Names From Selection
- 48) Ctrl + F3 = open Name Manager
- 49) **F3** = Paste Name or List of Names
- 50) Alt + F4 = Close Active Window
- 51) Window Key + Up Arrow = Maximize Active Window
- 52) **Ctrl + Shift + Enter** = Keystroke to enter Array Formulas that: 1) have a function argument that requires it, or 2) whether or not you are entering the Resultant Array into multiple cells simultaneously.
- 53) **Ctrl + /** = Highlight current Array

New In This Video:

54) None