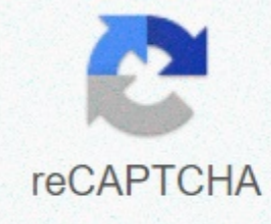




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Make a list in excel from unique values

This is the last part of excel's unique set of values showing how to get a list of unique/unique values in a column by using a formula and how to fine-tune this formula for different data sets. You'll also learn how to quickly get a separate list using the Excel Advanced Filter and how to extract unique rows using Double Remover. In some recent articles, we discussed different methods to count and find unique values in Excel. If you've had the opportunity to read these tutorials, you already know how to get a unique or separate list by identifying, filtering, and copying. But it's a little long, and far away not only, way to extract unique values in Excel. You can do it much faster by using a special formula, and in an instant I'll show it to you and some other techniques. Tip. To quickly get unique values in the latest version of Excel 365 that supports dynamic arrays, use the UNIQUE function as explained in the linked tutorial above. How to get unique values in Excel to avoid confusion, first of all, let's agree on what we call unique values in Excel. Unique values are the values that exist in the list only once. For example: To extract a list of unique values in Excel, use one of the following formulas. Array Unique Values Formula (completed by pressing Ctrl + Shift + Enter): =IFERROR(INDEX(\$A\$2:\$A\$10, MATCH(0, COUNTIF(\$B\$1:B1,\$A\$2:\$A\$10) + (COUNTIF(\$A\$2:\$A\$10, \$A\$2:\$A\$10)<>1), 0)),) Standard Unique Values Formula (completed by pressing Enter): =IFERROR(INDEX(\$A\$2:\$A\$10, MATCH(0, INDEX(COUNTIF(\$B\$1:B1, \$A\$2:\$A\$10)+(COUNTIF(\$A\$2:\$A\$10, \$A\$2:\$A\$10)<>1), 0, 0)),) In the formulas above, the following references are used: A2:A10 - The source list. B1 - Top cell of the unique list minus 1. In this example, we start the unique list in B2, so we provide B1 formula (B2-1=B1). If your unique list starts, manage, in cell C3, change \$B \$1:B1 to \$C \$2:C2. Note. Because the formula refers to the cell above the first cell in the unique list, which is usually the column heading (B1 in this example), make sure that your header has a unique name that doesn't appear anywhere else in the column. In this example, we extract unique names from column A (more specifically from range A2:A20), and the following screenshots illustrate the array formula in action: The detailed explanation of formula logic is provided in a separate section, so you can use a formula to extract unique values on excel worksheets: Adjust one of the formulas according to your data set. Enter the formula in the first cell of the unique list (B2 in this example). If you are using the array formula, press Ctrl + Shift + Enter. Copy the formula down as long as necessary by dragging the fill handle. Because the two unique value formulas are wrapped in the IFERROR function, you Copy the formula by the end of the table, and it won't mess up your data with any errors, no matter how few unique values have been extracted. How to get separate values in Excel (Unique Duplicate Instances + Duplicate Instances 1) As you've already guessed from the title of this section, different values in Excel are all different values in the list, that is, unique values and first instances of duplicate values. For example: To get a separate list in Excel, use the following formulas. Separate array formula (requires pressing Ctrl + Shift + Enter): =IFERROR(INDEX(\$A\$2:\$A \$10, MATCH(0, COUNTIF(\$B\$1:B1, \$A\$2:\$A\$10),)) Standard Separate Formula: =IFERROR(INDEX(\$A\$2:\$A\$10, MATCH(0, INDEX(COUNTIF(\$B\$1:B1, \$A\$2:\$A\$10), 0, 0),)) Where: A2:A10 is the table of authority. B1 is the cell above the first cell in the list. In this example, the clear list begins in cell B2 (this is the first cell in which you enter the formula), so that you refer to B1. If your source list contains blank cells, the clear formula we just talked about will return zero for each blank row, which can be a problem. To fix this, improve the formula a little further: Array formula for extracting separate values that do not include blanks: =IFERROR(INDEX(\$A\$2:\$A\$10, MATCH(0, COUNTIF(\$B\$1:B1, \$A\$2:\$A\$10&#x20;)+ IF(ISTEXT(\$A\$2:\$A\$10)=FALSE,1,0), 0)),) as a quick reminder, in the formulas above, A2:A10 is the source list, and B1 is a cell just above the first cell in the clear list . you may need to get a list of separate case-sensitive values. To do this, use the following array formula, where A2:A10 is the source list, and B1 is the cell above the first cell in the most notable list: an array formula for individual case-sensitive values (requires pressing Ctrl + Shift + Enter) =IFERROR(INDEX(\$A\$2:\$A\$10, match(0, Frequency(IF(Exact\$A\$2:\$A\$10,transpose(\$B\$1:B1),MATCH (Row(\$A\$2:\$A \$10), Row (\$A\$2:\$A\$10)), MATCH (ROW(\$A\$2:\$A\$10), ROW(\$A \$2:\$A\$10))),) How the unique/unique formula is written specifically for curious and thoughtful Excel users who not only want to know the formula but fully understand its nuts and bolts. , or COUNTIF + IF. For our in-depth analysis, let's use the array formula that extracts a list of different values because everyone else Discussed in this guide are improvements or variations of this basic one: =IFERROR(INDEX(\$A\$2:\$A \$10, MATCH(0, COUNTIF(\$B\$1:B1, \$A\$2:\$A\$10),))

For starters, let's cast the clear IFERROR function, which is used in one goal to prevent #N/A errors when the number of cells in which you copied the formula exceeds the number of different values in the source list. And now, let's break down the center part of our clear formula: COUNTIF (range, criteria) returns the number of cells in the specified condition-answering range. In this example, COUNTIF(\$B\$1:B1, \$A\$2:\$A\$10) returns an array of 1 and 0 based on whether one of the values of the source list (\$A\$2:\$A\$10) appears somewhere in the clear list (\$B 1:B1). If the value is found, the formula returns 1, otherwise - 0. In particular, in cell B2, COUNTIF(\$B\$1:B1, \$A\$2:\$A\$10) becomes: COUNTIF(obviously, {Ronnie; David; Sally; Jeremy; Robert; David; Robert; Tom; Andy; Sally}) and repeats: {0;0;0;0;0;0;0;0;0;0} because none of the source list items (criteria) appear in the range where the function searches for a match. In this case, a range (\$B \$1:B1) consists of a single item - unique. MATCH(lookup_value, lookup_array, [match_type]) returns the relative position of the test test entry in the array. In this example, lookup_value is 0, resulting in MATCH(0,COUNTIF(\$B\$1:B1, \$A\$2:\$A\$10), 0) becomes MATCH(0, {0;0;0;0;0;0;0;0;0;0},0) and returns 1 because our MATCH function takes the first value exactly equal to the test test value (remember, the test test value is 0). INDEX(array, row_num, [column_num]) returns a value in an array based on the specified row and column numbers (optional). In this example, INDEX(\$A\$2:\$A\$10, 1) becomes: INDEX({Ronnie; David; Sally; Jeremy; Robert; David; Robert; Tom; Sally}, 1) and returns Ronnie. When the formula is copied down the column, the specified list (\$B\$1:B1) expands because the reference to the second cell (B1) is a relative reference that changes depending on the relative position of the cell in which the formula moves. Therefore, when copied to cell B3, COUNTIF(\$B\$1:B1, \$A\$2:\$A\$10) changes to COUNTIF(\$B\$1:B2, \$A\$2:\$A\$10), and becomes: COUNTIF({Offside; Ronnie}, [Ronnie; David; Sully; Jeremy; David; Robert; Sally]), 0),) and repeats: {1;0;0;0;0;0;0;0;0;0}because one Ronnie is in the range \$B\$1:B2. MATCH(0,{1;0;0;0;0;0;0;0;0;0},0) then returns 2, because 2 is the relative position of the first 0 in the array. And finally, INDEX(\$A \$2:\$A \$10, 2) returns the value from the second row, which is David. Tip. For a better understanding of formula logic, you can select different parts of the formula in the formula bar and press F9 to see what a selected part evaluates: If you're still having trouble understanding the formula, you can check out the following items For a detailed explanation of how the INDEX/MATCH: INDEX & MATCH contact worked as a better alternative to Excel VLOOKUP. As mentioned before, the other formulas discussed in this tutorial are based on the same logic. with only a few changes: Unique Values Formula - contains another COUNTIF function that does not include in the unique list all items that appear in the source list more than once: COUNTIF(\$A\$2:\$A\$10, \$\$A\$2:\$A\$10)<>11. Different value formula ignoring blanks - here you add an IF function that prevents blank cells from being added to the list: IF(\$A\$2:\$A\$13=-1,0). A formula of separate text values ignores numbers - you use the ISTEEXT function to check whether a value is text, and the IF function to turn off all other types of values, including blank cells: IF(ISTEXT(\$A\$2:\$A\$13)=FALSE,1,0). If you don't want to waste time understanding the mysterious twists and twists of the unique value formulas, you can quickly get a list of individual values by using the advanced filter. The steps listed below. Select the column of data from which you want to extract individual values. Go to the Data tab & Sort & Filter and click the Advanced button: In the Advanced Filter dialog box, select the following: Check Copy to Another Position Options button. In the List range box, verify that the source range is displayed correctly. In the Copy to box, enter the upper cell of the target range. Keep in mind that you can copy the filtered data only to the active page. Select only the unique records, click the OK button, and check the result: Note that although the advanced filter option is called only unique records, it extracts separate values, that is, unique values and the first events of duplicate values. In the last part of this tutorial, let me show you our own solution to find and extract unique and separate values in Excel sheets. This solution combines the versatility of Excel formulas and the simplicity of the advanced filter. In addition, it provides some unique features such as: finding and extracting unique/separate rows based on values in one or more columns. Find, highlight, and copy unique values to any other location, in the same workbook, or in a different workbook. And now, let's see the double remover tool in action. Assume that you have a summary table created by consolidating data from several other tables. Obviously, this summary table contains many duplicate rows and your tasks are to extract unique rows that appear in the table only once, or separate rows including unique duplicate instances and 1. Either way, with the double remover add-in the work is done in 5 quick steps. Select a sea cell from the source table and click the Remove Duplicates button on the Ablebits Data tab, in the Dedupe group. The Deduplication Wizard will run and select the entire table. So, just click Next To Next level. Select the type of value you want to find and click Next: Unique +1 (clear) occurrences In this example, we aim to extract unique rows that appear in the source table only once, so that we select a unique option: Tip. As you can see in the screenshot above, there are also 2 options for duplicate values, just remember if you need to infer another worksheet. Select one or more columns to test for unique values. In this example, we want to find unique rows based on values in all 3 columns (order number, first and last name), so we select All. Select the action to perform on the unique values found. The following options are available to you: Mark unique values Select the same unique values in the Copy to another location status column Because we are extracting unique rows, select Copy to another location, and then specify exactly where you want to copy them - Active Sheet (select Custom Position and specify the top cell of the target range), New worksheet, or New Workbook. In this example, let's prefer the new sheet: click the Finish button and finish! Did you like this quick and simple way to get a list of unique values or lines in Excel? If so, I recommend you download the kit version below and try. Dual remover as well as all the other time-saving tools we have are included with Ultimate Suite for Excel. If you are satisfied with the results and decide to buy a license, we are pleased to offer you this very special opportunity: promo code for Ultimate Suite - an exclusive offer for our blog readers! Downloads available Find unique values in Excel - Ultimate Suite sample workbook (.xlsx) - Evaluation version (.zip)

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