

# How to Find Common Values in Two Excel Columns

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January 3, 2026

## RECOMMENDED CITATION

stats writer (2026). *How to Find Common Values in Two Excel Columns*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=110795>

## Understanding List Intersection in Data Analysis

The process of finding the intersection of two datasets--that is, identifying the elements that are common to both sets--is a fundamental operation in data management and analysis. When working within Excel, achieving this goal requires a precise combination of logical and lookup functions. While simple visual comparison might suffice for short lists, larger datasets necessitate an automated, formula-driven approach to ensure accuracy and efficiency. This article details an expert method using a powerful combination of functions to isolate common values between any two specified column ranges, turning a complex data task into a streamlined, repeatable process.

Traditionally, analysts might rely on the IF function paired with **COUNTIF** to compare lists. The **COUNTIF** function checks if an item from List A exists in List B, returning a number greater than zero if it is present. The IF function then evaluates this result, returning the item itself if the count is positive, or a blank if the item is unique to List A. However, a more robust and frequently faster method, particularly when dealing with exact matches, involves leveraging the power of the MATCH function integrated with error handling.

The core benefit of using the MATCH function for finding the intersection lies in its efficiency in position lookup. Instead of counting occurrences, **MATCH** attempts to locate the relative position of a lookup value within a specified range. If the value is found, it returns a position index (a number); if not, it returns a standard Excel error, specifically **#N/A**. This predictable error output is the key to applying logical tests, allowing us to neatly separate common elements from unique ones using error-checking functions.

### The Essential Formula for Intersection Identification

The following powerful formula encapsulates the necessary three-step logic: lookup, error checking, and conditional output. It is designed to iterate through your primary list (List A, starting at cell **A2**) and check for the presence of each item within your secondary list (List B, specified as the absolute reference range **\$B\$2:\$B\$11**). Using absolute referencing for the lookup range is crucial, as it ensures that the range does not shift as the formula is copied down the column, maintaining the integrity of the comparison for every row.

You can use the following formula to find the intersection of two column lists in Excel:

```
=IF(ISERROR(MATCH(A2,$B$2:$B$11,0)),"",A2)
```

This particular example finds all of the common values between the range **A2:A11** and **B2:B11**.

In plain language, this formula asks Excel: "If searching for the value in **A2** within the fixed range

**B2:B11** results in an error (meaning it wasn't found), then return a blank value (""). Otherwise (if a match was found), return the original value found in cell **A2**." This robust conditional logic is what successfully filters the original list into the desired intersection set.

## Step-by-Step Implementation: Setting Up the Data Example

The following example shows how to use this formula in practice.

To illustrate this technique, let us consider a practical scenario involving two lists of professional basketball team names. Our objective is to find the common elements: which team names appear on both lists? This setup requires careful initial data entry and range designation to ensure the formula works correctly across the entire dataset.

Suppose we have the following two lists of basketball team names in Excel:

	A	B	C	D	E
1	<b>Team 1</b>	<b>Team 2</b>			
2	Mavs	Warriors			
3	Spurs	Kings			
4	Rockets	Celtics			
5	Kings	Nuggets			
6	Warriors	Mavs			
7	Nets	Hawks			
8	Lakers	Magic			
9	Thunder	Blazers			
10	Blazers	Rockets			
11	Jazz	Knicks			
12					
13					
14					
15					

Our goal is to populate a new, clean column, Column D, which will only contain the team names present in both Column A (our primary list) and Column B (our lookup range). It is essential that both lists are clean and free of extraneous spaces, as the exact match criteria in the formula is highly sensitive to text discrepancies.

## Applying the Formula and Generating the Intersection List

Suppose we would like to find the intersection between these two lists, i.e. find the team names

that appear in both lists.

The application of the formula begins in the first cell of our output column, cell **D2**. We input the precise formula derived earlier, ensuring that the lookup value references the corresponding cell in List A (**A2**) and the lookup array uses absolute references (**\$B\$2:\$B\$11**) to fix the comparison range. This ensures that the lookup range remains static while the formula is copied down.

To do so, we can type the following formula into cell **D2**:

```
=IF(ISERROR(MATCH(A2,$B$2:$B$11,0)),"",A2)
```

Once the formula is correctly entered in **D2**, we utilize Excel's fill handle to copy the formula down to each remaining cell in Column D. This action automatically generates the complete intersection list by adjusting the relative reference (A2, A3, A4, etc.) while maintaining the absolute reference for the secondary list, instantly filtering out all non-matching values.

We can then click and drag this formula down to each remaining cell in column D:

	A	B	C	D	E	F
1	<b>Team 1</b>	<b>Team 2</b>		<b>Intersection of Teams</b>		
2	Mavs	Warriors		Mavs		
3	Spurs	Kings				
4	Rockets	Celtics		Rockets		
5	Kings	Nuggets		Kings		
6	Warriors	Mavs		Warriors		
7	Nets	Hawks				
8	Lakers	Magic				
9	Thunder	Blazers				
10	Blazers	Rockets		Blazers		
11	Jazz	Knicks				
12						
13						
14						
15						

Column D now only displays the team names that appear in both lists.

The resulting data in Column D is the precise mathematical intersection of the original two lists. It represents the set of teams that are common to both sets. The presence of blank cells is a key

feature of this method; while it does not condense the list, it visually separates the matching items, making them easy to identify, filter, or copy for further analysis.

For example, we can see that the following team names appear in both lists:

Mavs  
Rockets  
Kings  
Warriors  
Blazers

This represents the intersection between these two column lists.

## Technical Explanation: Deconstructing the Formula Logic

**=IF(ISERROR(MATCH(A2,\$B\$2:\$B\$11,0)), "", A2)**

The logical heart of this intersection technique lies in the nested functions, starting with the innermost component: the **MATCH** function. The formula `MATCH(A2, $B$2:$B$11, 0)` attempts to find the exact position of the value in **A2** within the fixed lookup array **B2:B11**. If the item is found, it returns a numeric index; if not, it returns the **#N/A** error value.

First, this formula uses the **MATCH** function to return the relative position of the team name in cell **A2** in the range **B2:B11**.

The error output from **MATCH** is then captured by the **ISERROR** function. **ISERROR** simplifies the complex lookup result into a simple Boolean value: **TRUE** if an error occurred (no match found), or **FALSE** if a number was returned (match found). This conversion is essential for the next step of the conditional test.

We then use the **ISERROR** function to return a blank value if the team name in cell **A2** cannot be found in the range **B2:B11**.

Finally, the external **IF** function dictates the final output based on the **ISERROR** result. If **ISERROR** is **TRUE** (no match), the formula executes the `value_if_true` argument, returning "" (a blank cell). If **ISERROR** is **FALSE** (a match was found), the formula executes the `value_if_false` argument, which is the cell reference **A2**, thus displaying the matching value.

Otherwise, we simply return the team name from cell **A2**.

We repeat this process for each cell in column A and the end result is that the formula only returns the team names that appear in both lists.

## Alternative Methods and Advanced Considerations

While the IF/ISERROR/MATCH formula is highly effective for moderate list comparisons, analysts dealing with extremely large or regularly updated datasets should consider alternative Excel features. For instance, utilizing Power Query (Get & Transform Data) offers a superior approach by allowing users to load both lists as structured tables and perform an 'Inner Join' merge operation. An Inner Join is mathematically equivalent to a set intersection, returning only the rows where the joining key (the team name) is present in both source tables. This method is highly scalable and better suited for enterprise-level data integration.

When applying the formula method, two critical best practices must be maintained. First, ensure data consistency: all items being compared must share the same data type. A number stored as text in one column will not match a true numeric value in the second column, even if they appear identical. Second, remember that IF/ISERROR/MATCH recalculates frequently. For lists exceeding tens of thousands of rows, this formula can impact sheet performance, making dynamic array formulas (like **FILTER** or **XMATCH** in modern Excel versions) or the Power Query solution a more optimal choice for large-scale operations.

Furthermore, a simpler visual alternative exists through Conditional Formatting. By applying a conditional formatting rule that uses the same **MATCH** logic (e.g., =MATCH(A2,\$B\$2:\$B\$11,0)), you can highlight all matching items across both lists without generating a new output column. This is perfect for quick data audits where the final condensed list is not strictly required.

## Conclusion: Mastering Data Comparison in Excel

The ability to quickly and accurately identify the common elements between two distinct lists--the set intersection--is a cornerstone of proficient data analysis in Excel. By combining the powerful conditional logic of the IF function with the robust lookup capabilities of the **MATCH** function and the essential error trapping provided by the ISERROR function, users can construct a single, versatile formula that filters data efficiently and reliably.

This method not only generates a definitive list of shared values but also provides a template for applying sophisticated conditional logic to other data comparison tasks. Mastering the nesting of **IF**, **ISERROR**, and **MATCH** opens the door to automating complex data validation and reporting requirements, moving beyond manual comparisons to leverage the true analytical power of Excel formulas. Whether you rely on this formula for quick filtering or transition to advanced tools like Power Query for scalability, understanding this foundational logic is key to high-level data management.