

# How to Delete Alternate Columns in Excel: A Comprehensive Tutorial

Authored by  
**Mohammed loot**

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## RECOMMENDED CITATION

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In the realm of data analysis and preparation, professionals frequently face the need to clean or restructure large [datasets](#) by systematically removing columns. One of the most challenging requirements is the necessity to **delete every other column** within an extensive [spreadsheet](#). While [Microsoft Excel](#) offers intuitive tools for managing contiguous data ranges, attempting to select and remove alternating columns manually across hundreds of entries is highly inefficient and significantly increases the potential for error.

This comprehensive tutorial introduces a highly robust and efficient methodology that strategically leverages Excel's powerful [Sort & Filter](#) functionality. By temporarily manipulating the column order, we can transform a complex non-contiguous selection task into a simple, single bulk deletion operation. This structured approach is fundamental for maintaining **data integrity** and accelerating time-consuming data preparation workflows.

To illustrate this technique, consider a typical business scenario: you possess a spreadsheet containing detailed sales figures spanning eight consecutive years (Year 1 through Year 8). Your current analytical requirements dictate that you must retain only the data corresponding to the odd-numbered years (Year 1, Year 3, Year 5, and Year 7), thereby requiring the systematic disposal of all even-numbered year columns.

	A	B	C	D	E	F	G	H
1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
2	150	200	120	150	110	100	200	180
3	100	205	180	180	150	95	205	180
4	78	180	150	190	175	90	190	140
5	90	140	150	203	180	140	158	190
6	91	190	135	200	190	93	160	200
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The following detailed, five-step process demonstrates precisely how to execute this transformation reliably, resulting in a refined table that contains only the necessary alternating

columns, ready for downstream analysis:

	A	B	C	D	E	F
1	<b>Year 1</b>	<b>Year 3</b>	<b>Year 5</b>	<b>Year 7</b>		
2	150	120	110	200		
3	100	180	150	205		
4	78	150	175	190		
5	90	150	180	158		
6	91	135	190	160		
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## Step 1: Setting Up the Initial Dataset in Microsoft Excel

The crucial first step involves ensuring that your source data is accurately structured and positioned within the Excel worksheet. This sophisticated technique is universally applicable, whether your dataset consists of numerical values, extensive text strings, or complex formulas. For the purpose of this demonstration, we will continue utilizing the eight-year sales data example, which is organized horizontally across eight columns (A through H) with multiple rows detailing corresponding sales performance metrics.

It is paramount that the entire data range intended for processing is clearly delineated before proceeding to the column manipulation phase. For this horizontal sorting method to function flawlessly, you must ensure that there are no blank rows or columns interrupting the continuous data range you are working with. If your data structure already includes a descriptive header row, such as the 'Year 1', 'Year 2', etc., featured in our example, this setup is perfect, as the upcoming sorting procedure will encompass the entire data block, including these headers.

We begin by ensuring the foundational data is correctly entered and displayed, visually represented below:

	A	B	C	D	E	F	G	H
1	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>	<b>Year 7</b>	<b>Year 8</b>
2	150	200	120	150	110	100	200	180
3	100	205	180	180	150	95	205	180
4	78	180	150	190	175	90	190	140
5	90	140	150	203	180	140	158	190
6	91	190	135	200	190	93	160	200
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Once the data is verified and accurately represented, we can proceed directly to the core inventive step of this process: establishing a temporary, systematic mechanism that allows us to clearly differentiate the columns designated for retention from those marked for disposal.

## Step 2: Creating a Control Row for Selection

Standard Excel selection shortcuts are inadequate for efficiently handling the non-contiguous selection required for alternating columns across a large scale. Therefore, we must introduce a temporary, systematic indexing system--commonly referred to as a **helper row**--to provide the necessary sorting criteria. This temporary row is pivotal, as it allows us to group columns for subsequent mass deletion, effectively automating the selection process.

To implement the helper row, first, **right-click** on the existing first row (which contains your column headers). From the resulting contextual menu, select **Insert**. This action seamlessly generates a new, empty row directly above your current data, typically designated as Row 1, shifting all of your core content down by one row.

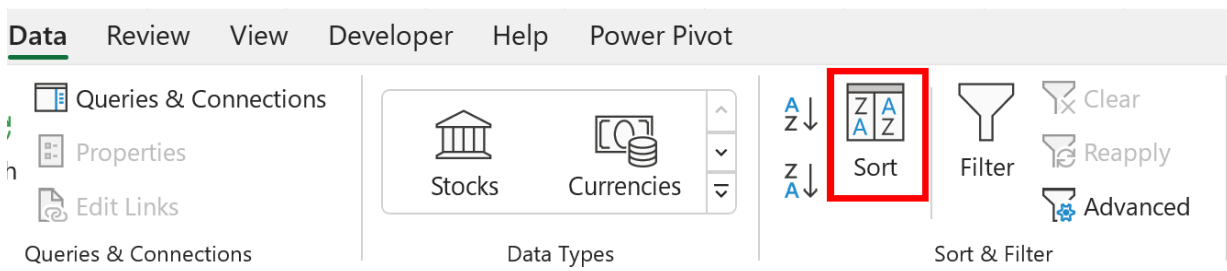


	A	B	C	D	E	F	G	H
1	Keep	Delete						
2	Year 1	Year 2	 Year 3	Year 4	Year 5	Year 6	Year 7	Delete 8
3	150	200	120	150	110	100	200	180
4	100	205	180	180	150	95	205	180
5	78	180	150	190	175	90	190	140
6	90	140	150	203	180	140	158	190
7	91	190	135	200	190	93	160	200
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### Step 3: Leveraging the Sort Functionality to Group Columns

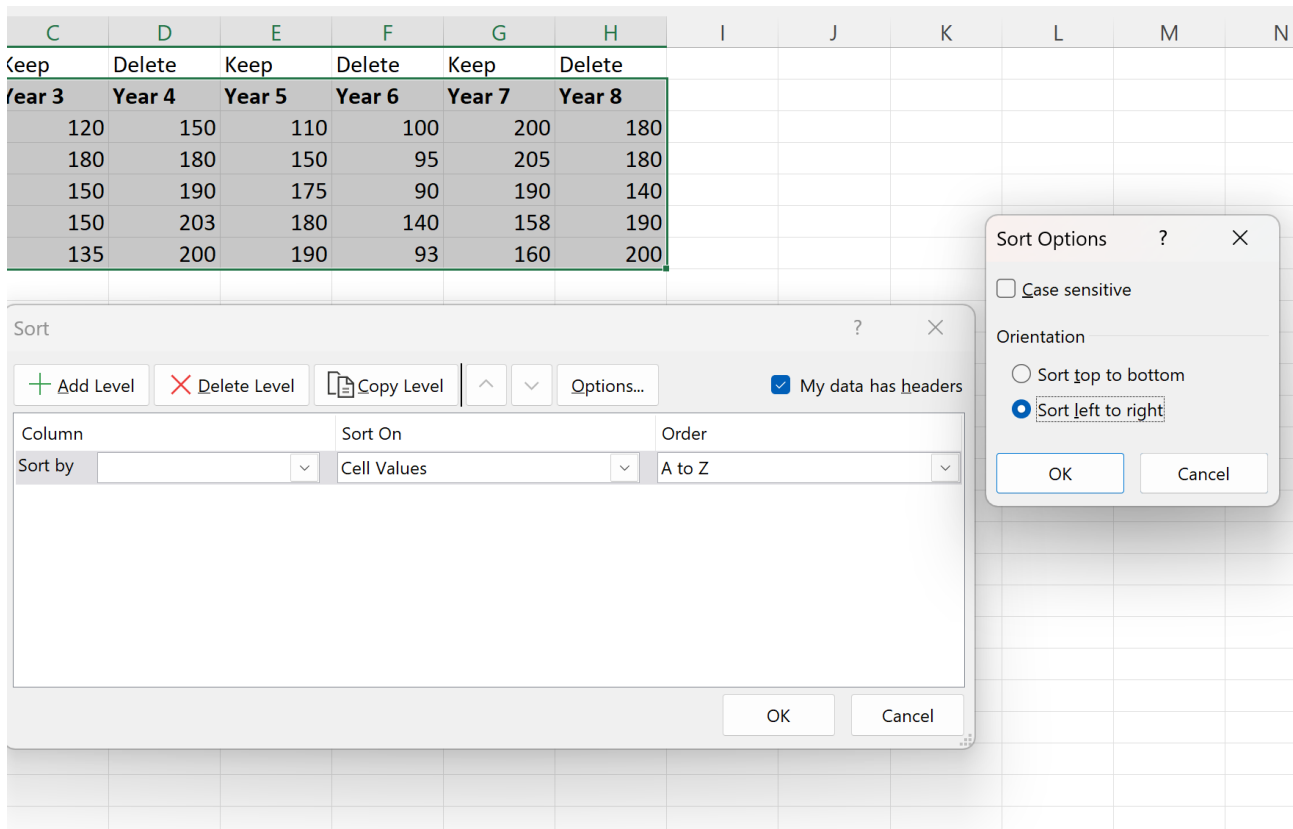
With the temporary control row now fully implemented, the main objective shifts to physically rearranging the columns. We need to utilize Excel's sorting mechanisms to group all the "Delete" columns contiguously, thereby transforming the task into a single, straightforward deletion action. This requires using the powerful **Sort** feature, but with a critical adjustment: we must instruct Excel to sort horizontally (left-to-right) rather than the standard vertical (top-to-bottom) orientation.

Begin by selecting the entire data range, which must include the newly created control row. For our ongoing example, this comprehensive range spans from cell **A1** through **H7**. Next, navigate to the **Data** tab located on the main ribbon interface. Within the **Sort & Filter** group, locate and click the **Sort** icon. This action will immediately open the dedicated Sort dialog box.



Crucially, inside the Sort dialog box, the default setting is configured for vertical sorting of rows. To

achieve our desired horizontal reorganization, click the **Options** button, which is typically situated near the top or bottom of the Sort window. In the resulting sub-dialog, explicitly select the **Sort left to right** option, and then confirm by clicking **OK**. This essential configuration change instructs [Microsoft Excel](#) to reorganize the entire columns based on criteria, rather than just rearranging the rows.



Returning to the main Sort dialog box, utilize the **Sort by** dropdown menu and select **Row 1**. This selection directs Excel to use the categorical values contained within our helper row ("Keep" and "Delete") as the definitive basis for the sorting order. Ensure that the **Order** is set to "A to Z" or "Smallest to Largest"--since "Delete" precedes "Keep" alphabetically, this ordering guarantees that all unwanted columns will be placed together. Finally, click **OK** to execute the horizontal sort operation.

	A	B	C	D	E	F	G	H	I
1	Keep	Delete	Keep	Delete	Keep	Delete	Keep	Delete	
2	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>	<b>Year 7</b>	<b>Year 8</b>	
3	150	200	120	150	110	100	200	180	
4	100	205	180	180	150	95	205	180	
5	78	180	150	190	175	90	190	140	
6	90	140	150	203	180	140	158	190	
7	91	190	135	200	190	93	160	200	
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Sort

My data has headers

Row: Row 1 | Sort On: Cell Values | Order: A to Z

OK Cancel

Once the horizontal sort is complete, all columns marked "Delete" (corresponding to Year 2, Year 4, Year 6, and Year 8) will be automatically relocated to the far left side of the data range. These will be immediately followed by all the columns marked "Keep" (Year 1, Year 3, Year 5, Year 7). This strategic grouping is the culmination of our preparatory steps, successfully isolating all the unwanted data into a single, easily selectable block.

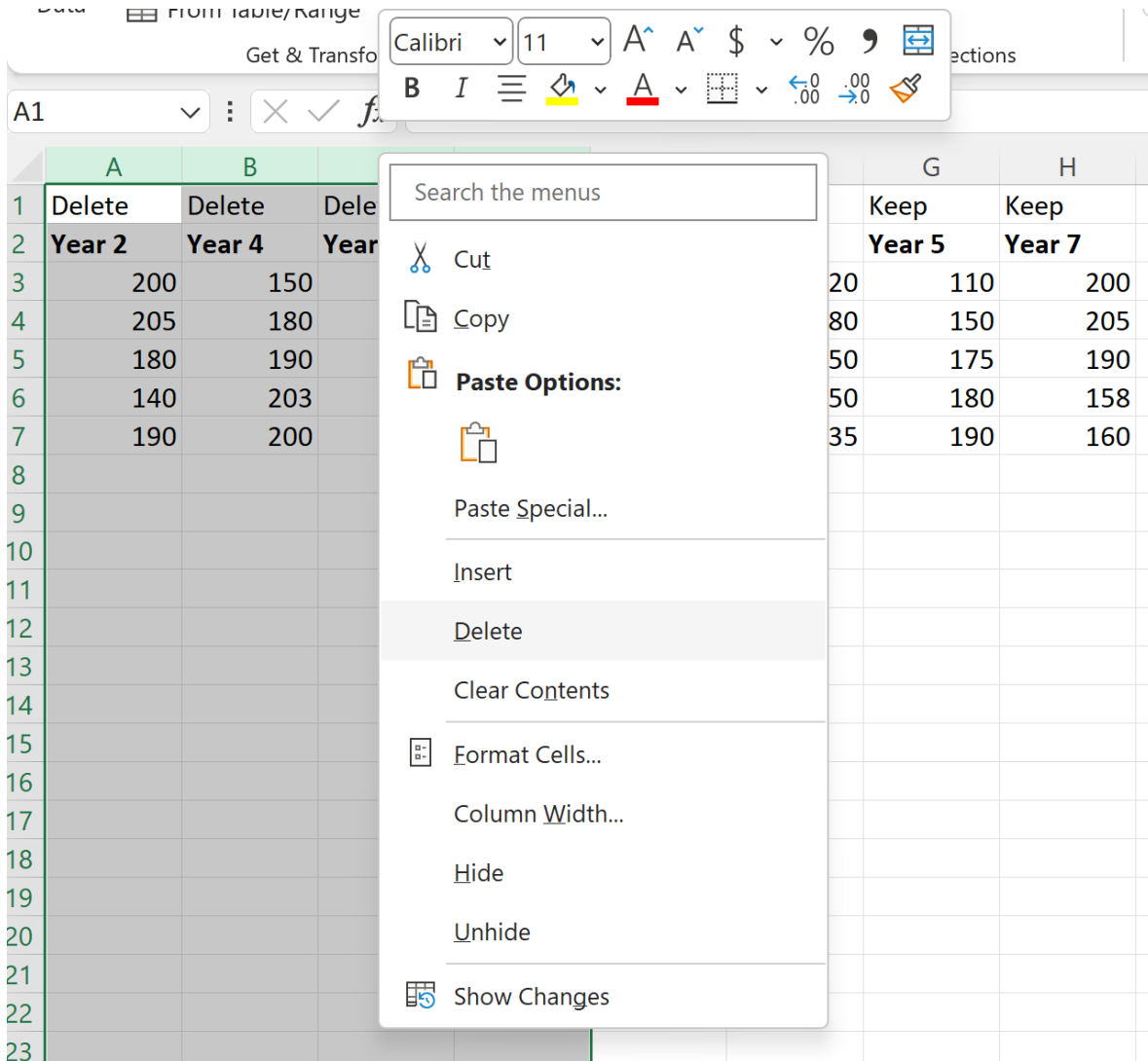
	A	B	C	D	E	F	G	H
1	Delete	Delete	Delete	Delete	Keep	Keep	Keep	Keep
2	<b>Year 2</b>	<b>Year 4</b>	<b>Year 6</b>	<b>Year 8</b>	<b>Year 1</b>	<b>Year 3</b>	<b>Year 5</b>	<b>Year 7</b>
3	200	150	100	180	150	120	110	200
4	205	180	95	180	100	180	150	205
5	180	190	90	140	78	150	175	190
6	140	203	140	190	90	150	180	158
7	190	200	93	200	91	135	190	160
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#### Step 4: Executing the Column Deletion

Following the successful segregation of columns in the previous step, the final deletion phase is remarkably simple and fast. Because all columns designated for removal are now adjacent to one another, they can be highlighted and deleted simultaneously, completely bypassing the complexity of selecting non-contiguous ranges.

Based on our newly sorted data structure, the first four columns (Columns A, B, C, and D) now collectively contain all the data intended for elimination (Year 2, Year 4, Year 6, and Year 8 data, plus the "Delete" marker in Row 1). Highlight the entirety of these first four columns by clicking and dragging across their respective column headers (A, B, C, D) located at the very top boundary of the worksheet.

With the unwanted columns fully highlighted, **right-click** anywhere within the selection area of the column headers. From the resulting contextual menu, choose the **Delete** option. This is a permanent action that removes the selected columns and seamlessly shifts the remaining data (the "Keep" columns) back to the left, occupying the space vacated by the deleted data blocks.



Immediately after this bulk deletion, your worksheet will update to reflect the required transformation. Only the columns corresponding to Year 1, Year 3, Year 5, and Year 7 remain, achieving the initial objective of deleting every other column from the original [spreadsheet](#). This method proves dramatically faster and far more dependable than attempting to manually handle alternating column selections, particularly when dealing with expansive data volumes.

	A	B	C	D	E	F
1	Keep	Keep	Keep	Keep		
2	<b>Year 1</b>	<b>Year 3</b>	<b>Year 5</b>	<b>Year 7</b>		
3	150	120	110	200		
4	100	180	150	205		
5	78	150	175	190		
6	90	150	180	158		
7	91	135	190	160		
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## Step 5: Cleaning Up the Final Dataset

While the primary objective--the successful deletion of alternating columns--is complete, one final housekeeping task is necessary to finalize the data preparation: removing the temporary helper row that was instrumental in facilitating the sorting process. This row (Row 1), which still contains the **Keep** identifiers, has served its function and is no longer required for the functional integrity of the refined [dataset](#).

To execute this final cleanup, simply select the entirety of Row 1 by clicking directly on the row number identifier situated on the left margin of the worksheet interface. Once the row is highlighted, **right-click** on the selected row and choose **Delete** from the menu options. This final action removes the temporary helper row, thereby restoring your original, meaningful column headers (Year 1, Year 3, Year 5, etc.) to the top of the worksheet, marking the completion of the entire data transformation sequence.

This five-step process represents a highly efficient and systematic solution for managing the inherent challenge of non-contiguous column deletion in large datasets. It relies entirely on the intelligent utilization of the [Sort & Filter](#) tool to temporarily reorganize the data structure. This technique is vastly superior to tedious manual selection for large-scale data manipulation within [Microsoft Excel](#) environments. As a best practice, always ensure that you save your work immediately after completing major data restructuring operations to secure your progress.

## Additional Resources for Efficient Data Management

Developing mastery over complex data manipulation techniques within [Microsoft Excel](#) is a fundamental requirement for performing robust and accurate data analysis. The powerful horizontal sorting method detailed in this guide is but one example of how to efficiently manage and restructure high volumes of data. For professionals who are routinely engaged in data cleansing, structuring, and reporting tasks, exploring and integrating other advanced features can further optimize analytical workflows and significantly boost productivity.

Investing time in understanding Excel's full capability spectrum beyond simple formulas ensures that you can handle almost any data challenge presented. Complex operations that might seem daunting often have simple, automated solutions hidden within the software's features, like conditional formatting or array processing.

The following resources outline how to perform other common and essential operations necessary for comprehensive data governance within the spreadsheet environment:

How to quickly apply precise data [filtering](#) based on complex criteria.

Techniques for using conditional formatting to dynamically visualize data patterns and anomalies.

Methods for performing high-speed lookup operations using sophisticated functions like VLOOKUP or XLOOKUP.

Advanced strategies for transposing data, which involves efficiently switching the orientation of rows and columns.

Understanding and implementing array formulas for highly specialized and advanced calculations.