

# How to Delete Named Range Using VBA (With Example)

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Managing data efficiently within large Microsoft Excel workbooks often relies on the proper use and maintenance of Named Ranges. While these constructs are incredibly useful for enhancing readability and speeding up formula creation, an accumulation of obsolete or redundant names can significantly clutter the Name Manager and potentially slow down workbook recalculation times. Developing automated routines to clean up these remnants is an essential skill for any advanced Excel user.

Deleting Named Ranges systematically using Visual Basic for Applications (VBA) provides a powerful, repeatable, and quick solution to this organizational challenge. The ability to execute cleanup operations on demand saves substantial time compared to manually deleting entries one by one. This article is designed to guide you through the precise methods required to remove named references using robust macro programming.

We will delve into the underlying object model utilized by VBA, examine the core syntax necessary for mass deletion, and walk through practical, detailed examples. By the conclusion of this technical guide, you will possess the expertise required to incorporate sophisticated named range management techniques into your daily data processing workflows, ensuring your workbooks remain clean, fast, and highly organized.

## The Necessity of Named Range Management

Effective data organization is the foundation of reliable spreadsheet analysis. Named Ranges are reference aliases that significantly improve formula comprehension; instead of seeing `=SUM(A1:A100)`, a user sees `=SUM(Quarterly_Sales)`. This readability is invaluable, but the administrative overhead of tracking dozens or even hundreds of these names can become problematic, particularly when copying sheets or inheriting complex files from others.

One common issue arises when ranges are created temporarily for specific calculations or reports and are then forgotten. These stale names persist in the Name Manager, increasing file size slightly and, more importantly, increasing the cognitive load when trying to debug or navigate the workbook's structure. If a range refers to a deleted sheet or a range that no longer exists (a #REF! error), it introduces potential instability into the application environment. Systematically removing these unnecessary references is a critical step in maintaining workbook integrity.

Using VBA to automate this cleanup process transforms a tedious manual task into a simple execution of a macro. This automation ensures consistency—every time the code runs, the cleanup logic is applied identically—and significantly enhances productivity. Whether you are preparing a file for distribution or simply optimizing a large data model, programmatic deletion of named ranges is an indispensable technique.

## Understanding the VBA Object Model for Names

To interact with named ranges programmatically, we must understand how Microsoft Excel exposes them through its Object Model. Every Excel workbook contains a collection of Name objects. This collection is accessed via the `Names` property of the `Workbook` object. When working within the context of the currently open file, we typically use `ActiveWorkbook.Names` to access this complete list of named references.

Each individual named range is represented by a `Name` object within this collection. This object possesses several crucial properties, including `Name` (the string identifier), `RefersTo` (the range or formula it points to), and `Visible` (a boolean indicating if it appears in the Name Box). The key method for our purpose is the `Delete` method, which, when called on a specific `Name` object, permanently removes it from the workbook.

The standard approach involves iterating through the entire `ActiveWorkbook.Names` collection using a `For Each...Next` loop. During each iteration, the code examines the properties of the current `Name` object and determines whether it meets the criteria for deletion. While the simplest criteria is to delete everything, more sophisticated criteria can be implemented, such as deleting only names that refer to specific sheets or those containing errors. The crucial action, however, remains the invocation of the `.Delete` method.

## Core VBA Syntax for Mass Deletion

The most straightforward VBA approach is to sweep the entire active workbook and remove all defined named ranges that are currently visible to the user. This is an efficient method when you need a complete reset of the naming conventions within a specific file. The necessary syntax relies heavily on looping through the `Names` collection, as previously discussed.

The following routine defines a procedure named `DeleteNamedRanges`. Inside this procedure, a variable `NamedRange` is declared to hold the individual `Name` object during iteration. The `For Each` loop processes every item found in the `ActiveWorkbook.Names` collection. A conditional statement (`If NamedRange.Visible Then`) is often included to prevent accidentally deleting system-generated or hidden names, though sometimes users intentionally remove these too.

You can use the following syntax in VBA to delete named ranges from an Excel workbook:

### Sub DeleteNamedRanges()

```
Dim NamedRange As Name
```

```
For Each NamedRange In ActiveWorkbook.Names
```

```
If NamedRange.Visible Then NamedRange.Delete
```

Next NamedRange

End Sub

Note that we must use the `Dim NamedRange As Name` declaration. If you attempt to declare the variable as `Range`, the code will fail because the objects stored in the `ActiveWorkbook.Names` collection are `Name` objects, not `Range` objects. The `.Delete` method then executes the removal, effectively purifying the list of references maintained by the workbook.

## Step-by-Step Example Implementation

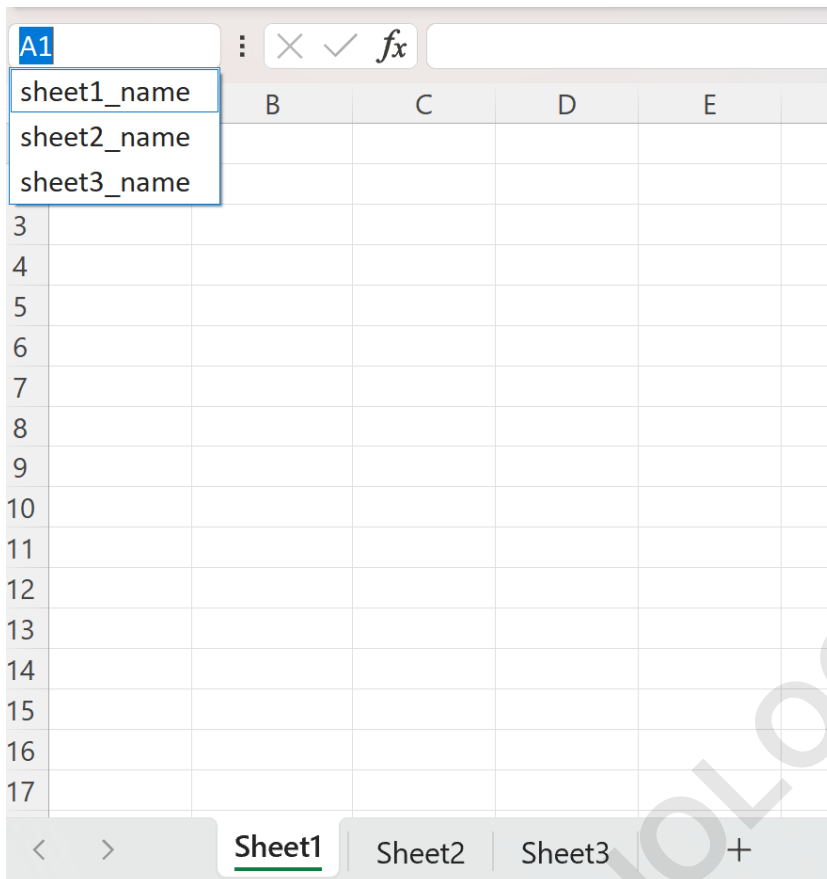
To demonstrate this powerful functionality, let us assume we are working with a data consolidation file that, over several months, has accumulated several sheet-scoped Named Ranges. Our goal is to perform a complete cleanup of these aliases before archiving the workbook. Suppose our Excel workbook contains the following three named ranges, each scoped to a different worksheet:

A named range called **sheet1\_name** defined in **Sheet1**.

A named range called **sheet2\_name** defined in **Sheet2**.

A named range called **sheet3\_name** defined in **Sheet3**.

Before executing the macro, we can confirm the existence of these named ranges. To see each of these defined references, simply click the dropdown arrow in the **Name Box**, which is located in the top left corner of the spreadsheet interface, adjacent to the formula bar. This box provides a quick visual confirmation of currently active names.



Suppose we now confirm that we would like to delete each of these named ranges simultaneously, regardless of their scope (local or global). We will utilize the previously defined VBA procedure. To execute this, open the VBA editor (Alt + F11), insert a new Module, and paste the code below into the module window. This process creates the automated cleanup procedure.

We can create the following macro to achieve the mass deletion:

### **Sub DeleteNamedRanges()**

Dim NamedRange As Name

For Each NamedRange In ActiveWorkbook.Names

If NamedRange.Visible Then NamedRange.Delete

Next NamedRange

End Sub

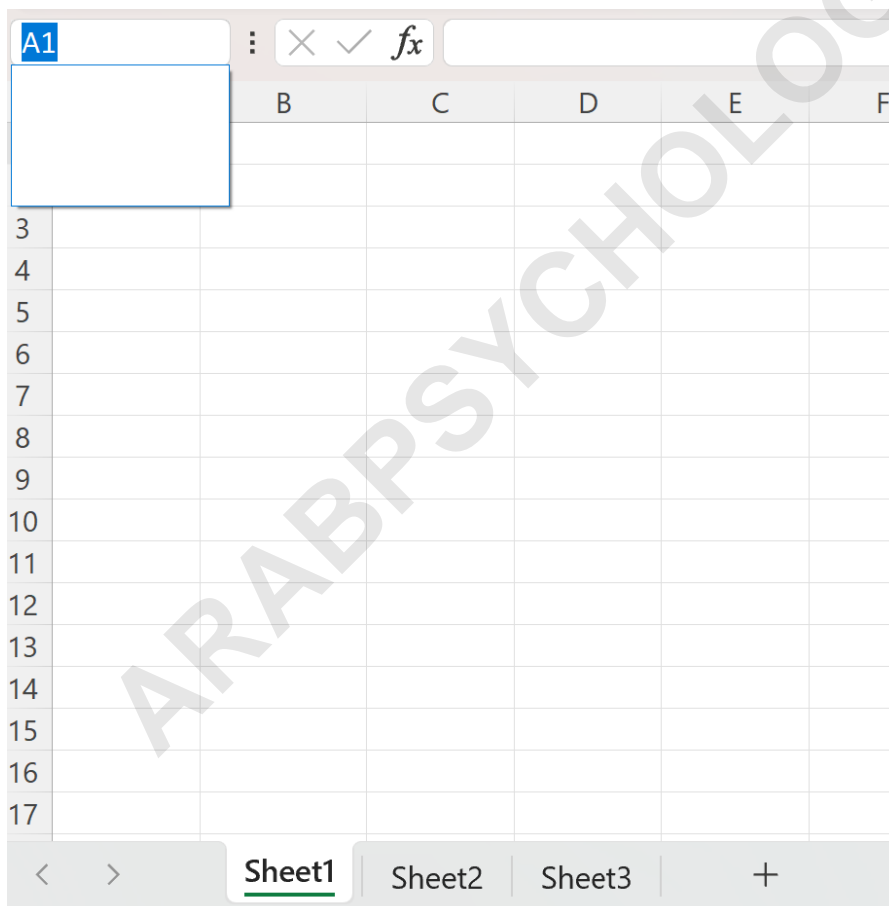
Once this subroutine is executed (by running the macro from the Developer tab or by pressing F5 in the VBA editor), the code iterates through all names. Because the names `sheet1_name`,

`sheet2_name`, and `sheet3_name` are visible, the `.Delete` method is called for each one, effectively clearing the list of user-defined references in the entire workbook.

## Verifying the Deletion Process

After successfully running the `DeleteNamedRanges` macro, it is critical to confirm that the operation completed as expected and that all targeted references have been removed. While VBA operations are generally instantaneous for simple deletions, verification ensures data integrity and confirms the code's effectiveness.

We can verify that they have been deleted by once again clicking on the **Name Box** dropdown menu, located in the top left corner of any of the sheets. If the deletion was successful, this box should only show sheet names and should not display any of the previously defined named ranges (`sheet1_name`, `sheet2_name`, etc.).



As illustrated in the subsequent image, we can clearly see that the **Name Box** no longer contains the names of any user-defined named ranges. This visual confirmation provides immediate feedback that the bulk deletion routine executed correctly. For extremely large workbooks, you

might also check the Name Manager (Ctrl + F3) to ensure the list is truly empty or contains only non-visible, system-required names.

## Advanced Techniques: Deleting Specific Named Ranges

While mass deletion is useful for cleaning up entirely, developers often need more granular control—specifically, the ability to delete only certain named ranges based on their prefix, scope, or reference value. Achieving this requires modifying the conditional logic within the `For Each` loop.

To delete a specific named range whose name is known, such as "Specific\_Report\_Data," the iteration is unnecessary. You can use direct addressing on the `Names` collection, followed by error handling in case the name does not exist:

```
Sub DeleteSpecificNamedRange()  
On Error Resume Next  
ActiveWorkbook.Names("Specific_Report_Data").Delete  
On Error GoTo 0  
End Sub
```

If you need to delete multiple names that share a common naming convention (e.g., all names starting with "Temp\_"), you integrate the `Like` operator or string manipulation functions within the loop structure. This allows targeted cleanup without affecting critical production names. For example, to delete all temporary names:

```
Sub DeleteTemporaryNames()  
Dim n As Name  
For Each n In ActiveWorkbook.Names  
If Left(n.Name, 5) = "Temp_" Then  
n.Delete  
End If  
Next n  
End Sub
```

This level of precision is extremely valuable in complex environments where global names must be protected while local or temporary names must be regularly purged. Careful use of string functions combined with the powerful `.Delete` method gives the user complete control over the naming architecture of the Excel workbook.

## Addressing Hidden and Error-Prone Names

The initial mass deletion code included the condition `If NamedRange.Visible Then`. This condition is crucial because Excel often creates non-visible names for internal functions (such as print areas or dynamic data structures). However, sometimes these hidden names become corrupt or obsolete and need removal. If you wish to delete all names, visible or not, you must remove this conditional check:

```
Sub DeleteAllNamesIncludingHidden()  
Dim NamedRange As Name  
For Each NamedRange In ActiveWorkbook.Names  
NamedRange.Delete ' Removes all names, regardless of Visible property  
Next NamedRange  
End Sub
```

Furthermore, one of the most important use cases for programmatic name deletion is identifying and removing names that refer to invalid ranges (those that display `#REF!` errors in the Name Manager). The `Name` object possesses a property called `RefersToRange`. If this property returns an error when accessed, it generally signifies a reference error.

A more robust method, however, is checking the `RefersTo` property (which is a string) for the presence of the `#REF!` indicator. By combining error handling with string examination in VBA, developers can create sophisticated cleanup scripts that target these troublesome names specifically, thus ensuring the overall health and stability of the Excel workbook structure.

## Conclusion and Best Practices

Mastering the deletion of Named Ranges via VBA is an essential skill for maintaining professional, robust Excel workbooks. Whether you require a full reset using the mass deletion technique or highly specific targeting of erroneous or temporary names, the VBA Object Model provides the necessary tools for powerful automation. The core principle involves iterating through the `ActiveWorkbook.Names` collection and invoking the `.Delete` method on the desired `Name` objects.

When implementing these macros, always adhere to best practices. First, ensure you back up your workbook before running any code that performs mass deletion, especially if you are removing hidden names. Second, always include error handling (`On Error Resume Next`) when attempting to delete a single named range by name, as failure to find the name will halt the procedure.

By applying the techniques detailed in this guide, you can dramatically improve the operational performance and organizational clarity of your spreadsheets. Programmatic range management

transforms workbook maintenance from a tedious manual chore into a quick, reliable, automated task, allowing you to focus on analysis rather than administrative cleanup.

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