

How to Use XLOOKUP to Retrieve Data from Another Sheet in Google Sheets

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The XLOOKUP function represents a significant advancement in data retrieval capabilities within Google Sheets. Unlike its predecessors, XLOOKUP provides a flexible and robust solution for searching and retrieving data, especially when dealing with large datasets spread across multiple sheets within a single spreadsheet file. This powerful feature allows users to seamlessly reference data from a secondary sheet, thereby centralizing analysis and reporting.

Mastering cross-sheet referencing is crucial for developing efficient and scalable models. By correctly specifying the sheet name and the precise cell reference range for both the lookup and return arrays, you can establish powerful dynamic links. This capability eliminates the cumbersome need for manual data reconciliation or constantly switching between tabs, ensuring your data analysis remains organized and highly productive. This guide will provide an in-depth, step-by-step methodology for implementing cross-sheet XLOOKUP functions.

Google Sheets: Utilizing XLOOKUP for Seamless Cross-Sheet Data Retrieval

Understanding the Power of XLOOKUP Across Sheets

The transition from older lookup methods, such as VLOOKUP or the combination of INDEX and MATCH, to XLOOKUP is especially beneficial when handling complex cross-sheet operations. XLOOKUP is inherently designed to handle vertical or horizontal searches, and its default exact match setting simplifies the formula structure significantly. When referencing external sheets, the clear structure of the XLOOKUP syntax makes it easier to audit and maintain complex formulas, drastically reducing the risk of errors associated with column indexing or misaligned array ranges.

One of the primary benefits of using XLOOKUP for data consolidation is its resilience against structural changes. If you insert or delete columns in the lookup sheet (the source sheet), XLOOKUP automatically adjusts because it references entire ranges rather than relying on a fixed column number, unlike VLOOKUP. This robustness ensures that your formulas remain intact even as the underlying data structure evolves. When pulling data from another sheet, this adaptability is invaluable for maintaining dynamic dashboards and reports that draw information from fluctuating source data.

Before diving into the practical example, it is essential to grasp the core principle of referencing an external sheet within the same spreadsheet. Whenever you want to specify a range that resides on a different tab, you must preface the range with the sheet's name followed by an exclamation mark (e.g., **Sheet2!A1:B10**). This explicit naming convention is the mechanism by which Google Sheets correctly maps the formula to the correct location, regardless of which sheet the formula is being executed from.

The Essential Syntax for Cross-Sheet Referencing

To successfully perform a lookup operation using data housed on a separate tab, we must adhere strictly to the established syntax of the XLOOKUP function, specifically focusing on how the lookup array and the result array are defined using cross-sheet cell reference notation. The basic structure requires three mandatory arguments: the search key, the array containing the search key (the lookup range), and the array containing the corresponding value (the return range).

You can use the following fundamental syntax with **XLOOKUP** in Google Sheets to look up a value from the current sheet and retrieve the corresponding result from another sheet:

=XLOOKUP(A2, Sheet2!\$A\$2:\$A\$11, Sheet2!\$B\$2:\$B\$11)

This particular implementation demonstrates a crucial point: the first argument, **A2**, refers to the cell containing the search criterion on the **current sheet** (where the formula is placed). However, the second and third arguments, representing the search array and the return array respectively, explicitly utilize the sheet reference prefix, **Sheet2!**, ensuring that the operation is executed entirely against the data stored on the designated secondary sheet.

The use of absolute references (using the \$ signs, e.g., **\$A\$2:\$A\$11**) within the lookup and return ranges is highly recommended when applying the formula across multiple rows. Absolute referencing locks the range boundaries, preventing them from shifting erroneously when the formula is copied or dragged down the column, thereby ensuring data integrity and consistency throughout the entire dataset calculation.

Setting Up the Practical Scenario in Google Sheets

To illustrate the practical application of cross-sheet XLOOKUP, we will establish a scenario involving basketball team statistics spread across two separate sheets. Our objective is to consolidate information by matching team identifiers across these tabs. This exercise highlights how XLOOKUP acts as a bridge, synthesizing fragmented data into a cohesive report on the primary sheet.

First, let us examine our primary data source, designated as **Sheet1**. This sheet contains foundational data points for various basketball players, specifically detailing the team they belong to and the number of points they have scored. The lookup key, which we will use to match records across sheets, is the **Team** name, located in Column A. This sheet represents the destination where the final, combined data will reside.

Suppose we have one sheet called **Sheet1** that contains information about the points scored by basketball players on various teams:

	A	B	C	D	
1	Team	Points			
2	Mavs	12			
3	Nets	30			
4	Warriors	24			
5	Heat	22			
6	Lakers	18			
7	Celtics	14			
8	Knicks	29			
9	Heat	15			
10	Magic	18			
11	Kings	11			
12					
13					
14					
15					

Sheet1 Sheet2

Next, we consider the secondary data source, named **Sheet2**. This sheet holds auxiliary information--specifically, the number of assists attributed to the same basketball teams. While the data structure might be slightly different, the critical element remains the same: a unique identifier (the Team name) that serves as the matching key. The value we wish to retrieve, the **Assists** count, is located in Column B of this secondary sheet.

Suppose we have another sheet called **Sheet2** that contains information about the assists for basketball players on various teams:

	A	B	C	D	
1	Team	Assists			
2	Heat	4			
3	Mavs	6			
4	Nets	7			
5	Warriors	12			
6	Lakers	10			
7	Heat	4			
8	Knicks	8			
9	Celtics	15			
10	Magic	9			
11	Kings	3			
12					
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Sheet1 ▾

Sheet2 ▾

Our specific goal is to pull the corresponding assist counts from **Sheet2** into **Sheet1**, aligning them precisely with the correct team records. This process demonstrates how XLOOKUP efficiently consolidates disparate data points, provided the lookup keys are consistent between the source and destination sheets. We aim to populate a new column on **Sheet1** with the data from **Sheet2's Assists** column.

Step-by-Step Implementation: Linking Data

The implementation phase requires placing the formula strategically on the destination sheet (**Sheet1**) where the consolidated data is needed. Following our plan, we will input the formula into cell **C2**, which will serve as the starting point for retrieving the assist data. This cell is selected because it is the first available slot adjacent to the data we are searching against (the Team name in A2).

We begin by identifying the lookup value: the team name in **A2** of **Sheet1**. This value initiates the search. Subsequently, we define the search range. Since the search range resides on **Sheet2**, and we are looking for the team names, we reference the relevant column on that sheet, ensuring we use the required sheet name prefix and absolute referencing for stability.

Suppose we would like to look up the team names in **Sheet1** within **Sheet2** and return the value from the **Assists** column. The formula must meticulously map the lookup key (**A2**) to the lookup array (**Sheet2!\$A\$2:\$A\$11**) and then specify the return array (**Sheet2!\$B\$2:\$B\$11**).

We can type the following formula into cell **C2** of **Sheet1** to do so, utilizing the robust cross-sheet syntax:

=XLOOKUP(A2, Sheet2!\$A\$2:\$A\$11, Sheet2!\$B\$2:\$B\$11)

Once the formula is entered into **C2**, we execute the operation by pressing Enter. The resulting value immediately reflects the assist count corresponding to the team listed in A2. The subsequent step involves applying this formula dynamically to all remaining rows in Column C. This is efficiently achieved by clicking and dragging the fill handle located at the bottom-right corner of cell C2 down the column.

We can then click and drag this formula down to each remaining cell in column C, automatically adjusting the relative reference (A2) while preserving the absolute references for the external sheet ranges (Sheet2!\$A\$2:\$A\$11 and Sheet2!\$B\$2:\$B\$11):

C2	fx =XLOOKUP(A2, Sheet2!\$A\$2:\$A\$11, Sheet2!\$B\$2:\$B\$11)				
	A	B	C	D	E
1	Team	Points	Assists		
2	Mavs	12	6		
3	Nets	30	7		
4	Warriors	24	12		
5	Heat	22	4		
6	Lakers	18	10		
7	Celtics	14	15		
8	Knicks	29	8		
9	Heat	15	4		
10	Magic	18	9		
11	Kings	11	3		
12					
13					
14					
15					

Sheet1 Sheet2

Analyzing the Results and Data Validation

The successful execution of the drag operation results in a complete column of retrieved data. The **XLOOKUP** function performs its task flawlessly, returning the value from the **Assists** column of **Sheet2** that perfectly corresponds to the team identifier found in the **Team** column of **Sheet1**. This seamless data integration is the hallmark of efficient spreadsheet modeling.

It is vital to perform data validation to confirm the integrity of the lookup operation. Validation ensures that the formula has correctly matched the records, especially in scenarios involving large datasets where minor discrepancies can significantly impact analytical outcomes. In our example, we can manually check a few records against the source data on **Sheet2**.

For example, if we check **Sheet2**, focusing on the team "Mavs," we will see that the Mavs do indeed have a value of 6 in the **Assists** column, confirming the accuracy of the lookup result retrieved into **Sheet1**:

	A	B	C	D
1	Team	Assists		
2	Heat	4		
3	Mavs	6		
4	Nets	7		
5	Warriors	12		
6	Lakers	10		
7	Heat	4		
8	Knicks	8		
9	Celtics	15		
10	Magic	9		
11	Kings	3		
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Sheet1 ▾

Sheet2 ▾

If XLOOKUP were unable to find a match for a specific team name, it would typically return the default error value, **#N/A**. A key advantage of XLOOKUP is its optional fourth argument, , which allows the user to specify a custom return value (e.g., "Not Found" or 0) instead of the standard error. Utilizing this argument enhances report cleanliness and prevents error propagation in

subsequent calculations.

Advantages and Best Practices for Cross-Sheet XLOOKUP

Leveraging cross-sheet **XLOOKUP** functions provides numerous advantages beyond simple data merging. It promotes modular design in your [Google Sheets](#) workbook, allowing dedicated sheets for raw data storage, calculation engines, and final reports. This separation of concerns greatly improves workbook performance and collaborative editing, as users can focus on specific data sets without interfering with complex formulas on other tabs.

When working with cross-sheet references, several best practices ensure optimal performance and maintainability:

Naming Conventions: Always use clear, descriptive names for your sheets (e.g., "Raw_Data_Assists" instead of "Sheet2"). If a sheet name contains spaces (e.g., "Team Stats"), you must enclose the entire name in single quotes in the formula (e.g., **'Team Stats'!A:A**).

Absolute References: Utilize the **\$** symbol extensively on external sheet ranges (e.g., **Sheet2!\$A\$1:\$B\$100**) to lock down the lookup boundaries, preventing calculation errors when copying the formula.

Full Column References: For dynamic data where the number of rows might change frequently, consider using full column references (e.g., **Sheet2!A:A**). However, be mindful that using entire columns can sometimes impact performance in extremely large [spreadsheets](#).

Error Handling: Implement the argument to handle missing data gracefully. This avoids cluttering your final report with **#N/A** errors, replacing them with a more informative or neutral value, such as a zero or a custom message.

By adhering to these practices, you transform a basic lookup function into a robust mechanism for business intelligence reporting. The ability to pull live data from source sheets ensures that the analysis performed on the destination sheet is always current and accurate, making **XLOOKUP** an indispensable tool for data analysts utilizing [Google Sheets](#).

Troubleshooting Common Cross-Sheet XLOOKUP Issues

While **XLOOKUP** is powerful, users often encounter specific issues when dealing with external sheet references. Understanding these common problems allows for faster diagnosis and resolution, ensuring smooth data flow across your workbook.

One frequent cause of failure is incorrect sheet naming. If the sheet name in the formula does not exactly match the sheet name in the workbook, [Google Sheets](#) will return an error, usually **#REF!**. Remember that sheet names are case-sensitive if they contain specific characters or references are generated dynamically. Always double-check spelling and the required inclusion of single

quotes if spaces are present in the sheet name.

Another common issue involves mismatched data types between the lookup key and the lookup array. If the lookup key (e.g., cell **A2**, containing text) is being searched against a column formatted as numbers on the source sheet (**Sheet2!A:A**), the lookup will fail even if the values appear visually identical. Ensure that all data used for matching, especially in the context of cross-sheet operations, is standardized in terms of formatting, capitalization, and leading/trailing spaces, which can be difficult to spot manually.

Finally, confirm that the lookup array and the return array specified in the syntax are of the same dimension (e.g., both covering 10 rows). Although XLOOKUP is more flexible than VLOOKUP, array dimensions must align. If your lookup array is **Sheet2!A2:A11** (10 cells) and your return array is accidentally defined as **Sheet2!B2:B12** (11 cells), the function may return an incorrect result or an error due to the mismatch in the size of the search vectors.

Conclusion: Mastering Cross-Sheet Data Retrieval

The integration of the XLOOKUP function fundamentally simplifies the architecture of complex spreadsheet models in Google Sheets. By adopting the robust cross-sheet referencing method--prefixing ranges with the sheet name and an exclamation mark--you gain the ability to consolidate, analyze, and report on distributed data with unprecedented ease and reliability.

This detailed guide provided a clear methodology, moving from conceptual understanding to practical implementation, demonstrating how to link player points data on **Sheet1** with assist data on **Sheet2**. This capability is not merely a convenience; it is a critical skill for anyone managing dynamic data environments, ensuring that lookup operations are both accurate and resistant to future structural changes within the workbook.

By consistently applying the principles of absolute referencing, using clear sheet names, and utilizing XLOOKUP's built-in error handling features, users can achieve a high level of data automation. Mastering cross-sheet lookups using this advanced function empowers analysts to build sophisticated, interconnected dashboards that drive informed decision-making across their organizations.