

# How do I perform a Left Join in Google Sheets?

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June 25, 2024

## RECOMMENDED CITATION

stats writer (2024). *How do I perform a Left Join in Google Sheets?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=151669>

A Left Join in Google Sheets is a data manipulation technique used to combine two tables based on a common key column, while preserving all the rows from the left table. This operation allows for the comparison and analysis of data from two different tables, and can be useful in scenarios such as merging customer information with sales data to gain insights. To perform a Left Join in Google Sheets, the tables must be organized with the common key column and the JOIN function must be used to specify the type of join and the columns to be included in the output. This process can be done by following a few simple steps, making it an effective tool for data analysis and management in Google Sheets.

## Perform a Left Join in Google Sheets

**A left join allows you to join together two tables in which every row in the left table is kept and only the rows who have a matching value in a particular column of the right table are kept.**

**The following step-by-step example shows how to use the VLOOKUP function to perform a left join in Google Sheets.**

### Step 1: Enter the Values for Each Table

**First, let's enter the following values for two tables in Google Sheets:**

	A	B	C	D	E	F
1	<b>Team</b>	<b>Points</b>		<b>Team</b>	<b>Assists</b>	<b>Rebounds</b>
2	Mavs	99		Mavs	30	29
3	Warriors	103		Thunder	22	40
4	Lakers	104		Magic	28	42
5	Nets	98		Kings	25	28
6	Heat	99		Grizzlies	25	34
7	Thunder	104		Pelicans	28	36
8	Magic	110		Hornets	32	37
9	Kings	90		Nets	30	33
10						
11						
12						
13						
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19						
20						
21						
22						

We will perform a left join in which we keep all rows from the left table and only join in the rows from the right table that have matching values in the Team column.

**Step 2: Create a Copy of the First Table**

Next, let's copy and paste the values of the first table into a new cell range:

	A	B	C	D	E	F
1	<b>Team</b>	<b>Points</b>		<b>Team</b>	<b>Assists</b>	<b>Rebounds</b>
2	Mavs	99		Mavs	30	29
3	Warriors	103		Thunder	22	40
4	Lakers	104		Magic	28	42
5	Nets	98		Kings	25	28
6	Heat	99		Grizzlies	25	34
7	Thunder	104		Pelicans	28	36
8	Magic	110		Hornets	32	37
9	Kings	90		Nets	30	33
10						
11						
12	<b>Team</b>	<b>Points</b>				
13	Mavs	99				
14	Warriors	103				
15	Lakers	104				
16	Nets	98				
17	Heat	99				
18	Thunder	104				
19	Magic	110				
20	Kings	90				
21						
22						
23						
24						

### Step 3: Perform Left Join Using VLOOKUP

Next, we'll type the following formula into cell C13:

```
=ArrayFormula(VLOOKUP(A2, $E$2:$G$9, {2,3}, FALSE))
```

We'll then drag and fill this formula down to each remaining cell in column C:

C13 fx =ArrayFormula(VLOOKUP(A2, \$D\$2:\$F\$9, {2,3}, FALSE))

	A	B	C	D	E	F
1	<b>Team</b>	<b>Points</b>		<b>Team</b>	<b>Assists</b>	<b>Rebounds</b>
2	Mavs	99		Mavs	30	29
3	Warriors	103		Thunder	22	40
4	Lakers	104		Magic	28	42
5	Nets	98		Kings	25	28
6	Heat	99		Grizzlies	25	34
7	Thunder	104		Pelicans	28	36
8	Magic	110		Hornets	32	37
9	Kings	90		Nets	30	33
10						
11						
12	<b>Team</b>	<b>Points</b>				
13	Mavs	99	30		29	
14	Warriors	103	#N/A	#N/A		
15	Lakers	104	#N/A	#N/A		
16	Nets	98	30		33	
17	Heat	99	#N/A	#N/A		
18	Thunder	104	22		40	
19	Magic	110	28		42	
20	Kings	90	25		28	
21						
22						
23						
24						

**Feel free to add the column headers Assists and Rebounds as well:**

	A	B	C	D	E	F
1	<b>Team</b>	<b>Points</b>		<b>Team</b>	<b>Assists</b>	<b>Rebounds</b>
2	Mavs	99		Mavs	30	29
3	Warriors	103		Thunder	22	40
4	Lakers	104		Magic	28	42
5	Nets	98		Kings	25	28
6	Heat	99		Grizzlies	25	34
7	Thunder	104		Pelicans	28	36
8	Magic	110		Hornets	32	37
9	Kings	90		Nets	30	33
10						
11						
12	<b>Team</b>	<b>Points</b>	<b>Assists</b>	<b>Rebounds</b>		
13	Mavs	99	30	29		
14	Warriors	103	#N/A	#N/A		
15	Lakers	104	#N/A	#N/A		
16	Nets	98	30	33		
17	Heat	99	#N/A	#N/A		
18	Thunder	104	22	40		
19	Magic	110	28	42		
20	Kings	90	25	28		
21						
22						
23						
24						

**The left join is now complete.**

**If a given team didn't have a match in the right table, then a #N/A value is shown for the Assists and Rebounds columns.**

**For example, the Mavs did exist in the right table, so they have corresponding values for Assists and Rebounds.**

**However, the Warriors did not exist in the right table, so they have #N/A for Assists and Rebounds.**

**The following tutorials explain how to perform other common tasks in Google Sheets:**

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