

How can I implement VLOOKUP in VBA and what are some examples of its usage?

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VLOOKUP is a built-in function in Microsoft Excel that allows for the retrieval of data from a specified table based on a given criteria. This function can also be implemented in Visual Basic for Applications (VBA) to automate the process of searching and retrieving data within an Excel file. To use VLOOKUP in VBA, the code must first define the range of the table and the criteria to be searched for. Some examples of its usage include finding a specific customer's information from a large database, retrieving sales data for a particular product, or matching employee names with their corresponding salaries. By incorporating VLOOKUP in VBA, users can efficiently and accurately retrieve data without manually searching through large amounts of information.

Use VLOOKUP in VBA (With Examples)

You can use the following basic syntax to perform a VLOOKUP using VBA:

```
Sub Vlookup()  
Range("F2").Value =  
WorksheetFunction.Vlookup(Range("E2"),  
Range("A2:C11"),3,False)  
End Sub
```

This particular example looks up the value in cell E2 in the range A2:C11 and finds the corresponding value in the third column of the range and then assigns the result to cell F2.

Note: The last argument of False specifies that we want an exact match.

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

Example: How to Use VLOOKUP in VBA

Suppose we have the following dataset in Excel that contains information about various basketball players:

	A	B	C	D	E	F
1	Team	Points	Assists		Team	Assists
2	Mavs	22	12		Kings	
3	Rockets	24	14			
4	Spurs	29	6			
5	Nets	13	8			
6	Hawks	15	8			
7	Magic	20	7			
8	Kings	29	3			
9	Lakers	31	9			
10	Warriors	40	4			
11	Celtics	13	3			
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Suppose we would like to look up the team name "Kings" in the dataset and return the corresponding value in the assists column.

We can create the following macro to do so:

Sub Vlookup()

```
Range("F2").Value
```

```
=
```

```
WorksheetFunction.Vlookup(Range("E2"),  
Range("A2:C11"),3,False)
```

```
End Sub
```

When we run this macro, we receive the following output:

	A	B	C	D	E	F
1	Team	Points	Assists		Team	Assists
2	Mavs	22	12		Kings	3
3	Rockets	24	14			
4	Spurs	29	6			
5	Nets	13	8			
6	Hawks	15	8			
7	Magic	20	7			
8	Kings	29	3			
9	Lakers	31	9			
10	Warriors	40	4			
11	Celtics	13	3			
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The macro correctly returns a value of 3 assists for the Kings.

If we change the name of the team in cell E2 and then run the macro again, it will correctly find the assists value for the new team name.

For example, suppose we change the team name to "Warriors" and run the macro again:

	A	B	C	D	E	F
1	Team	Points	Assists		Team	Assists
2	Mavs	22	12		Warriors	4
3	Rockets	24	14			
4	Spurs	29	6			
5	Nets	13	8			
6	Hawks	15	8			
7	Magic	20	7			
8	Kings	29	3			
9	Lakers	31	9			
10	Warriors	40	4			
11	Celtics	13	3			
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Note: You can find the complete documentation for the VBA VLookup method .