

Microsoft Excel

Module 34 - Use of LOOKUP Function in MS Excel

 CBSE

Lookup Function

The LOOKUP Function is categorized under Excel Lookup and Reference functions. The function performs a rough match lookup either in a one-row or one-column range and returns the corresponding value from another one-row or one-column range.

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While doing financial analysis, if we wish to compare two rows or columns, we can use the LOOKUP function. It is designed to handle the simplest cases of vertical and horizontal lookup.

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The more advanced versions of the LOOKUP function are HLOOKUP and VLOOKUP.

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Formula (Vector)

There are two forms of Lookup: Vector and Array.

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The vector form of the LOOKUP function will search one row or one column of data for a specified value and then get the data from the same position in another row or column.

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The formula for the function is as follows:

=LOOKUP(lookup_value, lookup_vector, [result_vector])

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It uses the following arguments:

1. Lookup_value (required function) - This is the value that we will be searching. It can be a logical value of TRUE or FALSE, reference to a cell, number, or text.
2. Lookup_vector (required function) - This is the one-dimensional data that we wish to search. Remember, we need to sort it in ascending order.
3. Result_vector - An optional one-dimensional list of data from which we want to return a value. If supplied, the [result_vector] must be the same length as the lookup_vector. If the [result_vector] is omitted, the result is returned from the lookup_vector.

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Formula (Array) LOOKUP Function

= LOOKUP(lookup_value, array)

The arguments are as follows:

1. Lookup_value (required argument) - This is a value that we are searching for.
2. Array (required argument) - A range of cells that contains text, numbers, or logical values that we want to compare with the lookup_value.

How to use the LOOKUP Function?

As a worksheet function, the LOOKUP Function can be entered as part of a formula in a cell of a worksheet. To understand the uses of this function, let us consider a few examples:

Vertical Lookup formula - search in one-column range

Let's say, you have a list of sellers in column D (D2:D5) and the products they sold in column E (E2:E5). You are creating a dashboard where your users will enter the seller's name in B2 and you need a formula that would pull a corresponding product in B3. The task can be easily accomplished with this formula:

=LOOKUP(B2,D2:D5,E2:E5)

		= LOOKUP(B2,D2:D5,E2:E5)				
	A	B	C	D	E	
1		Result		Seller	Product	
2	Seller	Sally		Adam	Bananas	
3	Product	Oranges		Robert	Apricots	
4				Sally	Oranges	
5				Tom	Apples	

To better understand the arguments,

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lookup_value lookup_vector result_vector

=LOOKUP(B2,D2:D5,E2:E5)

	A	B	C	D	E
1		Result		Seller	Product
2	Seller	Sally		Adam	Bananas
3	Product	Oranges		Robert	Apricots
4				Sally	Oranges
5				Tom	Apples

Horizontal Lookup formula - search in one-row range

If your source data has a horizontal layout, i.e. the entries reside in rows rather than columns, then supply a one-row range in the lookup_vector and result_vector arguments, like this:

=LOOKUP(B2,E1:H1,E2:H2)

=LOOKUP(B2, E1:H1, E2:H2)

	A	B	C	D	E	F	G	H
1		Result		Seller	Adam	Robert	Sally	Tom
2	Seller	Sally		Product	Apricots	Oranges	Apples	Bananas
3	Product	Apples						

Assignment

Student ID	Name	Subject	Marks	Grade
1001	Aarav	Math	85	A
1002	Priya	English	78	B
1003	Vikram	Science	92	A
1004	Diya	History	88	A
1005	Arjun	Math	76	B
1006	Ananya	English	90	A
1007	Rohit	Science	69	C
1008	Neha	History	82	B
1009	Isha	Math	91	A
1010	Sidharth	English	80	B

Tasks:

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Use of LOOKUP Function in MS Excel

1. Use the LOOKUP function to find the marks of the student with Student ID 1006 (Ananya).
2. Use the LOOKUP function to find the Grade of the student with Student ID 1005 (Arjun).

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