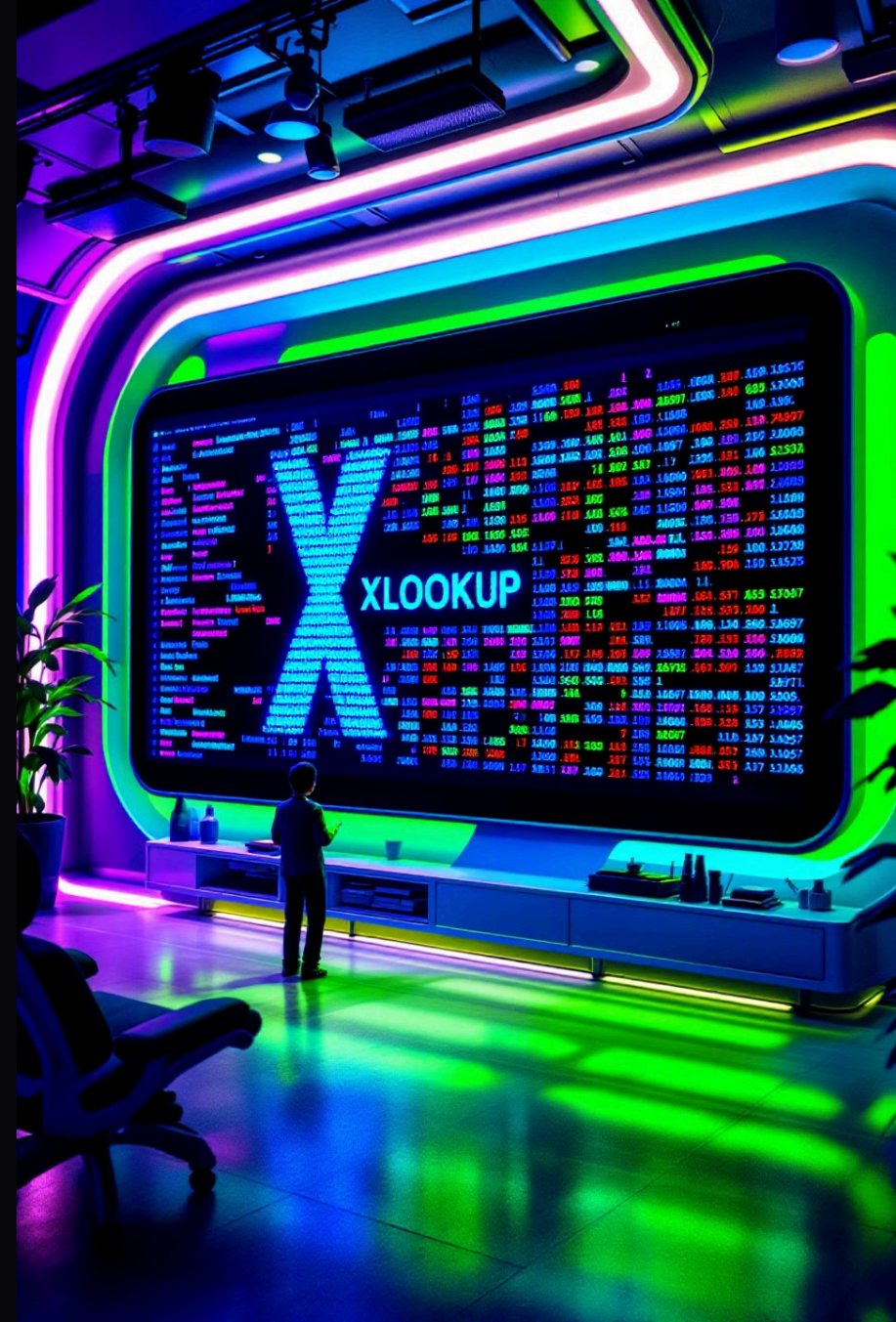


Excel XLOOKUP Function

A modern and flexible replacement for older lookup functions like VLOOKUP, HLOOKUP, and LOOKUP.

 by Excel Training London



Purpose and Syntax

Purpose

Look up values in a range or array

Return Value

Matching value in return array

Syntax

=XLOOKUP(lookup, lookup_array, return_array, [if_not_found], [match_mode], [search_mode])



Key Features



Flexible Lookup

Look up values in vertical or horizontal ranges



Fast Performance

Binary search option for large datasets



Matching Options

Exact, approximate, and wildcard matching



Basic Exact Match Example

Formula

=XLOOKUP(H4, B5:B9, E5:E9)

Explanation

Retrieves Sales amount from column E based on exact match of movie titles in column B

XLOOKUP function

Planet	Satellites	Diameter (km)
Mercury	0	4,879
Venus	0	12,104
Earth	1	12,756
Mars	2	6,792
Jupiter	67	142,984
Saturn	200	120,536
Uranus	27	51,118
Neptune	13	49,528
Pluto	5	2,306

Planet	Diameter
Mars	6,792

lookup array return array

lookup value

result

Approximate Match Example

Formula

```
=XLOOKUP(E5, B5:B9, C5:C9,, -1)
```

Explanation

Calculates discount based on quantity using approximate match



Multiple Value Return

Formula

=XLOOKUP(B5, B8:B15, C8:E15)

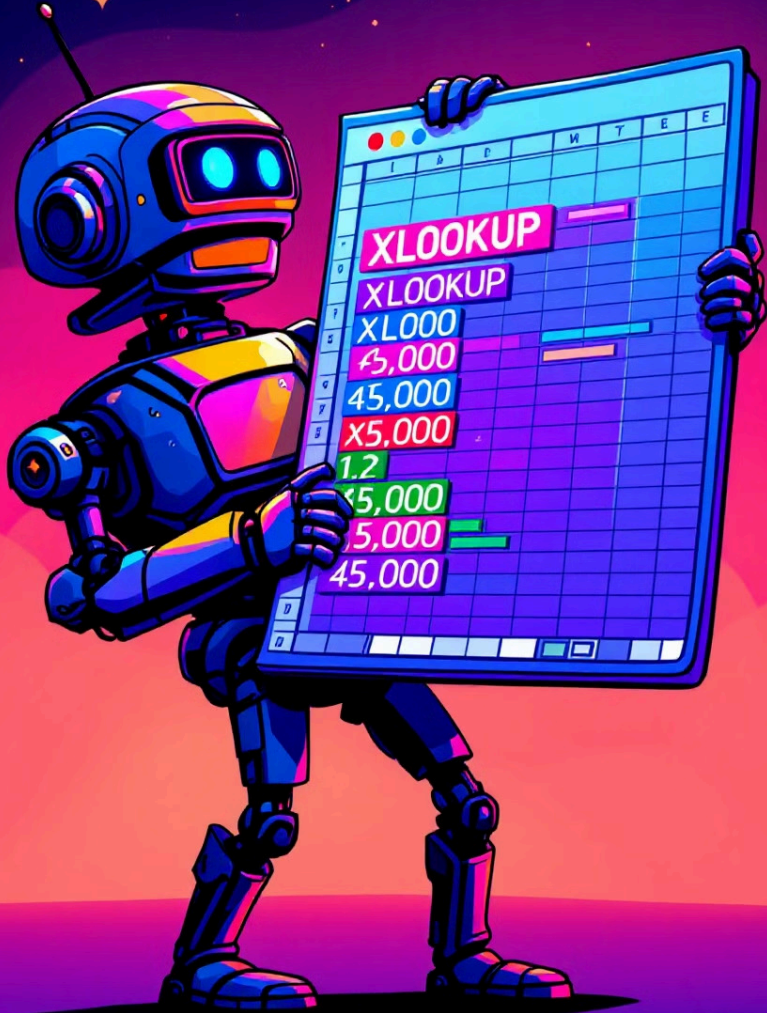
Functionality

Returns three values (First, Last, Department) with a single formula

Result

Values spill into range C5:E5

Two-Way Lookup



1

Outer XLOOKUP

Finds the appropriate group

2

Inner XLOOKUP

Retrieves entire row for a material

3

Final Result

Returns the corresponding value

Wildcard and Regex Matching

Wildcard Match

```
=TRANSPOSE(XLOOKUP("*"&G4&"*", data[Title], data,, 2))
```

Regex Match

```
=XLOOKUP("[A-Z]{3}"&F4&"[A-Z]{2,3}", B5:B16, C5:C16,, 3)
```


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How you XLOOKUP works

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1

Match - XLOOKUP match

Match is loved really.
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Search Title

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Match

Add reind ying letters on for your alligniel, that in the millers 6s al and puprsomess for the poliges.

Search examples

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2.

3

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Search

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Search modes

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4.

Match and Search Modes

1

Match Modes

0: Exact, -1: Next smaller, 1: Next larger, 2: Wildcard, 3: Regex

2

Search Modes

1: First to last, -1: Last to first, 2: Binary ascending, -2: Binary descending

3

Binary Search

Very fast, but data must be sorted as required

XLOOKUP Benefits

