



Looking Up the Value in Excel

Section 1: Learn

What is Value Lookup in Excel?

Value lookup in Excel is used to **search for specific data within a table or dataset**. This is essential for:

- **Fetching relevant information** from large datasets.
- **Automating data retrieval** without manual searching.
- **Comparing and analyzing records efficiently**.

Why Use Lookup Functions?

- **Saves Time** – Finds data instantly from large tables.
- **Reduces Errors** – Ensures accuracy in fetching the correct information.
- **Enhances Productivity** – Automates repetitive data lookups.

Types of Lookup Functions in Excel

Function	Purpose
VLOOKUP	Searches for a value vertically in a column
HLOOKUP	Searches for a value horizontally in a row
LOOKUP	Searches for a value in a row or column and returns a result
INDEX	Returns the value from a specific row and column



Function	Purpose
MATCH	Returns the position of a value in a row or column
XLOOKUP	A modern replacement for VLOOKUP and HLOOKUP

Section 2: Practice

1. Using VLOOKUP to Find a Product Price

Scenario: Search for the price of "Laptop" in a product list

A (Product)	B (Price)
Laptop	₹50,000
Phone	₹20,000
Tablet	₹30,000

=VLOOKUP("Laptop", A2:B4, 2, FALSE)

- Searches for **Laptop** in column A and returns the **Price** from column B.



2. Using HLOOKUP for Finding Marks in a Grade Sheet

Scenario: Get the marks of a student from a horizontally arranged table

	A	B	C
Nam es	Rah ul	Suni ta	R aj
Mark s	85	90	7 5

```
=HLOOKUP("Sunita", A1:C2, 2, FALSE)
```

- Finds **Sunita** and returns her **marks**.

3. Using INDEX and MATCH for More Flexibility

```
=INDEX(B2:B4, MATCH("Laptop", A2:A4, 0))
```

- Finds **Laptop** in column A and returns the corresponding price from column B.

4. Using XLOOKUP for Simplified Lookup

```
=XLOOKUP("Laptop", A2:A4, B2:B4)
```

- Directly fetches the price of **Laptop**.

5. Finding Employee Details Using Multiple Criteria

```
=INDEX(C2:C5, MATCH(1, (A2:A5="HR") * (B2:B5="Manager"), 0))
```

- Finds the name of an **HR Manager** from a dataset.
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Section 3: Know More

Frequently Asked Questions (FAQs)

1. What is the difference between VLOOKUP and HLOOKUP?

- **VLOOKUP** searches **vertically**, while **HLOOKUP** searches **horizontally**.

2. Why does my VLOOKUP return an error?

- Ensure:
 - The lookup value exists in the **first column**.
 - The column index is **within the table range**.

3. What is better: VLOOKUP or INDEX-MATCH?

- **INDEX-MATCH** is more **flexible** and works even if the lookup column is not the first one.

4. What is XLOOKUP?

- **XLOOKUP** is an advanced version of VLOOKUP/HLOOKUP that allows:
 - **Search in any direction** (left or right).
 - **Handles missing values** better.

5. Can I use wildcards with lookup functions?

- Yes! Example:

```
=VLOOKUP("Lap*", A2:B4, 2, FALSE)
```

- Finds any word starting with **"Lap"**.

Conclusion:

Excel's lookup functions make **data retrieval fast and efficient**.



Using the right function can **automate and simplify data handling** in large datasets.