

Excel Text Functions – Detailed Guide

1. LEFT(text, num_chars)

- **Definition:** Extracts a given number of characters from the left side of a text string.
 - **Syntax:**
=LEFT(text, num_chars)
 - **text** → The cell or string from which characters are extracted.
 - **num_chars** → Number of characters to extract (default is 1 if omitted).
 - **Use Cases:**
 - Extracting **prefix codes** (e.g., product code starting letters).
 - Getting initials of names.
 - **Example:**
If A2 = "ExcelFunctions"
=LEFT(A2, 5) → "Excel"
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2. RIGHT(text, num_chars)

- **Definition:** Extracts a given number of characters from the right side of a text string.
 - **Syntax:**
=RIGHT(text, num_chars)
 - **text** → The string or cell reference.
 - **num_chars** → Number of characters from the right side.
 - **Use Cases:**
 - Extracting **last 4 digits of mobile number**.
 - Getting file extensions (e.g., ".jpg", ".xlsx").
 - **Example:**
If B2 = "9876543210"
=RIGHT(B2, 4) → "3210"
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3. MID(text, start_num, num_chars)

- **Definition:** Returns a specific number of characters from the **middle** of a text string.
- **Syntax:**
=MID(text, start_num, num_chars)
 - **text** → The string or cell reference.

- **start_num** → Position of the first character to extract.
 - **num_chars** → Number of characters to return.
 - **Use Cases:**
 - Extracting middle codes like **PIN/branch code** inside an ID.
 - Picking part of names.
 - **Example:**
If C2 = "AB123CD456"
=MID(C2, 3, 3) → "123"
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4. LEN(text)

- **Definition:** Returns the total number of characters in a string (including spaces).
 - **Syntax:**
=LEN(text)
 - **Use Cases:**
 - Count characters in passwords/usernames.
 - Validate mobile numbers (10 digits).
 - **Example:**
If D2 = "Excel 2025"
=LEN(D2) → 10 (spaces included)
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5. TRIM(text)

- **Definition:** Removes **extra spaces** from text, leaving only single spaces between words.
 - **Syntax:**
=TRIM(text)
 - **Use Cases:**
 - Cleaning imported data with irregular spacing.
 - Preparing data for lookup or matching.
 - **Example:**
If E2 = " Hello World "
=TRIM(E2) → "Hello World"
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6. UPPER(), LOWER(), PROPER()

- **Definition:** Change the **text case**.
- **Syntax:**

- =UPPER(text) → Converts text to **ALL CAPITALS**.
 - =LOWER(text) → Converts text to **all lowercase**.
 - =PROPER(text) → Converts text to **Title Case** (first letter capitalized).
 - **Use Cases:**
 - Standardizing text formatting (e.g., names, addresses).
 - **Examples:**
If F2 = "anuj kumar"
 - =UPPER(F2) → "ANUJ KUMAR"
 - =LOWER(F2) → "anuj kumar"
 - =PROPER(F2) → "Anuj Kumar"
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7. CONCAT() / TEXTJOIN()

- **Definition:** Combine multiple text strings.
 - **Syntax:**
 - =CONCAT(text1, [text2], ...)
 - =TEXTJOIN(delimiter, ignore_empty, text1, [text2], ...)
 - **Key Difference:**
 - CONCAT → Just combines text (no delimiter option).
 - TEXTJOIN → Allows a delimiter (comma, space, dash) and can ignore empty cells.
 - **Use Cases:**
 - Merging first and last names.
 - Creating full addresses from multiple cells.
 - **Examples:**
If G2 = "Anuj", H2 = "Kumar"
 - =CONCAT(G2, " ", H2) → "Anuj Kumar"
 - =TEXTJOIN(" ", TRUE, G2, H2) → "Anuj Kumar"
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8. TEXT(value, format_text)

- **Definition:** Converts a number, date, or time into text in a specified format.
- **Syntax:**
=TEXT(value, format_text)

- **Use Cases:**

- Format dates as "January 2025", "DD/MM/YYYY".
- Format numbers as currency or percentage.

- **Examples:**

If I2 = 01-01-2025

- =TEXT(I2,"dd-mmm-yyyy") → "01-Jan-2025"
- =TEXT(I2,"mmmm yyyy") → "January 2025"

If J2 = 1234.567

- =TEXT(J2,"\$#,##0.00") → "\$1,234.57"

Excel Date Functions – Detailed Description

1. TODAY()

- **Definition:** Returns the **current system date** (without time).
 - **Syntax:**
`=TODAY()`
 - **Parameters:** None.
 - **Use Cases:**
 - Automatically insert today's date.
 - Calculate age, due dates, or deadlines dynamically.
 - **Example:**
If today is **27-Sep-2025**,
`=TODAY()` → 27-Sep-2025
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2. NOW()

- **Definition:** Returns the **current system date and time**.
 - **Syntax:**
`=NOW()`
 - **Parameters:** None.
 - **Use Cases:**
 - Track timestamp of entry.
 - Show real-time clock in dashboards.
 - **Example:**
If current date & time = **27-Sep-2025 06:15 AM**,
`=NOW()` → 27-Sep-2025 06:15
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3. DAY(), MONTH(), YEAR()

- **Definition:** Extract specific parts of a date.
- **Syntax:**
 - `=DAY(date)` → Returns day (1–31).
 - `=MONTH(date)` → Returns month (1–12).
 - `=YEAR(date)` → Returns year (4-digit).
- **Use Cases:**

- Extract day/month/year for reports.
 - Build custom date formats.
 - **Example:**
If A2 = 15-Aug-2025:
 - =DAY(A2) → 15
 - =MONTH(A2) → 8
 - =YEAR(A2) → 2025
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4. EDATE(start_date, months)

- **Definition:** Adds or subtracts months from a date.
 - **Syntax:**
=EDATE(start_date, months)
 - **start_date** → The original date.
 - **months** → No. of months to add (positive) or subtract (negative).
 - **Use Cases:**
 - Calculate maturity dates for loans.
 - Add/subtract billing cycle months.
 - **Example:**
If B2 = 01-Jan-2025:
 - =EDATE(B2, 3) → 01-Apr-2025
 - =EDATE(B2, -2) → 01-Nov-2024
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5. EOMONTH(start_date, months)

- **Definition:** Returns the **last day of the month** after adding/subtracting months.
- **Syntax:**
=EOMONTH(start_date, months)
 - **start_date** → The base date.
 - **months** → No. of months to add/subtract.
- **Use Cases:**
 - Get last day of billing cycle.
 - Find month-end deadlines.
- **Example:**
If C2 = 15-Jan-2025:

- =EOMONTH(C2, 0) → 31-Jan-2025
 - =EOMONTH(C2, 1) → 28-Feb-2025
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6. DATEDIF(start_date, end_date, unit)

- **Definition:** Calculates difference between two dates in **years, months, or days**.
 - **Syntax:**
=DATEDIF(start_date, end_date, unit)
 - **unit** can be:
 - "Y" → Difference in years.
 - "M" → Difference in months.
 - "D" → Difference in days.
 - "YM" → Months ignoring years.
 - "YD" → Days ignoring years.
 - "MD" → Days ignoring months & years.
 - **Use Cases:**
 - Calculate **age** in years.
 - Find exact difference in months or days.
 - **Example:**
If D2 = 01-Jan-2000, E2 = 27-Sep-2025:
 - =DATEDIF(D2, E2, "Y") → 25
 - =DATEDIF(D2, E2, "M") → 309
 - =DATEDIF(D2, E2, "D") → 9406
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7. WEEKDAY(serial_number, [return_type])

- **Definition:** Returns a number representing the **day of the week**.
- **Syntax:**
=WEEKDAY(date, [return_type])
 - **return_type** (optional):
 - 1 → Sunday=1, Monday=2 ... Saturday=7 (default).
 - 2 → Monday=1, Tuesday=2 ... Sunday=7.
 - 3 → Monday=0, Tuesday=1 ... Sunday=6.
- **Use Cases:**

- Identify weekdays vs weekends.
- Schedule tasks based on weekdays.

- **Example:**

If F2 = 27-Sep-2025 (Saturday):

- =WEEKDAY(F2,1) → 7
- =WEEKDAY(F2,2) → 6

8. NETWORKDAYS(start_date, end_date, [holidays])

- **Definition:** Returns the **number of working days** (Mon–Fri) between two dates, excluding weekends and optional holidays.
- **Syntax:**
=NETWORKDAYS(start_date, end_date, [holidays])
 - **holidays** → Optional range of dates to exclude.
- **Use Cases:**
 - Calculate project deadlines.
 - Count business days for payroll.
- **Example:**
If start = 01-Jan-2025, end = 10-Jan-2025:
 - =NETWORKDAYS("01-Jan-2025","10-Jan-2025") → 8 (excludes weekends).
If holidays = 01-Jan-2025,
 - =NETWORKDAYS("01-Jan-2025","10-Jan-2025",{ "01-Jan-2025" }) → 7