-> give me all date and time function in excel for documentation in detail

Excel offers a wide range of functions for managing dates and times, which are stored as **serial numbers** to facilitate calculations. Dates are integers representing the number of days since January 1, 1900, while times are decimals representing the fraction of a day. This system allows you to add or subtract dates and times just like any other number.

Functions for Current Date and Time

- =TODAY(): Returns the current date as a serial number. It doesn't take any arguments and updates every time the worksheet is recalculated.
- =NOW(): Returns the current date and time as a serial number. It's also a volatile function and updates with every recalculation.

Functions for Creating Dates and Times

- =DATE(year, month, day): Combines numeric year, month, and day values into a valid date. This is useful for creating dates from values in other cells or for ensuring Excel correctly interprets a date. For example, =DATE(2025, 9, 23) returns September 23, 2025.
- =TIME(hour, minute, second): Combines numeric hour, minute, and second values into a valid time. For example, =TIME(14, 30, 0) returns 2:30 PM.

Functions for Extracting Date and Time Parts

These functions help you to extract specific components from a date or time value.

- =YEAR(date_serial_number): Returns the year (as a four-digit number) from a date.
- =MONTH(date_serial_number): Returns the month as a number from 1 (January) to 12 (December).
- =DAY(date serial number): Returns the day of the month as a number from 1 to 31.
- =HOUR(time_serial_number): Returns the hour as a number from 0 (12:00 AM) to 23 (11:00 PM).
- =MINUTE(time serial number): Returns the minute as a number from 0 to 59.

• =SECOND(time_serial_number): Returns the second as a number from 0 to 59.

Functions for Date and Time Calculations

- =DATEDIF(start_date, end_date, "unit"): This is a "hidden" but very useful function that calculates the difference between two dates.
 - **Unit**: Use "Y" for a full number of years, "M" for a full number of months, or "D" for a total number of days.
 - For example, =DATEDIF(A1, B1, "Y") calculates the number of complete years between the dates in cells A1 and B1.
- =EDATE(start_date, months): Returns a date that is a specified number of months before
 or after a start date. For example, to find the date 3 months from today, you could use
 =EDATE(TODAY(), 3).
- =EOMONTH(start_date, months): Returns the last day of the month that is a specified number of months before or after a start date.
- =NETWORKDAYS(start_date, end_date, [holidays]): Calculates the number of working days between two dates, excluding weekends (Saturday and Sunday). You can optionally provide a range of holiday dates to be excluded.
- =WORKDAY(start_date, days, [holidays]): Returns a date a specified number of working days in the future or past, excluding weekends.

Excel NOW Function | Excel One Minute Functions Explained
This video is relevant as it provides a concise explanation of the NOW function, which is a key
part of Excel's date and time capabilities.