

# Excel

## How many data formats are available in Excel? Name some of them.

**Number:-** It is used generally for the display of numbers.

**Currency:-** This is used generally for monetary formats.

**Accounting:-** They line-up the currency symbols & decimal points in a column.

**Date:-** They display date & time serial numbers as data values.

**Time:-** Time formats display date & time serial numbers as date values.

**Percentage:-** They multiply 100 with the cell value & display it in the form of %.

**Fraction:-** They display the cell values in the form of a fraction.

**Scientific:-** The cell values are displayed scientifically.

**Text:-** Text format cells are treated as text even when the number is in the cell, the cell is displayed exactly as entered.

**Special:-** They are useful for tracking list & database values.

**Custom:-** Type the number format code, using one of the existing codes as a starting point.

## Difference between MEAN, MEDIAN, MODE

The mean is the average of a data set. The mode is the most common number in a data set. The median is **the middle of the set of numbers**.

## In which data types MEAN, MEDIAN and MODE are more suitable?

numerical data

## How to detect outliers?

<https://towardsdatascience.com/why-1-5-in-iqr-method-of-outlier-detection-5d07fdc82097>

$IQR = Q3 - Q1$

Lower range limit =  $Q1 - (1.5 * IQR)$ . Essentially this is 1.5 times the inner quartile range subtracting from your 1st quartile.

Higher range limit =  $Q3 + (1.5 * IQR)$  This is 1.5 times IQR+ quartile 3.

Now if any of your data falls below or above these limits, it will be considered an outlier.

## What is Scenario Manager ?

The Scenario Manager is a What-If Analysis Tool that helps us to forecast the result by changing one or more of the variable components.

## What is the purpose for Goal Seek?

[Goal Seek in Excel \(Examples\) | How to Use Goal Seek in Excel? \(educba.com\)](#)

A Goal Seek is a tool that is used to find an unknown value from a set of known values. It comes under the What-If Analysis feature of Microsoft Excel, which is useful to find out the value that will give the desired result as a requirement. This function instantly calculates the output when the value is changed in the cell. You have to mention the result you want the formula to generate and then determine the set of input values that will generate the result.

## What are the different methods to find correlation ?

[Correlation: Types, Causes and Methods to Calculate Correlation \(economicsdiscussion.net\)](#)

(1) Karl Pearson's Coefficient of Correlation Method or Karl Pearson's method.

(2) Spearman's Coefficient of Correlation Method or Rank Difference Method.

(3) Concurrent Deviations Method.

## What is randbetween used for?

## What is a choose function in Excel

The CHOOSE function returns a value from the list based on a position specified by the user.

The "index\_num" and "value 1" can take any numeric value from 1 to 254.

## Can we do any transformation related to data in Power Query?

Yes

## What are charts in MS-Excel?

column, line, pie, bar, area, scatter, map, stock, surface, radar, treemap, sunburst, histogram, box, and whisker, waterfall, funnel, combo

## Explain pivot tables and its uses.

A **Pivot Table** is used to summarise, sort, reorganise, group, count, total or average data stored in a **table**. It allows us to transform columns into rows and rows into columns. It allows grouping by any field (column), and using advanced calculations on them.

## How would you provide a Dynamic range in "Data Source" of Pivot Tables?

way-1 : create data. Make as table with name it to, insert pivot, enter range as table name, finish

way-2 : create data, formulas, name manager, give a name, refers to- =offset(first cell, 0, 0, COUNTA(first column range),COUNTA(second column range)), close, insert pivot, range as name mang name, finish

### Is it possible to make Pivot table using multiple sources of data?

You can **import multiple tables at the same time**. Import multiple tables from other data sources including text files, data feeds, Excel worksheet data, and more. You can add these tables to the Data Model in Excel, create relationships between them, and then use the Data Model to create your PivotTable.

### Difference between COUNT, COUNTA, COUNTIF and COUNTBLANK in Ms-Excel.

COUNT counts how many cells in a range contain numeric data (numbers). COUNTA counts how many populated cells in a range (i.e. not blank). COUNTBLANK counts how many blank cells in a range. COUNTIF counts how many cells in a range meet a certain condition.

### What is IF function in Excel?

The IF function is one of the most popular functions in Excel, and it allows you to make logical comparisons between a value and what you expect. So an IF statement can have two results. The first result is if your comparison is True, the second if your comparison is False.

### What is the use of LOOKUP function in Excel?

Use LOOKUP, one of the lookup and reference functions, when you need to look in a single row or column and find a value from the same position in a second row or column.

### What is the "What If" condition in Excel formulas?

What-If Analysis is the process of changing the values in cells to see how those changes will affect the outcome of formulas on the worksheet. Three kinds of What-If Analysis tools come with Excel: Scenarios, Goal Seek, and Data Tables

### What is the default value of last parameter of VLOOKUP?

By default, **VLOOKUP will do an approximate match**. This is a dangerous default because VLOOKUP may quietly return an incorrect result when it doesn't find your lookup value.

### How to find duplicates in a column?

1. Select the cells you want to check for duplicates. ...
2. Click Home > Conditional Formatting > Highlight Cells Rules > Duplicate Values.
3. In the box next to values with, pick the formatting you want to apply to the duplicate values, and then click OK.

### What is a Box Plot?

A Box and Whisker Plot (or Box Plot) is **a convenient way of visually displaying the data distribution through their quartiles**. The lines extending parallel from the boxes are known as the “whiskers”, which are used to indicate variability outside the upper and lower quartiles.

### What is a Pareto Chart?

Whiteboard: Pareto Analysis - YouTube

combination of both bar and line charts

consruct bar \*add percentages of their values cummulatively \*draw right axes \*join those through line

### Is Power Query help in merging and appending datasets

1. To open a query, locate one previously loaded from the Power Query Editor, select a cell in the data, and then select Query > Edit. For more information see Create, load, or edit a query in Excel.
2. Select Home > Append Queries. ...
3. Decide the number of tables you want to append: ...
4. Select OK.