

Lesson – 4

Table Formatting with Formulas

Microsoft Office Excel 2010 has more rows and columns than ever before with the following new limits:

For MS Excel 2010, Row numbers ranges from 1 to **1048576**; in total **1048576 rows**, and Columns ranges from A to XFD; in total **16384 columns**.

Logical Function

| Function | Description |
|----------------|--|
| AND | Returns TRUE if all of its arguments are TRUE |
| FALSE | Returns the logical value FALSE if all of its arguments are not TRUE |
| IF | Specifies a logical test to perform |
| IFERROR | Returns a value you specify if a formula evaluates to an error ; otherwise, returns the result of the formula |
| COUNT | The COUNT function counts the numeric values in the selected cells |
| COUNTIF | The COUNTIF function counts the alphabetic values in the cells within a range that meet a single criterion that you specify |
| LOOKUP | The LOOKUP function returns a value either from one-row or one-column range or from an array. |
| SUM | The SUM function gives you the addition or total sum of the selected numeric criteria |

➤ **Note:** Formula always begins with equal (=) sign.

AND

Returns TRUE if all its arguments are TRUE; returns FALSE if one or more argument is FALSE.

Syntax

AND(logical1,logical2, ...)

Logical1, logical2, ... are 1 to 255 conditions you want to test that can be either TRUE or FALSE.

SUM

Select a cell next to the numbers you want to sum, click AutoSum on the Home tab, press Enter, and you're done. When you click AutoSum, Excel automatically enters a formula (that uses the SUM function) to sum the numbers.

Syntax: **SUM()**

FALSE

Returns the logical value FALSE.

Syntax: **FALSE()**

Remark

You can also type the word FALSE directly onto the worksheet or into the formula, and Microsoft Excel interprets it as the logical value FALSE.

 Use all the options with **Practical Assignment No. - 1 & 2**

IF

This article describes the formula syntax and usage of the **IF** function in Microsoft Excel.

The **IF** function returns one value if a condition you specify evaluates to TRUE, and another value if that condition evaluates to FALSE. For example, the formula **=IF(A1>10,"Over 10","10 or less")** returns "Over 10" if A1 is greater than 10, and "10 or less" if A1 is less than or equal to 10.

Syntax

```
IF(logical_test, [value_if_true], [value_if_false])
```

IFERROR

This article describes the formula syntax and usage of the **IFERROR** function in Microsoft Excel.

Description

Returns a value you specify if a formula evaluates to an error; otherwise, returns the result of the formula. Use the **IFERROR** function to trap and handle errors in a formula.

Syntax

```
IFERROR(value, value_if_error)
```

COUNT

This article describes the formula syntax and usage of the **COUNT** function in Microsoft Excel.

Description

The **COUNT** function counts the number of cells that contain numbers, and counts numbers within the list of arguments. Use the **COUNT** function to get the number of entries in a number field that is in a range or array of numbers. For example, you can enter the following formula to count the numbers in the range A1:A20:

=COUNT(A1:A20)

In this example, if five of the cells in the range contain numbers, the result is **5**.

Syntax : **COUNT(value1, [value2], ...)**

COUNTIF

This article describes the formula syntax and usage of the **COUNTIF** function in Microsoft Excel.

Description

The **COUNTIF** function counts the number of cells with alphabetic values within a range that meet a single criterion that you specify. For example, you can count all the cells that start with a certain letter, or you can count all the cells that contain a number that is larger or smaller than a number you specify. For example, suppose you have a worksheet that contains a list of tasks in column A, and the first name of the person assigned to each task in column B. You can use the **COUNTIF** function to count how many times a person's name appears in column B and, in that way, determine how many tasks are assigned to that person. For example:

=COUNTIF(B2:B25,"Nancy")

Note : To count cells based on multiple criteria, see [COUNTIFS function](#).

Syntax : **COUNTIF(range, criteria)**

*✎ Use all the options with **Practical Assignment No. - 3***