Basic Tips for Working with Data

This guide contains some useful tips we should keep in mind when working with data in Excel.

- 1. Categorizing similar items into a row or a column
- 2. Displaying multiple data ranges on a worksheet
- 3. Formatting a data range as a Table
- 4. Prioritising important data
- 5. Avoiding the use of spaces to indent data
- 6. Adding new rows or columns

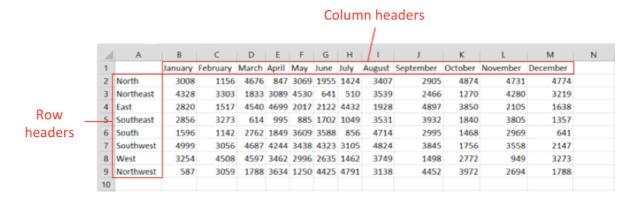
There are a number of features in Excel that allow us to organize and format data on a worksheet.

It's a good idea to keep in mind these guidelines and tips when working with data. They are often overlooked, but are very important to follow especially when we are dealing with large amounts of data in Excel.

Categorizing similar items into a row or a column

A worksheet in Excel is made up of static rows and columns. We can add headers to rows and columns to categorize cell values.

- Row headers are usually found in the first column, starting from cell A2 onwards.
- Column headers are usually found at the top row from cell B1 onwards.

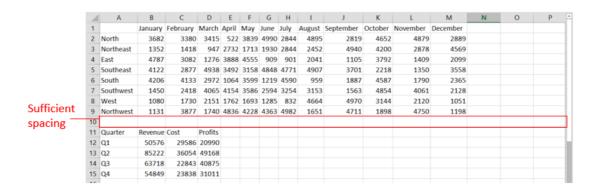


Excel will use these headers when we sort or filter data, create reports, pivot tables, graphs etc.

^{*}You may want to think about whether to format your column/row headers differently (e.g. cell fill colour, bold font) in order for them to stand out on your worksheet.

Displaying multiple data ranges on a worksheet

If you would like to display two different sets of data in a single worksheet, it is always good practice to leave at least 1 row or 1 column empty between the two data ranges, so that it is evident that they are separate. An example of this would be if you wanted to display raw data and summary data on the same worksheet.



More important than presentation, separating different data ranges helps **Excel easily identify that the data ranges are separate** when we are carrying out data analysis such as **sorting, filtering or using the AutoSum function**.

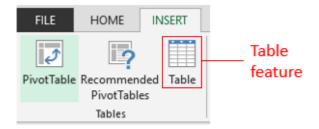
^{*}Given the above, avoid having empty rows or columns within a single data range.

^{**}You can also distinguish different data ranges using different cell fill colours or cell borders.

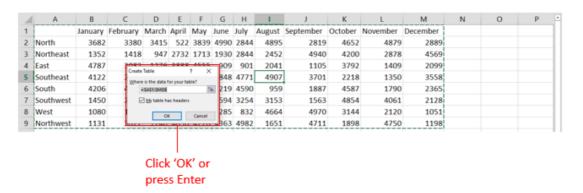
Formatting a data range as an Excel Table

We can help Excel to recognize a range of cells as a Table.

- 1. Click on a cell within the data range.
- 2. Click on the Insert Ribbon > Table.



3. Press 'Enter' or click 'OK'



4. Your data range will automatically be formatted using the default table style in Excel.



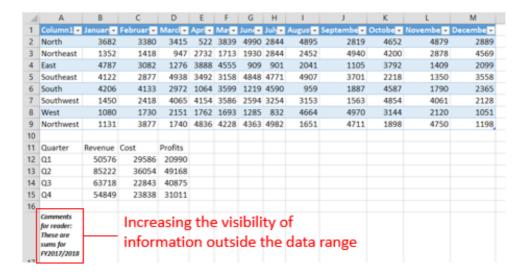
Sample table in Excel

The Table feature allows us to group multiple data ranges within a worksheet into separate tables quickly. Excel has also several inbuilt **table style formats** we can choose from.

The Table format allows us to to use table features seamlessly. (E.g. sort, filter, sum)

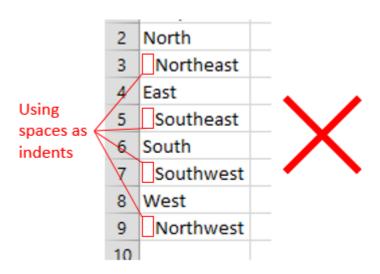
Prioritising Important Data

When we view our worksheet on a computer screen, all rows and columns may not be visible due to space constraints. Hence, it is good to ensure that you prioritize the visibility of important data. You can do this by positioning it above or below another data range in the same worksheet and closer to the first few columns/rows so that it is visible when the worksheet is opened in default view.



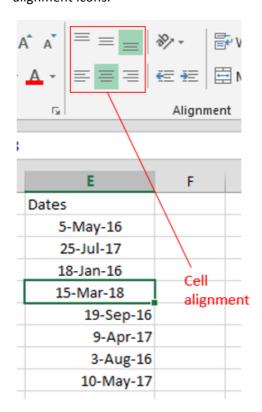
Avoiding the use of spaces to indent data

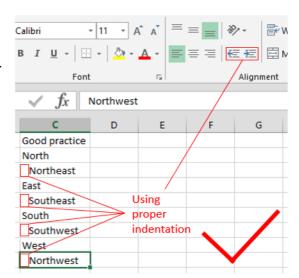
It's important to avoid indenting data in a cell by adding spaces at the beginning. Spaces can affect how Excel sorts, filters or searches values.



If you need to indent values, use the Increase or Decrease Indent icons, or the align left, align centre or align right icons, located in the Alignment group in the Home ribbon.

For example, although dates are usually aligned to the right of a cell, we can adjust their alignment using the alignment icons.

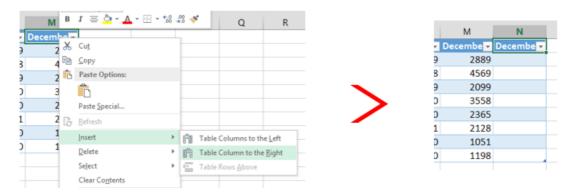




Adding new rows or columns

We can add new rows or columns anytime to our tables in Excel.

To add a new column to the right of a table, simply right-click anywhere on the last column, and select Insert > Table Column to the Right.

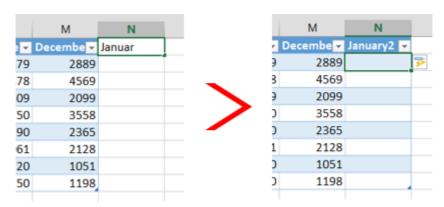


Inserting a new table column

There is another way to do this, which works because of Excel's intellisense!

Excel recognizes the format of your data when it is in a table. If we enter values into cells in a new row at the bottom or a new column to the right of our table, Excel will recognize that you are adding a row/column of data to the existing table and automatically extend both the format and formulas within our existing data set.

For this to work, the previous 3 cells in the row/column must have the same format or formulas for Excel to automatically extend them.



Automatically inserting a new table column by cell entry