Excel Level 1.2 Formatting & Range Calculations

User Guide







Contents

LESSON 1

- Cell Formatting Borders and Shading, Cell Alignment
- Number Formatting
- Format Painter

4

LESSON 2

- Table Styles, Different Style Options
- Clear Styles



LESSON 3

- Range Functions
- Sum Average Min Max- Count Counta Countblank



LESSON 4

- Error Messages
- #DIV/O #NA #NAME?
- #NULL REF VALUE #####



LESSON 5

- Manipulating Sheets
- Create, Reposition, Rename, Delete, Hide, Change Tab Colour



Course Objectives



Tasks covered in this session;

- Text and Number Formatting
 - Text formatting and quick short cuts
 - Font, Size, Colour, Borders and Shading
 - Number Formatting
 - Currency, Accounting, No of Dec. Places, Percentage, Dates and Custom Formats
- Using the Format Painter
- Table Styles
 - Advantages of using Styles, Adding a Style to existing Data
 - Creating your own Style, Clearing a Table Styles
 - Deleting a Table Style

Range Formulas and Functions

- SUM MAX MIN AVERAGE
- COUNT COUNTA COUNTBLANK
- Error Messages in functions and formulas
 - #DIV/O #N/A #NAME?
 - #NULL #REF #VALUE
 - ##### CIRC
- Sheet Manipulation
 - New, Delete, Rename, Hide, Unhide,
 - Protect
 - Copy / Move





Lesson 1

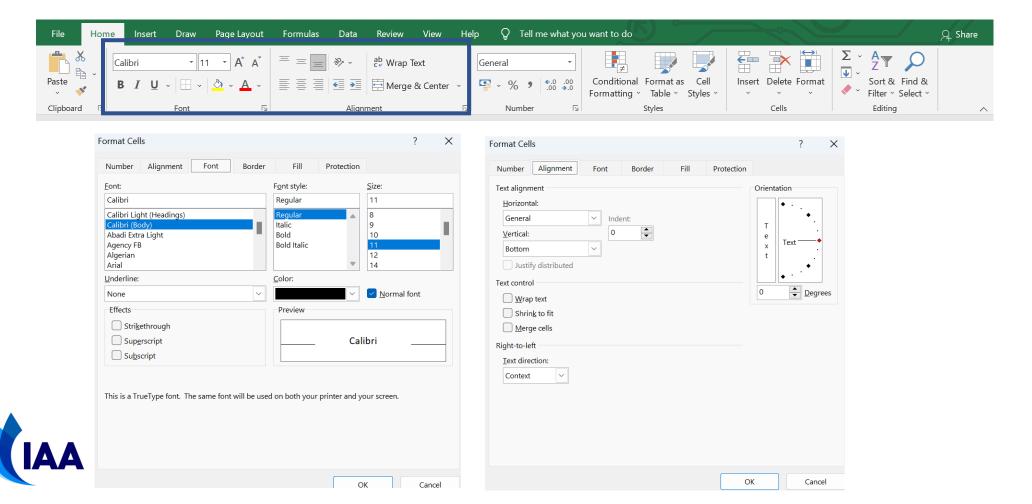
- Cell Formatting
- Borders and Shading
- Cell Alignment
- Number Formatting
- Format Painter





Cell Formatting

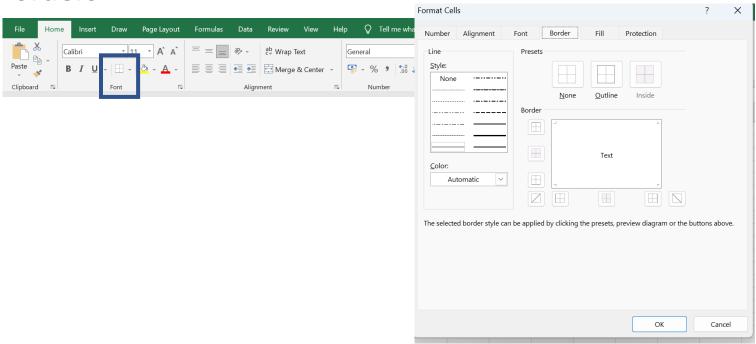
Home Tab – Font & Alignment





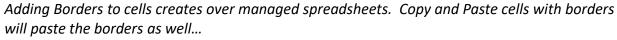
Cell Formatting

Borders









TIP: Use Print Gridlines



Cell Formatting

Shortcuts

Description	Short cut Key
Display Font Dialog Box	CTRL + 1
Bold	CTRL +B
Italic	CTRL +I
Underline	CTRL + U
Select All Cells	CTRL +A

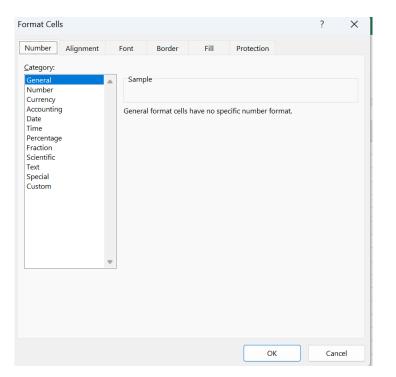




Number Formatting

Home Tab











Number Formatting

Shortcuts

Description	Short cut Key
General Format	CTRL + SHIFT + ~
Currency	CTRL + SHIFT + \$
Percentage	CTRL + SHIFT + %
Date	CTRL + #
Time	CTRL + SHIFT + @





Lesson 2

- Table Styles
- Use different Style Formats
- Update Data in a Style
- Clear Style
- Save a File
 - Different Save Options
 - Save Read only
 - Save with a Password





Table Styles

What is a Style?

 A cell style is a defined set of formatting characteristics, such as fonts and font sizes, number formats, cell borders, and cell shading

The Advantages of Styles in Excel

• Styles can save you a lot of time when you need to apply the same format to different parts of your worksheet. The advantage of using styles is that you can apply more than one formatting enhancement to a range of cells in one go. One advantage is that you can update them easily at a later date

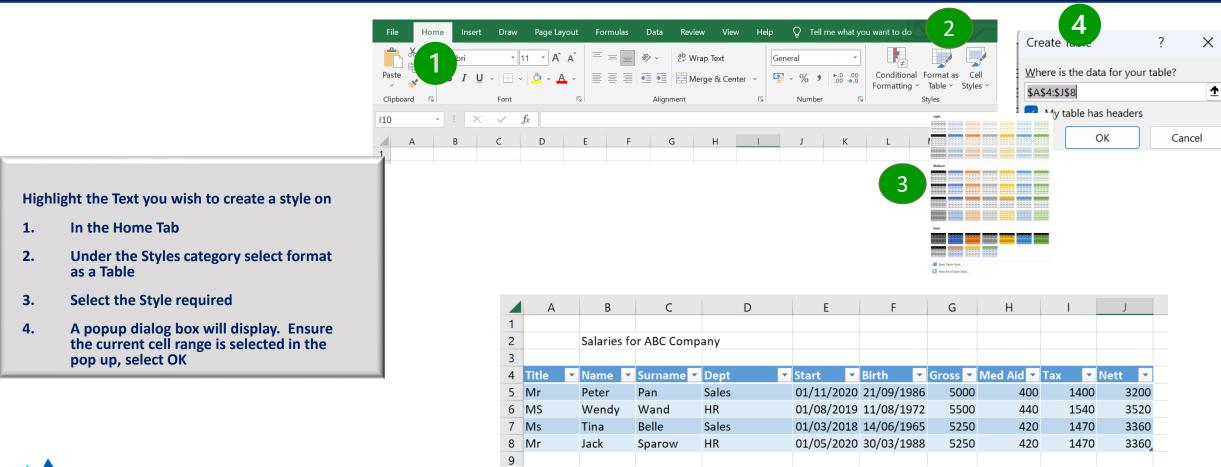
Benefits of styles compared with placing directly into formatting text in webpage

- First, it means you don't need to remember the formatting every time we want to use it again.
- Second, if you have used a particular style multiple times throughout a document, and decide you want to
 make a change to the formatting, you only need to change it in the style sheet instead of making the same
 change over and over throughout our document.
- It requires a little extra work up front, but can save you a lot of work later on.





Using an Existing Table Style in your Worksheet



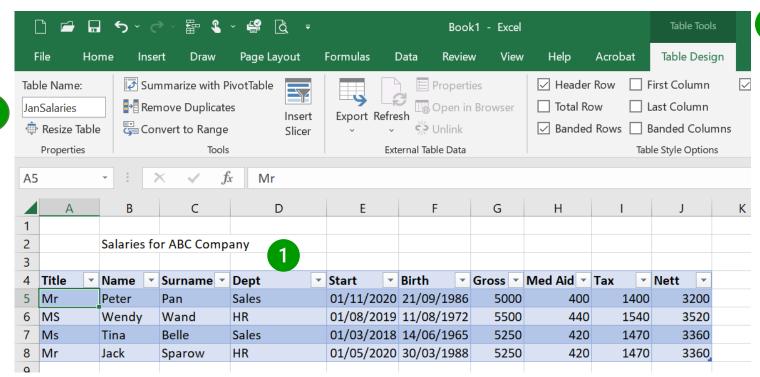






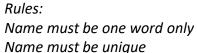
Name a Style









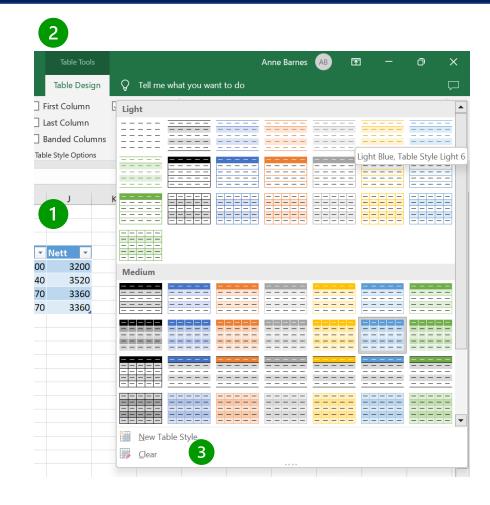




Clear a Table Style

Clear a table style

- 1. Select any cell in the table from which you want to Clear the current table style.
- 2. expand the Table Styles gallery from the Table Tools > Design tab
- 3. Click Clear. The table will be displayed in the default table format. You can also select Convert Range to table in the Table Design Tools area of the ribbon. Remember to clear the formatting from the table as well





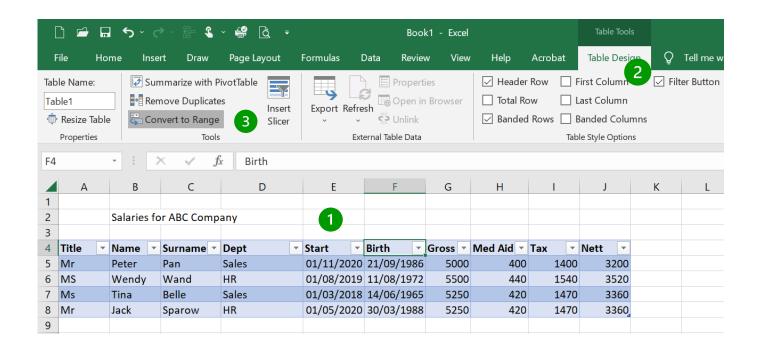




Remove a Table Style – Convert to Range

Convert a Table Style to a Range

- 1. Select any cell in the table from which you want to remove the current table style.
- 2. Right mouse click in the Table
- 3. Select Convert to Range from the Design Tab in the Tools Group
- 4. Excel will ask you to confirm your option, select Yes,









Lesson 3

- Calculations & Range Functions
 - SUM
 - MAX
 - MIN
 - AVERAGE
 - COUNT
 - COUNTA
 - COUNTBLANK
- Error Messages





Data Stats using Range Functions

To be added at the top of the worksheet or another sheet but separate from your input area:

Range Functions

=Sum(Range) =sum(D5:D10) totals the cells in the range

=Average(Range) = Average(D5:D10) returns the average value of cells in the range

=Max(Range) =Max(D5:D10) returns the maximum value

=Min(Range) =Min(D5:D10) returns the minimum value

=Count(Range) =Count(D5:D10) counts the numeric cells

=Counta(Range) =Counta(D5:D10) counts all cells with content

Countblank(Range) = countblank(D5:D10) counts blank cells





Ranges for Calculations

Grouped Together

First Cell: Last Cell

- Individual Cells
- First Cell, Next Cell, Next Cell





Error Messages

#Name

Incorrect Function name or Range name

#DIV/0 Error

Cannot Divide by 0

#N/A Error

No Value available to create the calculation on. Can be seen when using lookup tables

#Value!

• Excel displays this error when it finds spaces, characters, or text in a formula where it is expecting a number.

#Null

• This error is usually displayed when <u>cell references</u> are not specified correctly

#Ref

• This error stands for reference error. This error usually comes when a cell is deleted

#####

Column width is too narrow



TUTORIAL 3

Using Range Functions

- Select Cell G3
- Type the following formula
- =SUM(G10:G15)
- Copy the formula across to cell K3
- Select Cell G4
- Type in the Following formula
- =AVERAGE(G10:G15)
- Copy the Formula across to K4
- Select Cell G5
- Type the following formula
- =MAX(G10:G15)
 - Copy the Formula across to K5

- Select Cell G6
- Type the following formula
- =min(G10:G15)
- Copy the formula across to cell K6
- Select Cell G7
- Type in the Following formula
- =COUNT(G10:G15)





Lesson 4

- Error Messages
- #DIV/O #N/A #NAME?
- #NULL #REF #VALUE
- ####
- CIRC





Error Messages

Error	What is Means	
#DIV/O	Divide Overflow – trying to average a range of cells where the values in those cells are blank	
#N/A	This error means "no value available" or "not available." It indicates that the formula cannot find the value that we suppose it may return.	
#NAME?	Function name typed into the spreadsheet is incorrect	
#NULL	This error is usually displayed when <u>cell references</u> are not specified correctly. We get this error when we do not use the space character appropriately. The space character is called the "intersect operator," which specifies the range that intersects each other at any cell.	
#REF	This error stands for reference error. This error usually comes when We accidentally deleted the cell which we referenced in the formula. We cut and paste the referenced cell in different locations.	
#VALUE	As we deleted cell B7, then cell C7 shifted left to take the place of B7, and we got a reference error in the formula as we deleted one of the referenced cells of the formula.	





Error Messages

Error	What is Means
#####	Column width is too small for the value
CIRC	Circular reference in your formula. You are adding the cell you are working in into the formula





Lesson 5

- Worksheet
 - Add New
 - Delete
 - Reposition
 - Hide
 - Change Tab Colour





Add a NEW Worksheet

Add NEW

- 1. Select the + indicator to the right of the last worksheet
- 2. Type in the NEW worksheet name. Press ENTER to complete





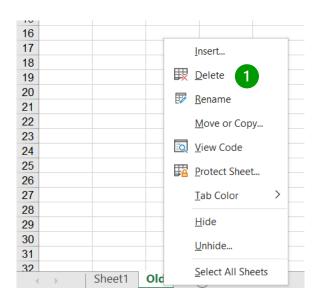




Delete a Worksheet

Delete OLD Worksheet

- 1. Right mouse click on the sheet to delete
- 2. Select Delete Sheet from the listing

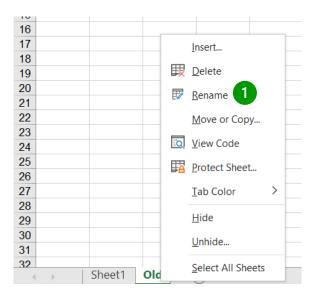


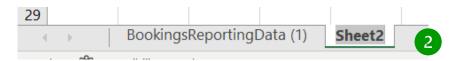




Rename a Worksheet

- 1. Right mouse click on the sheet to rename
- 2. Select Rename Sheet
- 3. Type the Sheets NEW name by overtyping the existing name. Press ENTER when complete





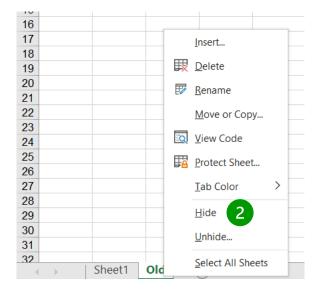


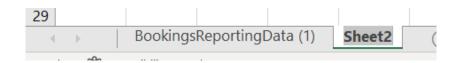


Hide a Sheet a Worksheet

1. Right mouse click on the sheet to hide

2. Select Hide



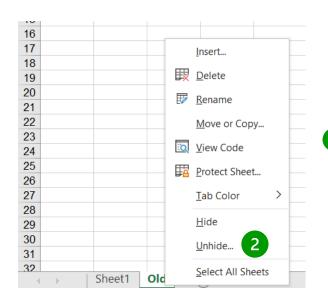


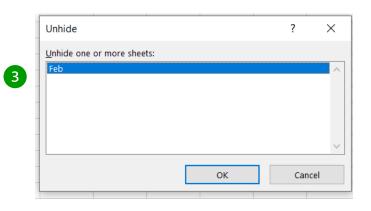




Un - Hide a Sheet a Worksheet

- 1. Right mouse click in the sheet environment
- 2. Select un-Hide
- 3. A list of hidden sheets will display
- 4. Select the sheet to un-hide. Click ok









Exercise 5

- Right mouse click on the file called Salaries
- Select Copy
- Select to a new File
- In the newly created file
- Add a New Sheet
- Rename this sheet to Sample Data
- Protect this sheet with a password of 123
 - Protect locked and unlocked cells
- Add a further sheet and call this Sample Data2
- Hide this Sheet
- Rename this file to Excel Level 1 Day 2 Sheet Manipulation





Workbooks

The different workbook types

FORMAT	EXTENSION
Latest version of Excel	.xlsx
Macro enabled	.xlsm
Excel Binary Workbook	.xlsb
Excel Template	.xltx
Excel 2000 – 2013 version	.xls



Latest version will only open in latest application

Macro Enabled files only store macros the standard Excel File doesn't

Binary Workbook used to compress data – ZIP files easier to store and retrieve

Template files are read only

Excel older version files can be opened in later versions. Remember none of the new features will be available in an older version so don't forget to change the File compatibility to the latest version. Select File Infor and update to latest versions





Worksheets

Manipulate Sheets

Reposition

Click on the Sheet Name and Drag to New position

New

Click on the +

Rename

Right mouse click on the Sheet name and type in your new name

Delete

Right mouse click on the Sheet name and select Delete

Hide

Right mouse click on the Sheet name and select Hide

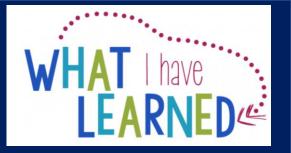
Unhide

• Right mouse click on any sheet name and select Unhide. Excel will list the hidden sheets; Click on the sheet you wish to Unhide





Course Recap



Tasks covered in this session;

- Text and Number Formatting
 - Text formatting and quick short cuts
 - Font, Size, Colour, Borders and Shading
 - Number Formatting
 - Currency, Accounting, No of Dec. Places, Percentage, Dates and Custom Formats
- Using the Format Painter
- Table Styles
 - Advantages of using Styles, Adding a Style to existing Data
 - · Creating your own Style, Clearing a Table Styles
 - Deleting a Table Style

- Range Formulas and Functions
 - SUM MAX MIN AVERAGE
 - COUNT COUNTA COUNTBLANK
- Error Messages in functions and formulas
 - #DIV/O #N/A #NAME?
 - #NULL #REF #VALUE
 - ##### CIRC
- Sheet Manipulation
 - New, Delete, Rename, Hide, Unhide,
 - Protect
 - Copy / Move





Thank you for attending our training session Questions

