How to Excel with CUFS

Part 3

Course Manual





Contents

1 Financial Information

1.1	Data vs. Information	2
1.2	Attributes of Quality Information	2

2 Pivot Tables

2.1	What are they?	4
2.2	How to create them	5
2.3	The pivot table tool bar	9
2.4	Amending the level of detail displayed	10
2.5	Re-arranging the data displayed	12
2.6	Changing the fields displayed on the pivot table	13

3 Presenting Information

3.1	General Tips	16
3.2	Report Headers and Footers	16
3.3	Layout and Formats	17

4 Charts and Graphs

4.1	Basic Process	22
4.2	Improve the layout and look of a chart	23
4.3	Sizing and moving charts around	25
4.4	Creating charts from pivot tables	26

5 Security of spreadsheets

5.1	Passwords to restrict opening	27
5.2	Passwords to prevent changes	29
5.3	Removing password protection	29

1. Financial Information

1.1 Data versus information

There is a difference between these two terms, although often they are used interchangeably.

- **Data** These are the facts, events, transactions that are inputted into a system e.g. originating from the suppliers invoice, payroll system, cash receipt etc.
- **Information** This is data that has been processed in some way so that it is more meaningful to the end user, e.g. sorted, classified, formatted and enhanced.

The Importance of Financial Information

Insufficient or inadequate financial management information may lead to:

- Poor decisions being made
- No corrective action being taken

1.2 Attributes of Quality Information

Quality information should 'add value' when it is used, therefore you should be asking:

Who will be using the information?



Why do they want it?

When do they need it by?

What format do they require?

Once you have these answers you can then ensure that the information you produce contains all the right attributes. The table overleaf lists them.

Relevant for the purpose	Think about the issue being considered and what the information is to be used for e.g. is it to predict, to analyse, to summarise or to influence decisions. Remove any irrelevant data.				
Completeness	All the information required for the decision making should be provided – it may be that well prepared, accurate - but incomplete information is worthless				
Volume	 The detail and volume of the information should be consistent with the needs of the user: Focus clearly on the issue Highlight the main points/ provide a summary Don't cloud the issue with surplus data 				
Accurate for the purpose	 How exact do the values need to be? To the nearest penny, e.g. for a VAT invoice To the nearest pound e.g. for an aged debtors list To the nearest thousand pounds e.g. forecasting expenditure over the year. 				
Reputable source	 Users must have confidence in the source of the information e.g. It has been reliable in the past. It is free from error or bias It can be reconciled with CUFS! 				
Timely	 Information should be issued within deadlines to allow for the user to consider or take any necessary corrective action e.g. Before year-end, Before a grant closes, Before last date for deposit movements In advance of a meeting to discuss. 				
Communicated through the most appropriate channel	 Think about the nature of the information (is it sensitive or complex), what is it's purpose, the requirements of the user and the speed it is required and then select the appropriate delivery method, e.g. Hard copy report, E-mail, A meeting to discuss. 				
Communicated to the right person	 Information should be communicated to the right person e.g. Is a manager only responsible for one discreet area? Is it to be forwarded to others? 				
Understandable	Choose the style and language appropriate to the level and skill of the user.				
Cost effective	Remember the costs of providing the information should not outweigh the value added.				

Working with worksheets again



If you export data from CUFS you must ensure that it continues to be kept in a secure manner. In Excel you can set passwords to restrict both viewing and updating of spreadsheet that may contain sensitive departmental or personal information. Hardcopy reports and spreadsheet containing such information should never be left out or kept unsecured

Passwords can also help prevent a user from accidentally or deliberately changing, moving, or deleting important data from a worksheet or workbook.

Protecting workbooks



a) Click on the Review tab of the ribbon and select the Protect workbook icon.

b) Tick the required protection option , optionally enter a password and then click OK

Protecting worksheets

This helps to obscure data or formulas that might confuse other users and prevents them from viewing or making changes to that data.

a) Option 1: right click on the worksheet tab and select Protect Sheet
 Option 2: Select the Protect sheet icon on the Review tab of the ribbon

Review View Developer	r Add-Ins
Image: Show/Hide Comment Image: Show All Comments Next Image: Show Ink	Protect and Share Workbook Protect Protect Share Sheet Workbook Workbook
omments	Changes

b) Optionally, enter a password of your choice and click on OK



When you protect a worksheet it automatically "locks" all the cells on the worksheet.

This will prevent anyone making changes to these locked cells e.g. they will not be able to insert, modify, delete, or format data in a locked cell.

However, you can specify what someone can change by clicking the appropriate option.

Protect Sheet	
Protect worksheet and contents of locked cells	
Password to unprotect sheet:	
••••	
Allow all users of this worksheet to:	
Insert columns	
Insert hyperlinks	
Delete rows	•
Use AutoFilter	
Use PivotTable reports	
Edit scenarios	
OK Cancel	

E.g. If you are protecting a Pivot table report remember to scroll down and check this options otherwise your user will not be able to amend/switch the pivot view (which sort of goes against the whole purpose of a Pivot table!)

c) If using a password re-enter it to confirm and click on OK

Confirm Password	? ×
Reenter password to proc	ceed.
•••••	
Caution: If you lose or for recovered. It is advisable corresponding workbook a (Remember that passwor	get the password, it cannot be to keep a list of passwords and their and sheet names in a safe place. ds are case-sensitive.)
	OK Cancel

Now if someone tries to change the worksheet they will receive a warning message.

WARNING:

Passwords are case sensitive and they are stronger if you include numbers, symbols and mixed case. HOWEVER, if you forget your password, you may have to resort to code breaking software to get it back (at a price)

TIP: If the data is not sensitive, then just protect your work from being altered by locking cells/sheets

Locking just a range of cells

When you protect a worksheet, all cells are locked by default, which means that they cannot be edited. To enable cells to be edited while leaving only some cells locked, you can unlock all the cells and then lock only specific cells and ranges before you protect the worksheet.

a) Make sure that the worksheet is unprotected

b)	Select the whole worksheet by clicking on the Select All button on the top-left of		A
	the spreadsheet.	1	CUFS UAT Testing Overview
		2	
		3	
		4	
		5	Inroe

c) From the ribbon select the Home tab and then in the Font group click on the little expansion arrow to launch the Format Cells window.

Cali	bri		•	11	٠	A A
в	I	<u>u</u> .	11	•	3	• <u>A</u> •
		F	ont			0

d) On the **Protection** tab, clear the **Locked** check box, and then click **OK**.

	F	ormat Cells	- name	1400 - 1				
Make sure that this box is unticked		Number	Alignment	Font rmulas has ton).	Border	Fill you protect	Protection the worksheet	(Review tab, Changes
								OK Cancel

NB. This means that at the moment if you protect your worksheet all the cells will automatically be unlocked.

- e) Return to your worksheet and highlight just the cells that you want to lock.
- f) Go back to the **Home** tab and then in the Font group click on the little **expansion arrow** to launch the Format Cells window once again.
- g) On the **Protection** tab, tick the **Locked** check box, and then click **OK**.
- h) Now protect your sheet as before: Review tab >Protect Sheet

Hiding/Unhiding Worksheets

a) To hide a worksheet from view right click on the worksheet tab and select Hide



- b) To un-hide a sheet, right click on any worksheet tab and select Unhide.
- c) Select from the list of hidden sheets which ones that you want to re-display and click OK

Unhid	e	ACEA	2	X
Unhid	e sheet:			
Pivot	table			
Shee	t2			
				-
		ОК	Cance	

Hiding/un-hiding cells

This is a very similar process to that as hiding a sheet.

- a) Highlight the individual columns or rows that you wish to hide and right click
- b) Select Hide from the context menu

To unhide the cells:

- If columns were hidden : go into the column heading bar and right click
- Select Unhide
- If rows were hidden follow the steps above but ensure that you are on one of the row

numbers first.

Sharing workbooks

Sometimes you will want to share your workbook with others and enable it so that everyone can edit the contents simultaneously.

However, once the workbook has been shared certain functions will no longer operate. These include:

- Creating a table
- Merging or splitting merged cells
- Deleting worksheets
- Adding or changing conditional formats
- Creating or changing existing charts
- Amendments to protection and passwords
- Inserting subtotals
- Creating or changing Pivot table reports
- a) Open the workbook that you would like to share
- b) On the ribbon select the Review tab > Share Workbook

Rev	iew	View Develope	r Add-In	IS			
	2	Show/Hide Comment				gin P	Protect and Share Workbook
	b	Show All Comments				<u>م</u> ال	Allow Users to Edit Ranges
ext	Ø	Show Ink	Unprotect Sheet	Protect Workbook	Share Workbook	ד 🚮	Track Changes 🔹
nents					Cha	nges	

c) On the **Editing** tab tick the box to **allow changes** by more than one user at the same time.

Share Workbook	? ×
Editing Advanced	
Allow changes by more than one user at the same time allows workbook merging.	e. This also
Who has this workbook open now:	
Karen Sheldon (Exclusive) - 21/11/2011 13:54	*
	*
Rei	move User
ОК	Cancel

d) Click **OK** and then **OK** to the message asking to save.

Presenting Information

General Tips

There are a number of ways that data can be presented - and Excel can help you with this - but in all circumstances information should be:

- **Clear**: Take account of the users' abilities, aggregate and classify if appropriate, provide summaries of key issues and supporting explanatory notes.
- **Comparable**: Consistent, standardised, regular formats, layouts. Notes to assist interpretation particularly where there are changes in treatment with comparable figures e.g. from a prior period

Table Layouts and formats

You can improve the look and clarity of your report by altering its format, fonts, backgrounds and introducing colours. This can be done either manually or by using one of the icons from the *Styles* group on the ribbon's **Home** tab.



Format as Table

From here you can choose from one of the standard table templates. Typically these will shade in column headings and rows in various colour waves to make it easier to read, below is an example.

Source of funds	Source of Funds Description 🔻	Cost Centre code 💌	Cost Centre Description	T
AAAA	Chest Non Payroll	AGMA	Procurement Services - An	E
AAAA	Chest Non Payroll	AGBG	Training	E/
AAAA	Chest Non Payroll	AGBL	Procurement Services	EE
AAAA	Chest Non Payroll	AGBM	Taxation and Property	EE
AAAA	Chest Non Payroll	AGBC	Director of Finance	EE

Cell Styles

If you wish you can use one of the automatic fonts/colour waves to group different sets of data together in your spreadsheet.

Cell Styles *						
Good, Bad and Neut	tral					
Normal	Bad	Good	Neutral			
Data and Model						
Calculation	Check Cell	Explanatory T	Input	Linked Cell	Note	
Output	Warning Text					
Titles and Headings						
Heading 1 Heading 2		Heading 3	Heading 4	Title	Total	
Themed Cell Styles						
20% - Accent1	20% - Accent2	20% - Accent3	20% - Accent4	20% - Accent5	20% - Accent6	
40% - Accent1	40% - Accent2	40% - Accent3	40% - Accent4	40% - Accent5	40% - Accent6	
60% - Accent1	60% - Accent2	60% - Accent3	60% - Accent4	60% - Accent5	60% - Accent6	
Accent1	Accent2	Accent3	Accent4	Accent5	Accent6	
Number Format						
Comma	Comma [0]	Currency	Currency [0]	Percent		-
Mew Cell Style						
Merge Styles						

Conditional Formatting

Excel 2010 provides you with many opportunities to highlight values that meet criteria you specify.

- a) Firstly, select the data area you want the conditional formatting to operate on.
- b) From the Home tab on the ribbon select Conditional Formatting
- c) Select Highlight cells rules
- d) From the menu select the criteria that you want to apply to your data

Conditional	
Highlight Cells Rules	<u>G</u> reater Than
Top/Bottom Rules	Less Than
Data Bars >	<u>B</u> etween
Color <u>S</u> cales	Equal To
Icon Sets	<u>ab</u> <u>T</u> ext that Contains
Image:	A Date Occurring
Manage <u>R</u> ules	<u>D</u> uplicate Values
	More Rules

Greater than

specify your criteria, e.g. items over £2000	Greater Than Format cells that are GREAT 2000	ER THAN:	from the drop down list indicate how cells meeting this criteria will be displayed
	G	Н	I
Toners, Ink	EK	Computing Supplies	1,045.39
1edia Drives	EK	Computing Supplies	10.73
laintenance a	EK	Computing Supplies	2,499.99
	EK	Computing Supplies	189.00
	EK	Computing Supplies	420.00
	EK	Computing Supplies	1,488.80
	EK	Computing Supplies	7,694.94
	EK	Computing Supplies	810.40
tering	EK	Computing Supplies	63.00

You can also quickly apply statistical ranking to your data





	ER	Professional and Bought in Services	4,838.25
	ER	Professional and Bought in Services	125.00
	ER	Professional and Bought in Services	1,547.50
	ER	Professional and Bought in Services	11,932.99
	ER	Professional and Bought in Services	5,222.29
	ER	Professional and Bought in Services	6,314.00
fessional & Bou	ER	Professional and Bought in Services	2,350.00
fessional & Bou	ER	Professional and Bought in Services	3,389.00
fessional & Bou	ER	Professional and Bought in Services	9,769.14
	ES	Stationery and Office Supplies	28.20

"Comments" linked to a cell

Adding comments to spreadsheet cells allow notes to be added without typing directly into a cell. The comment is typed into a pop-up box. You can then choose how to display options the comments. For example, they can be permanently displayed or just be indicated by a small red triangle.



Adding and editing a comment

- a) Click in the cell where you would like to add a comment
- b) Either right click and select 'Insert Comment' from the menu or

from the Review tab on the ribbon select New Comment

One you have a comment added to a cell you can edit and delete comments as required either by right clicking on the cell and selecting the required function from the menu or by navigating to the Review tab in the ribbon.



Displaying all comments

To display on screen

- Click on the Show All Comments icon in the ribbon
- Clicking on the icon again will Hide all comments

To list at the end of a printed worksheet

a) From the Page Layout tab in the ribbon expand the Sheet Options group

Gridlines	Headings
View	View
Print	Print
Sheet Op	tions 🕞

- b) In the comments field select 'at end of sheet' from the drop down list
- c) Click on OK
- d)

NB. Show Ink

This is a facility to display any handwritten notes that have been added to your excel file using a tablet or stylus device.

Printing

Printing Layouts

There is nothing more annoying to your spreadsheet recipient who is quickly printing out your spreadsheet just before they go into a meeting to find that when they get to the printer that the data has spread itself out over 8 or 9 pages, with sometimes only one or two columns on a page and invariably the grand totals completely separate from all the column or row headings!

Therefore, always take a moment to ensure that the pages are sensibly formatted before you forward your spreadsheet on to someone else. Key points to consider are:

- Should the page be orientated portrait or landscape?
- Is it possible to get all the columns (and/or rows) on one page and the type still big enough to read?
- o If the data does go across more than one page have you got:
 - row/column headings on each page ?
 - page numbers and headers ?
- Does it really need to be on A3 rather than A4 paper (if so you may need to send hard copies)?

Formatting all the sheets in a workbook in one go

- a) Right-click on any worksheet name tab
- b) Select All Sheets

To change the orientation of the pages

- a) On the ribbon select the Page Layout tab
- b) Use the Orientation icon to switch between portrait and landscape



Scale all the columns /rows onto one page

There are two methods of doing this

Option 1:

- a) On the ribbon select the **Page Layout** tab
- b) From the Scale to Fit group select 1 page from the drop down list for width.

Add-Ins		Desi	gn		
🚍 Width:	1 pag	ge	•	Gridlines	
🗓 Height:	Auto	matio	С		
🖳 Scale:	1 pa	ge			
Scale to	2 pa	ges			
ocare et	3 ра	ges			
	4 pa	ges			
8	5 pa	ges			
С	6 pa	ges			
	7 pa	ges			
	8 pages				
	9 pages				
	.	Мо	re F	ages	

Option 2:

- a) On the ribbon select : File tab and then Print
- b) Click on the drop down list for Custom scaling options
- c) Select Fit all columns on One Page



Specifying the paper size to print out onto

- a) On the ribbon select the Page Layout tab > Print titles icon
- b) Select the Page tab in the Page Setup window
- c) Select the appropriate paper size from the drop down list
- d) Click on **OK**

Page Setup	? ×
Page N	largins Header/Footer Sheet
Orientation	○ Portrait ▲ andscape
Scaling	o: 76 🚔 % normal size
Eit to:	1 page(s) wide by tall
Paper size:	A4
Print guality:	Statement Executive A3
Fi <u>r</u> st page nun	A4 A5 B4 (IIS)
	(212) +0
	Print Previe <u>w</u> Options
	OK Cancel

To add headers or footers in one go to all the sheets in your workbook

It sounds obvious but you should always include a title for your report that includes – as a minimum - details of your department, the account segment(s) being analysed and the time period that the data covers.

- a) Right-click on any worksheet name tab
- b) Select All Sheets
- c) In the ribbon select Insert tab > Headers and footers
- d) Insert your required header and/or footer information as before onto your first worksheet.

NB. Rather than type in items manually consider using the elements from the ribbon as they will then update automatically for each sheet. Particularly useful ones include

Sheet Name ...

To insert the name from the worksheet tab into the Header simply select the **Sheet** name icon and then **Save**.

#		7									
Page Number	Number r of Pages	Current Date	Current Time	File Path	File Name	Sheet Name	Picture	Format Picture	Go to Header	Go to Footer	
	• (e)	fa	AAA	A	Elements		+		Navig	Jation	-
	· · · 1	2	3	4	5	6	77	8 1 9	10	11	· • •
	А			В				С			_
Н	leader										
								&[Ta	b]		

Page numbering

Select first the **Page Number** icon then manually type in "of" and then select the **Number of pages** icon



Using this method each work sheet will have its own page numbering system i.e. if sheet 1 has 3 pages each will include **'Page ? of 3'** in the footer, whereas if sheet 2 has 4 pages each of its pages will be '**Page ? of 4'**

Printing out the column headings at the top of each page

Often you will have a spreadsheet that contains many rows of data which will thus print out over several pages. You can get Excel to repeat the column headings from the first page on each subsequent page that you print.

NB. This has to be done separately for each worksheet within your workbook.

a) On the ribbon select the Page Layout tab > Print titles icon

Page Layo	ut	Formulas	Data	a Review	View
	I				
Orientation	Size	Print Area 🔹	Breaks	Background	Print Titles
	Pa	ge Setup			

- b) In the Page set up window click into the Rows to repeat at the top field
- c) Enter the reference for the row on your spreadsheet that contains your column titles, e.g. \$1:\$1 is row 1 (alternatively you could just highlight the row on the spreadsheet)
- d) Click OK

highlight	Page Setup
the row that	Page Margins Header/Footer Sheet
contains your	Print area:
column headings -	Rows to repeat at top: \$1:\$1
	Columns to repeat at left:
many readers	Print
find grid lines	Black and white Cell errors as: displayed Draft guality
useful when	Row and column headings Page order
reading reports	 Own, then over Over, then down
	Print Print Preview Options
	OK Cancel

Printing out the whole workbook in one go

- a) From the ribbon select File tab > Print
- b) Under the first set of Settings select Print Entire Workbook



Viewing/Printing out formula

Sometimes you may want to review the formulas that either you or someone else has used when creating a spreadsheet. Rather than hover over each individual cell and looking at the formula bar to see what is entered use one of the Formula Auditing functions.

a) On the ribbon select Formulas tab > Formula Auditing > Show formulas



b) Excel will then display the formula in each cell rather than its resulting value. Excel will automatically widen the cells to ensure that the whole of the formula is displayed.

Н	l l
Type code	Transaction type
F	=VLOOKUP(H2,'Transaction Type'!\$B\$3:\$C\$28,2,FALSE)
L	=VLOOKUP(H3,'Transaction Type'!\$B\$3:\$C\$28,2,FALSE)
L	=VLOOKUP(H4,'Transaction Type'!\$B\$3:\$C\$28,2,FALSE)
L	=VLOOKUP(H5,'Transaction Type'!\$B\$3:\$C\$28,2,FALSE)
X	=VLOOKUP(H6,'Transaction Type'!\$B\$3:\$C\$28,2,FALSE)

- c) If you wish you can then print your spreadsheet in the normal way to check manually (remember to include column/row headings in your print to make it easier to identify which cell you are looking at).
- d) To revert back to the normal view simply click on the Show formulas icon again.

4. Charts and Graphs

Sometimes a chart may be a better way of displaying information giving more clarity with a visual presentation of data.

4.1 Basic process

	A1	•	(<i>f_x</i>	Period	
	А	В	С	D	E
1	Period	Currency	2008-09	2009-10	
2	Aug	GBP	12,215.05	6,617.80	
3	Sep	GBP	34,785.31	55,713.34	
4	Oct	GBP	39,138.02	40,266.39	
5	Nov	GBP	26,258.62	35,117.51	
6	Dec	GBP	29,185.14	-13,923.67	
7	Jan	GBP	3,222.24	8,914.81	
8	Feb	GBP	-16,237.93	115,907.64	
9	Mar	GBP	15,989.69	-47,382.34	
10	Apr	GBP	21,434.75	32,405.19	
11	May	GBP	31,677.52	38,011.08	
12	Jun	GBP	54,510.02	114,138.28	
13	Jul	GBP	-25,916.12	-67,854.68	
14					-
15					

a) Highlight your data (including column/row labels)

b) From the ribbon, select **Insert tab** and review the Charts group of functions.

	₩.	٢	-		:-:-	Ö
Column *	Line	Pie *	Bar	Area	Scatter	Other Charts ∗
		(Charts			E.

- c) Select the type of chart you want to use to display your data (e.g. 'Column')
- d) Then select which version of this type (*e.g.* 3D Clustered column) from the sub menu.
- e) Excel will then automatically display your chart in the worksheet containing the data table.

	₩<	٢	-		:-
Column •	Line	Pie *	Bar •	Area	Scat
2-D Co	lumn				
đh					
3-D Co	lumn				
h				J]
Cylinde	er				
Cone					
MA		<u>A</u>			
Pyrami	d				
MM	,				
alb All	Chart T	ypes			

4.2 Improve the layout and look of a chart

Once the chart has been generated and is selected a new Chart Tools ribbon will be displayed.

X 🗳 6	- 0	1.0	Finar	ice AG [Co	mpatibili	ty Mode] - 1	Aicrosof	t Excel	Compa.		Chart Tool	5	el Marriel Marriel	-	_	
File	Home	Insert	Page Layout	Formula	as Data	Review	View	Developer	Add-Ins	Design	Layout	Format				
Change Chart Type	Save As Template	Switch Row/Colur	Select nn Data		i li			balb,	Ы	5		_		he	<u>h</u>	Move Chart
Ту	pe	Da	ata		Chart Layo	uts							Chart Styles	 		Location

Adding titles

All charts should have a Title and so should each axis identifying what is represented.



Chart titles

- a) Select Chart Tools > Layout tab>Chart Title > Above Chart.
- b) Type in your chart title and format the font as required.
- c) To edit/delete the title simply click on it and type.

Axes Titles

- a) Select Chart Tools > Layout tab> Axis Titles > Primary Horizontal /Vertical Axis
- b) Select from the pick lists where/how you would like the axis labels orientated
- c) Type in your required axis titles and format the font as required.
- d) To edit/delete an axis title simply click on it and type.



To move the axis labels to the bottom of the chart

a) To achieve the layout shown above select Chart Tools > Layout tab.
b) Select Axes> Primary Horizontal Axis>More Primary Horizontal axis options

evelope	r Add-Ii	ns De	sign	Layout	Format	t			
dn.			.100			1			
Axes	Gridlines *	Plot Area ∗	Chart Wall ₹	Chart Floor ₹	3-D Rotation	Trendline ,	Lines	Up/Down Bars ▼	
	Primary <u>H</u> or Primary <u>V</u> er	r <mark>izontal Ax</mark> tical Axis	is 🕨		None Do not di	isplay Axis			
۹ <u>ــــــــــــــــــــــــــــــــــــ</u>					Show Left to Right Axis Display Axis Left to Right with Labels				
				<u>din</u>	Show Ax Display A marks	is without l xis without l	abeling abels o) r tick	
				<u>"In</u>	Show Rig Display A	to Left xis Right to	Axis Left wit	h Labels	
			1	<u>M</u> o	re Primary	/ Horizontal	Axis Op	otions	

c) In the Axis Options window ensure that:

•	Major tick mark type	=	Outside
•	Axis labels	=	Low

d) Click Close

ormat Axis		2 X
Adds Options Number Fill Line Color Line Style Shadow Glow and Soft Edges 3-D Format Alignment	Axis Options Interval getween tick marks: 1 Interval between labels: Automatic Specify interval unit: 1 Categories in reverse order Label gistance from axis: 100 Axis Type: Axis Type: Axis Type: Axis Type: Date axis Date axis Major tick mark type: Uutside Minor tick mark type: Uutside Minor tick mark type: Uutside Vertical axis crosses: Automatic	Make sure that this says outside Change this to Low
	At maximum category	Glass

Changing the axis' scale

- a) Right click on the existing scale on the axis
- b) Select Format Axis
- c) Adapt as required
- d) Click Close

To remove the decimal points

- select Number
- enter 0 for decimal places

To display values

select Axis

change the

thousands

display units to

Options

in thousands

•





Data labels

When adding labels, be careful that they don't clutter up your chart and make it difficult to read (especially on bar charts) – consider reformatting the labels so that they use a different font, colour or size.

Tip: Labels work particularly well with pie charts – see example overleaf.



a) To add select Chart Tools > Layout tab> Data labels

in								
Data Labels *	Data Table ≚	Axes ,	Gridlines ,	Plot Area				
	None Turn off Data Labels for selection							
	Center Display centeree	Data Lal d on the	bels and po data point	osition - (s)				
	Inside E Display inside th	Inside End Display Data Labels and position inside the end of data point(s)						
	Outside Display outside	Outside End Display Data Labels and position - outside the end of data point(s)						
Best Fit Display Data Labels and position with Best Fit								
More Data Label Options								

b) Select the required position for your label

NB,

Excel recognizes your type of chart and automatically provides you with position options to match that type.

c) Format the label's font, colour, size as appropriate

d) To convert the labels' values to percentages select the More Data Label Options

e) In the Label options box un-tick values and tick percentages instead.

Format Data Labels	2 X
Label Options	Label Options
Number	Label Contains
Fill	Series Name
Border Color	Category Name
Border Styles	Percentage
Shadow	✓ Show Leader Lines
Glow and Soft Edges	Reset Label Text

Format and styling of charts

Excel 2010 has a variety of templates, styles and formatting options for you to use to make your graph more colourful and appealing for your reader.

These can be accessed in the main via the Design tab within the Chart Tools ribbon



Alternatively, you may do this manually by right clicking on any of the elements in your chart and selecting the '**format** ...' option from the context memu that pops up.

Sizing and moving charts around

It is easy to resize and move charts around charts that have been inserted into existing pages of a workbook or another file.

To resize

Highlight your chart and place your curser over one of the sets of tiny dots in its grey border until your curser becomes a small double headed arrow. Now just drag either in or out until you reach the required size



To move a chart within a worksheet

Click anywhere in the chart area, hold down the left mouse key down and drag the chart to the required spot.

To move Chart to another worksheet/workbook

- a) Select Chart Tools> Design tab > Move Chart
- b) Specify from whether you would like your chart to be placed on a new sheet or in an existing one from the drop down list.
- c) Click OK

Copying into a word document

Highlight the chart and then copy and paste into the required document



Creating Charts from Pivot tables

You can also chart the data in your pivot table.

- a) Simply highlight the data in your pivot table that you would like to chart
- b) Select PivotTable Tools ribbon> Options Tab > Pivot chart

PivotTab	le Tools		-, -	-	-			
Options	Design						+	
	B			Σ	%	fx		12
hange Data Source *	Clear	Select *	Move PivotTable	Summarize Values By 🔻	Show Values As	Fields, Items, & Sets *	PivotChart	OL Toc
ata		Action	S		Calculation	ns		То

- c) Select the required style of chart
- d) The chart will be displayed automatically within your existing worksheet.
- e) Amend the format, colour, labelling, size etc. until you are happy. Don't forget to give it a header and footer in the normal way.



Your chart will automatically update itself to reflect your pivot table view.

i.e. the example above is displaying data for all cost centres, however if I restrict this to just a range of cost centres the chart display is updated (as shown below).

Note that the filter symbol is displayed next to cost centre to highlight that this is only a subset of information



You can apply the filters directly within the chart too by clicking on drop down arrows.