



Power Tool For Excel 2003/2007

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1. Installation

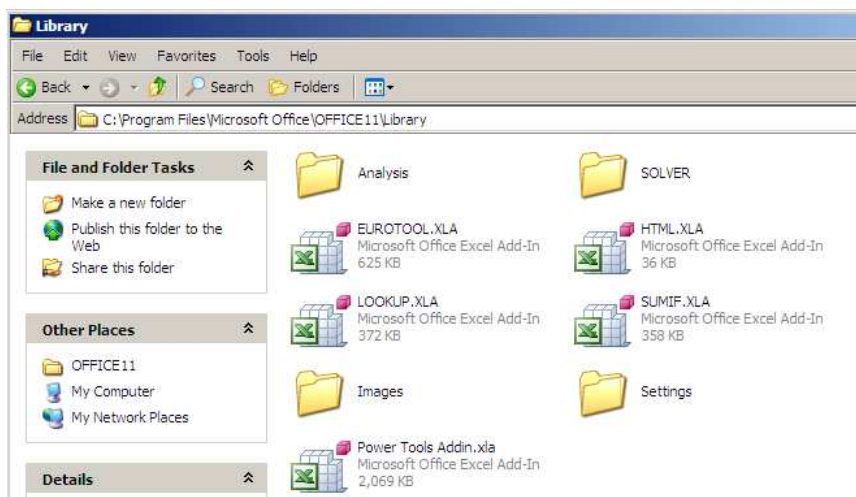
Power tools for excel is an easy to install build for excel application users. The release package comprises of the following files as mentioned:

- Power Tools Addin.xla
- \Images\Google_Icon.jpeg
- \Images\Mask Google_Icon.jpeg

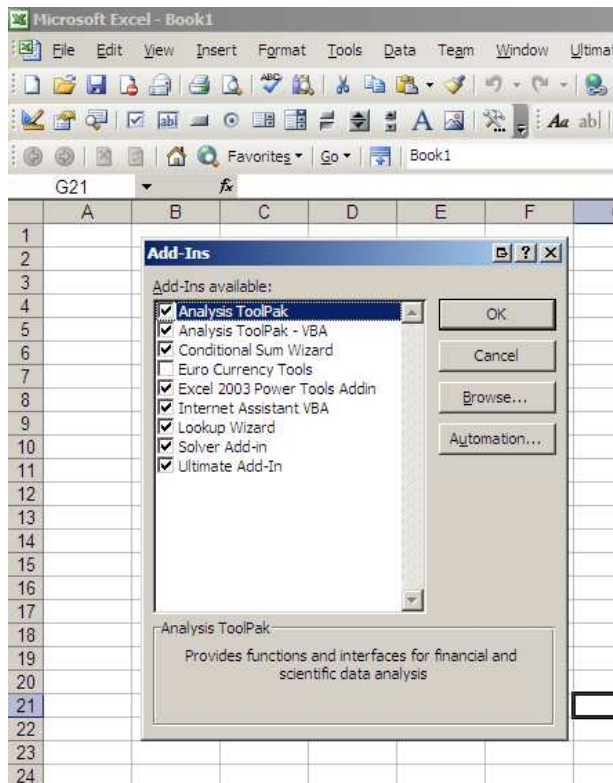
* \ indicates relative folder structure.



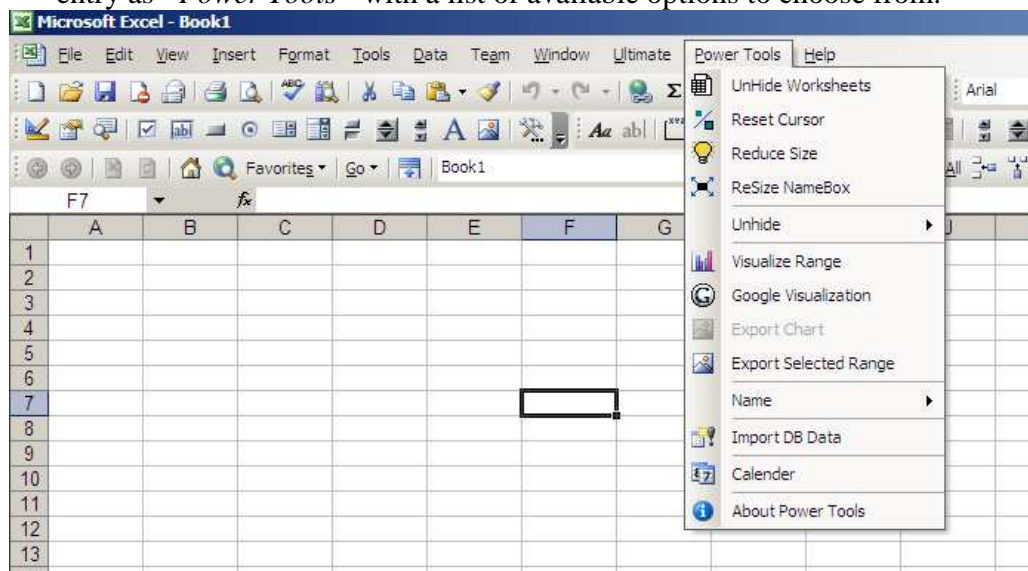
In order to install the addin copy the above mentioned files to the native excel application directory library folder and rest is configurable from the excel interface.



Then start up the excel and from the *Tools -> Add-Ins..* menu, the addin must be listed in the list and in order to enable the addin in the excel environment select check the addin listed as “*Excel 2003 Power Tools Addin*” and click *Ok* and your addin is installed.



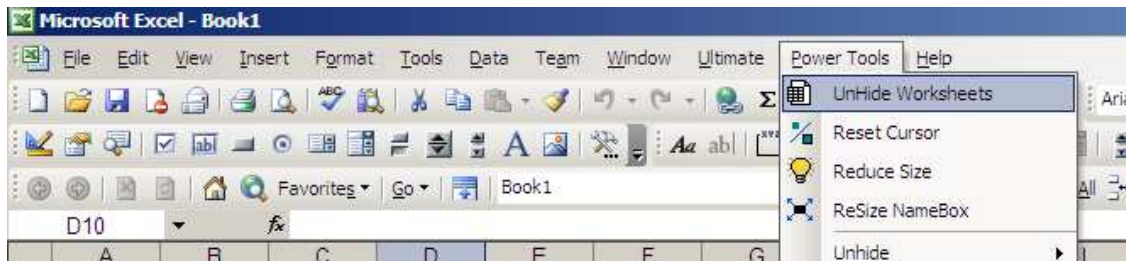
This can be verified by the checking the menu bar on Excel listing a new added menu entry as “Power Tools” with a list of available options to choose from.



2. Functions

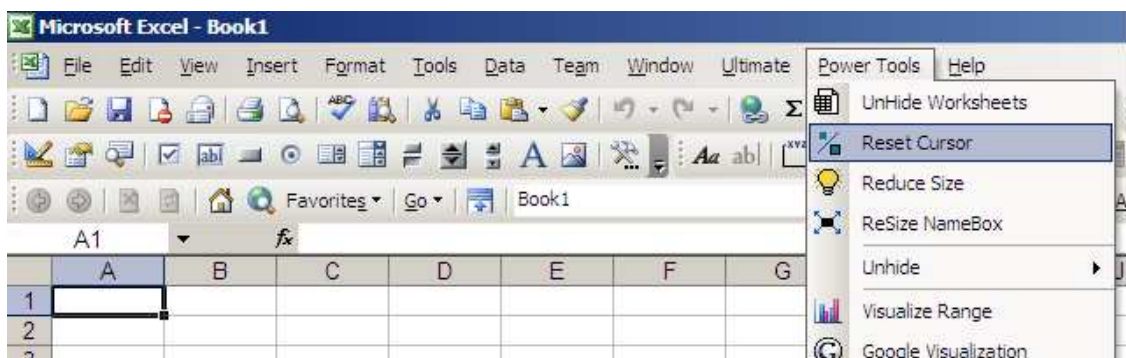
2.1 *Unhide Worksheets*

This function unhides all the hidden worksheets within the active workbook.



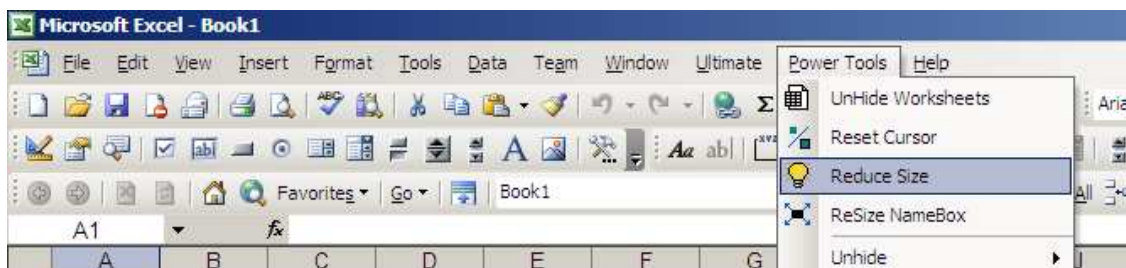
2.2 *Reset Cursor*

This function rests the cursor on each worksheet to cell “A1” and enables back the original worksheet the user was on.



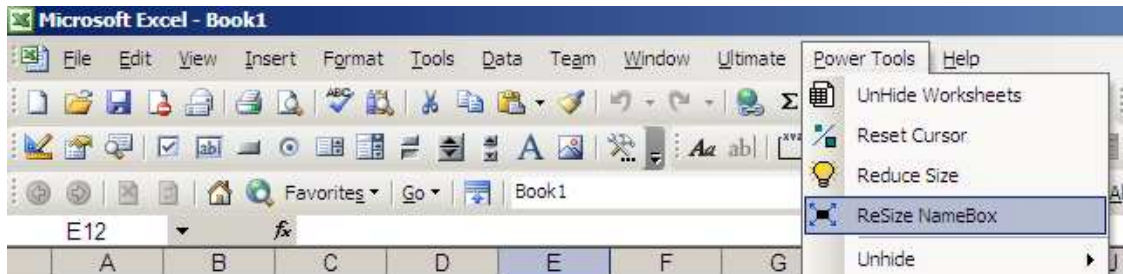
2.3 *Reduce Size*

This function is used to reduce the size of the abnormal workbook using the “UsedRange” functionality. This doesn’t affect the content of workbook, except it tries to reduce the size of workbook but resetting the max index on each worksheet properties.

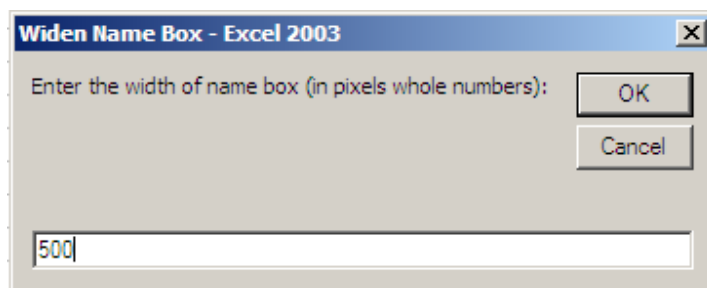


2.4 *Resize Name Box*

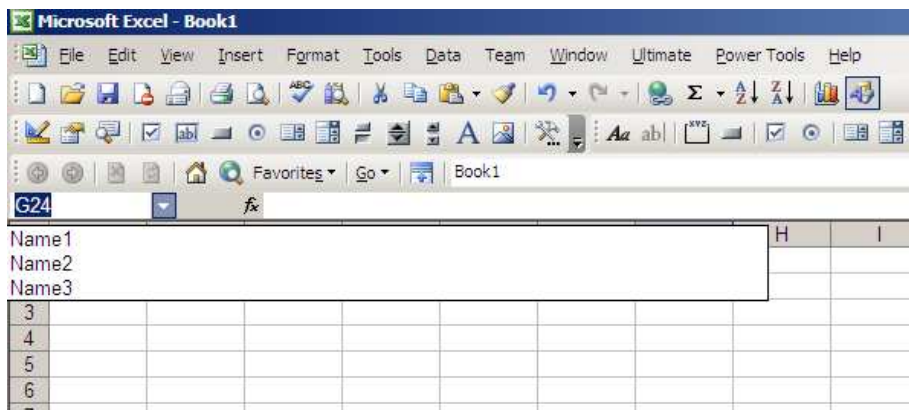
This function resizes the name box on the excel application to the desired size specified in the input box as illustrated in the diagrams below.



Clicking on the function invokes the input box for the size to specify in pixels.



Upon entering the size verify the name box on the excel application interface.



3. Unhide

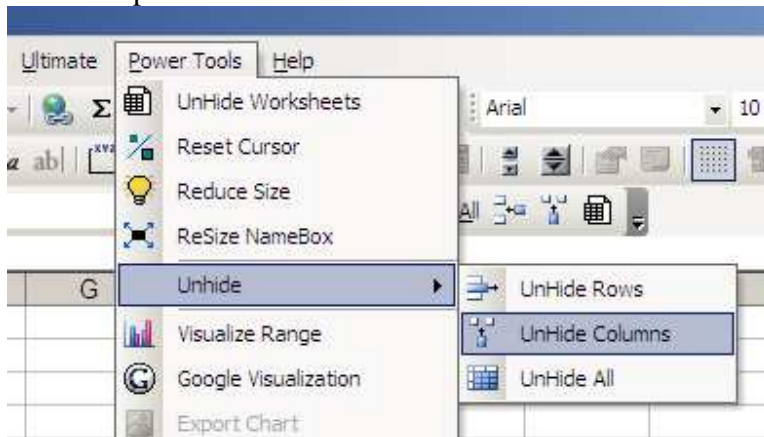
3.1 *Unhide Rows*

This option unhides all the rows within the active sheet.



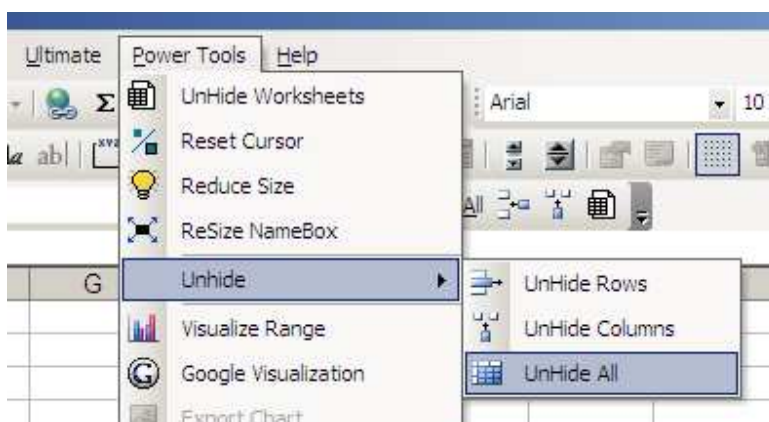
3.2 *Unhide columns*

This option unhides all the columns within the active sheet.



3.3 *Unhide All*

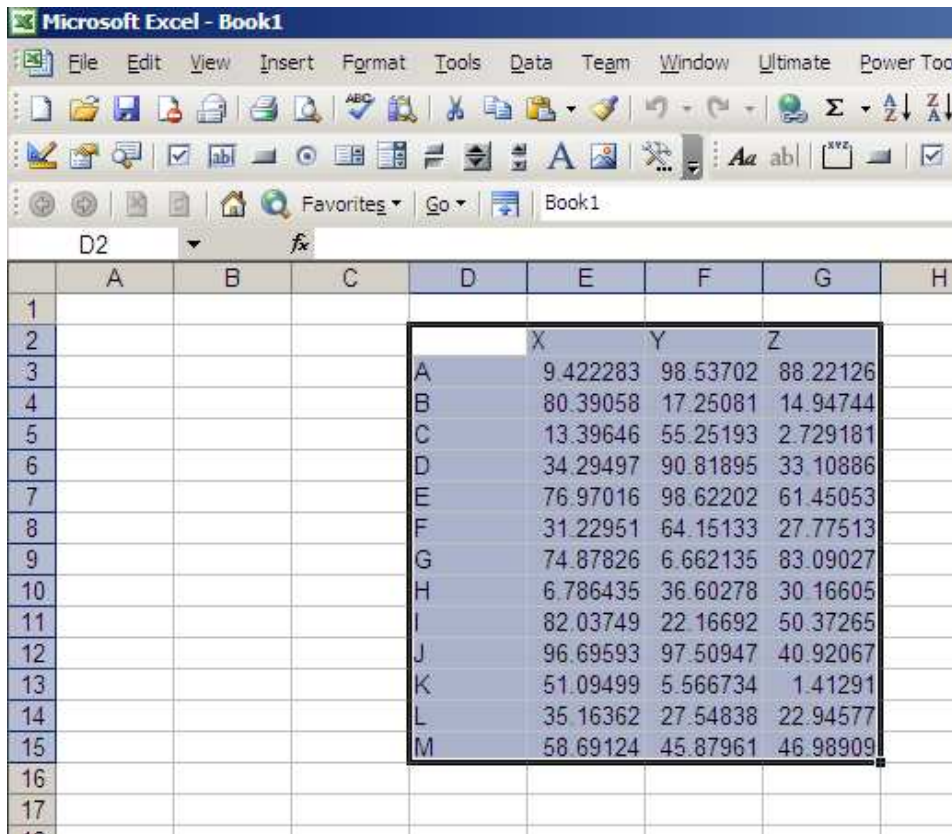
This option unhides all the rows and columns within the active sheet.



4. Visualize Range

This function is used and developed for quick visualization of data in a graphical format. This functionality works in a 2 step process as follows:

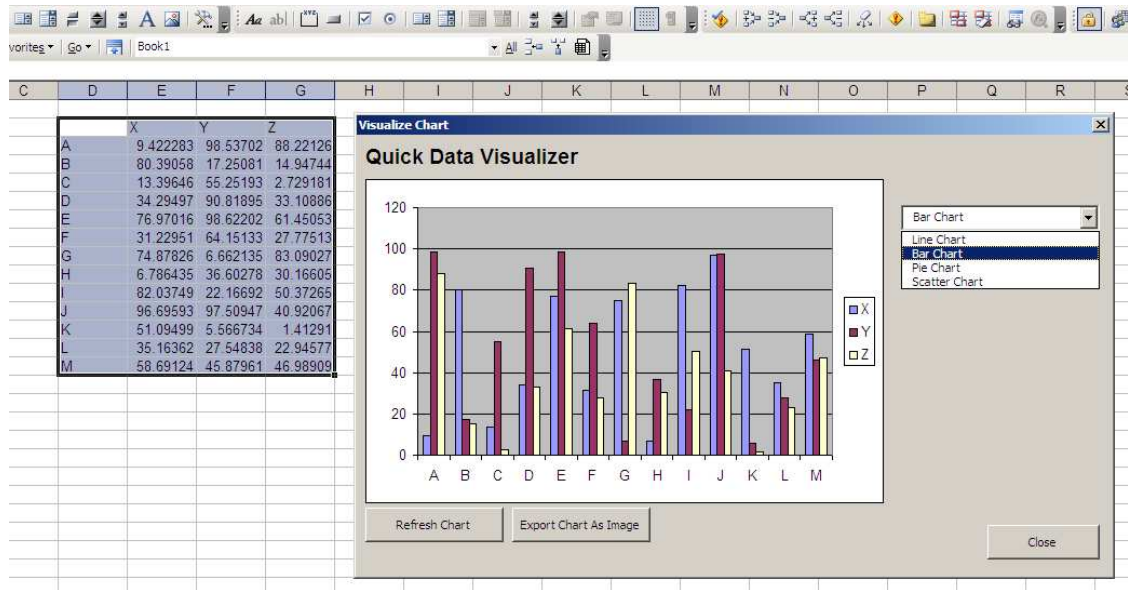
- a. Select the data range as required by the chart type to be generated.



The screenshot shows the Microsoft Excel interface with the 'Visualize Range' option selected in the 'Data' menu. The data range is highlighted in blue, covering cells D3 to M15. The data is organized into columns labeled X, Y, and Z, with rows labeled A through M. The values are numerical, representing a dataset for visualization.

	X	Y	Z
A	9.422283	98.53702	88.22126
B	80.39058	17.25081	14.94744
C	13.39646	55.25193	2.729181
D	34.29497	90.81895	33.10886
E	76.97016	98.62202	61.45053
F	31.22951	64.15133	27.77513
G	74.87826	6.662135	83.09027
H	6.786435	36.60278	30.16605
I	82.03749	22.16692	50.37265
J	96.69593	97.50947	40.92067
K	51.09499	5.566734	1.41291
L	35.16362	27.54838	22.94577
M	58.69124	45.87961	46.98909

- b. Select the “*Visualize Range*” option to create the user form illustrating the data in a charted manner with amendable parameters of the chart type with the option of exporting the chart as an image.



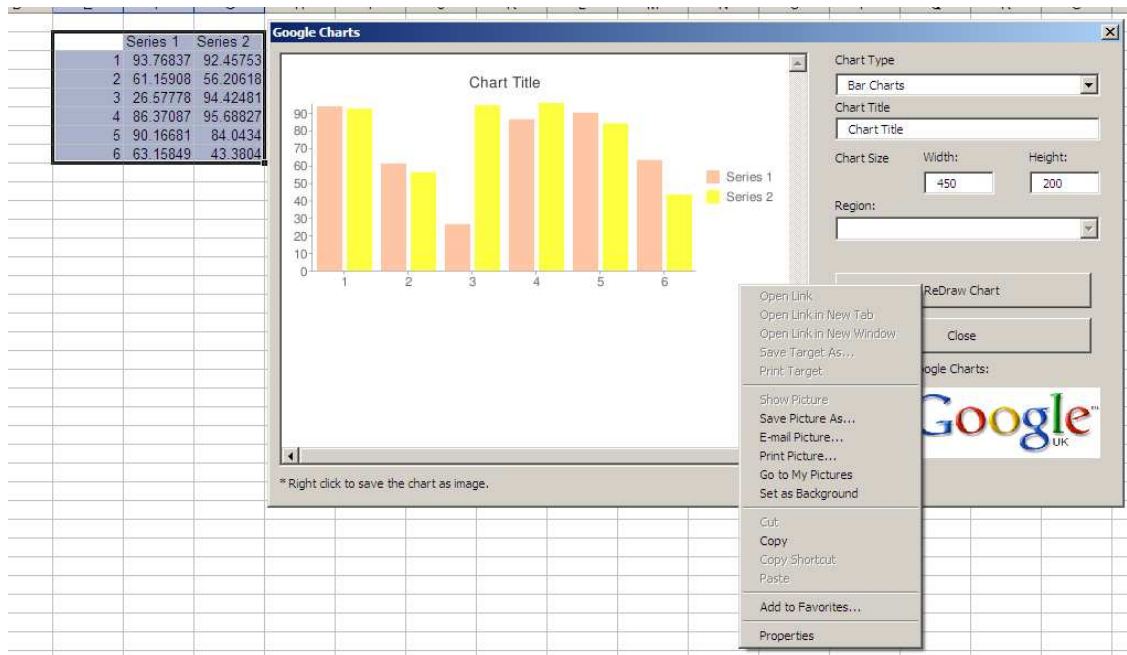
4.1 Google Visualization

This functionality is embedded within this addin to use the Google charts API for generating charts on the excel data on the fly. This function provides 5 types of charts to be generated using the API. This would be illustrated by the following images.

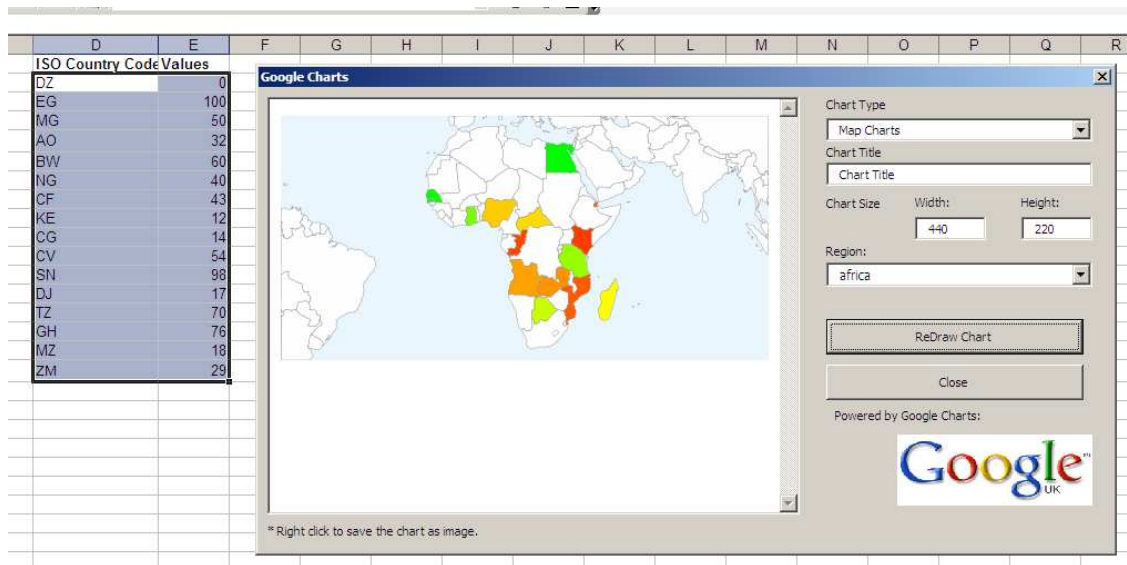
In order to save the images right click on the chart and click on save image to obtain the chart image as illustrated on the user form. [Notice the data layout required to generate the chart image.](#)

(* note this functionality depends on the Google service, henceforth this functionality would only work if the user has internet available on his computer and no restrictions accessing Google links.)

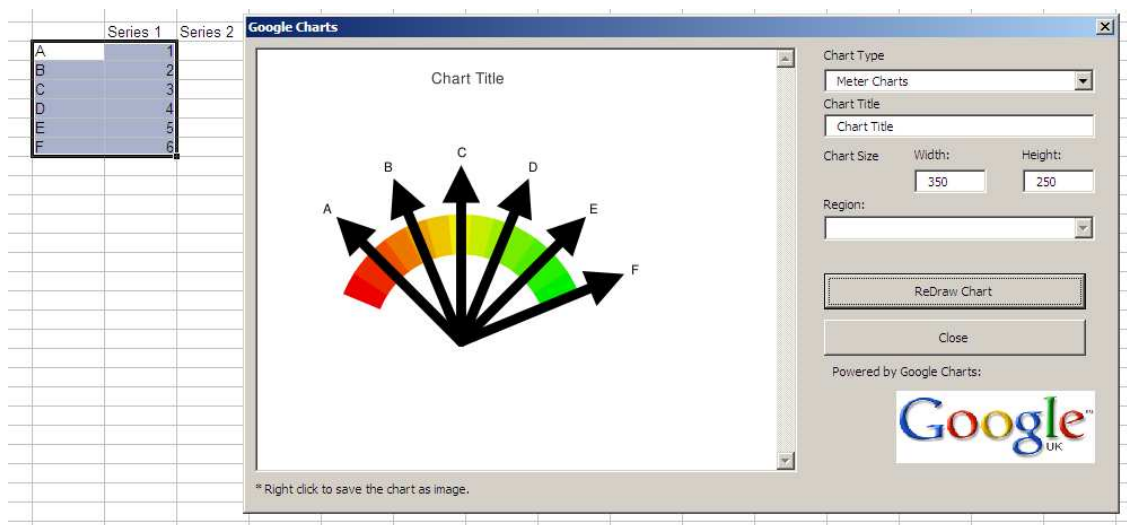
4.1.1 Bar Chart:



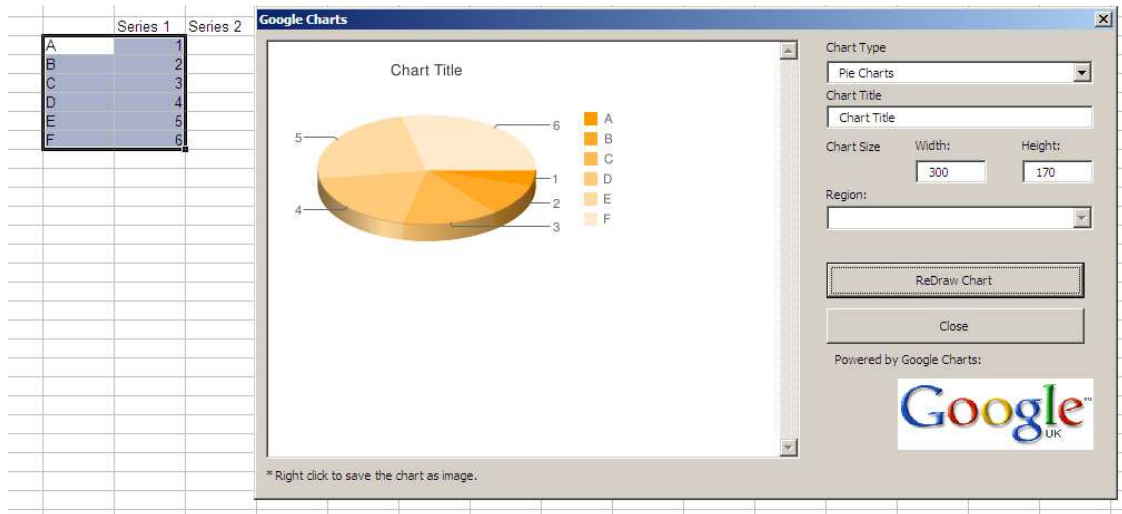
4.1.2 Map chart



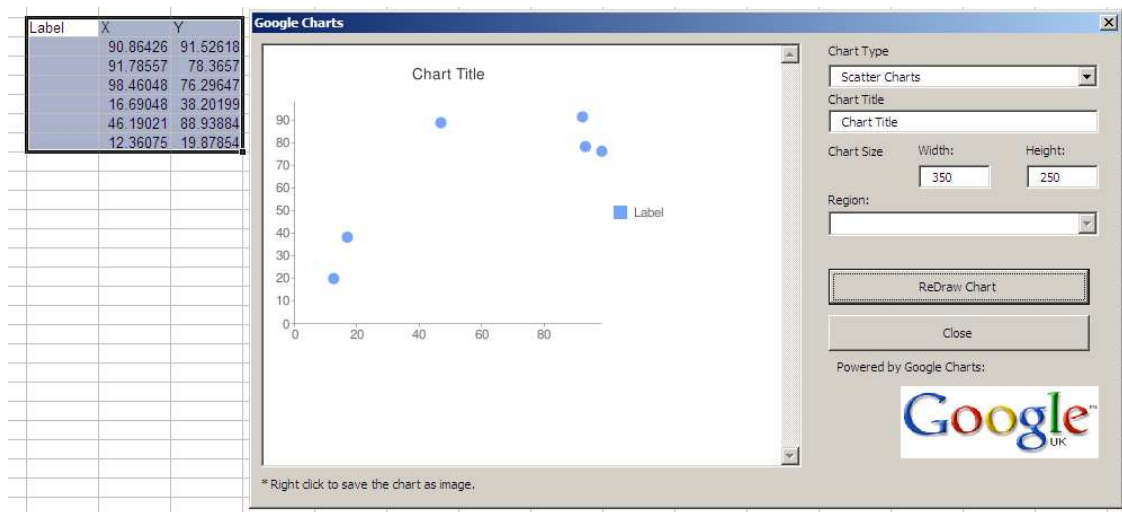
4.1.3 Meter Chart



4.1.4 Pie Chart



4.1.5 Scatter Chart



5. Export Chart

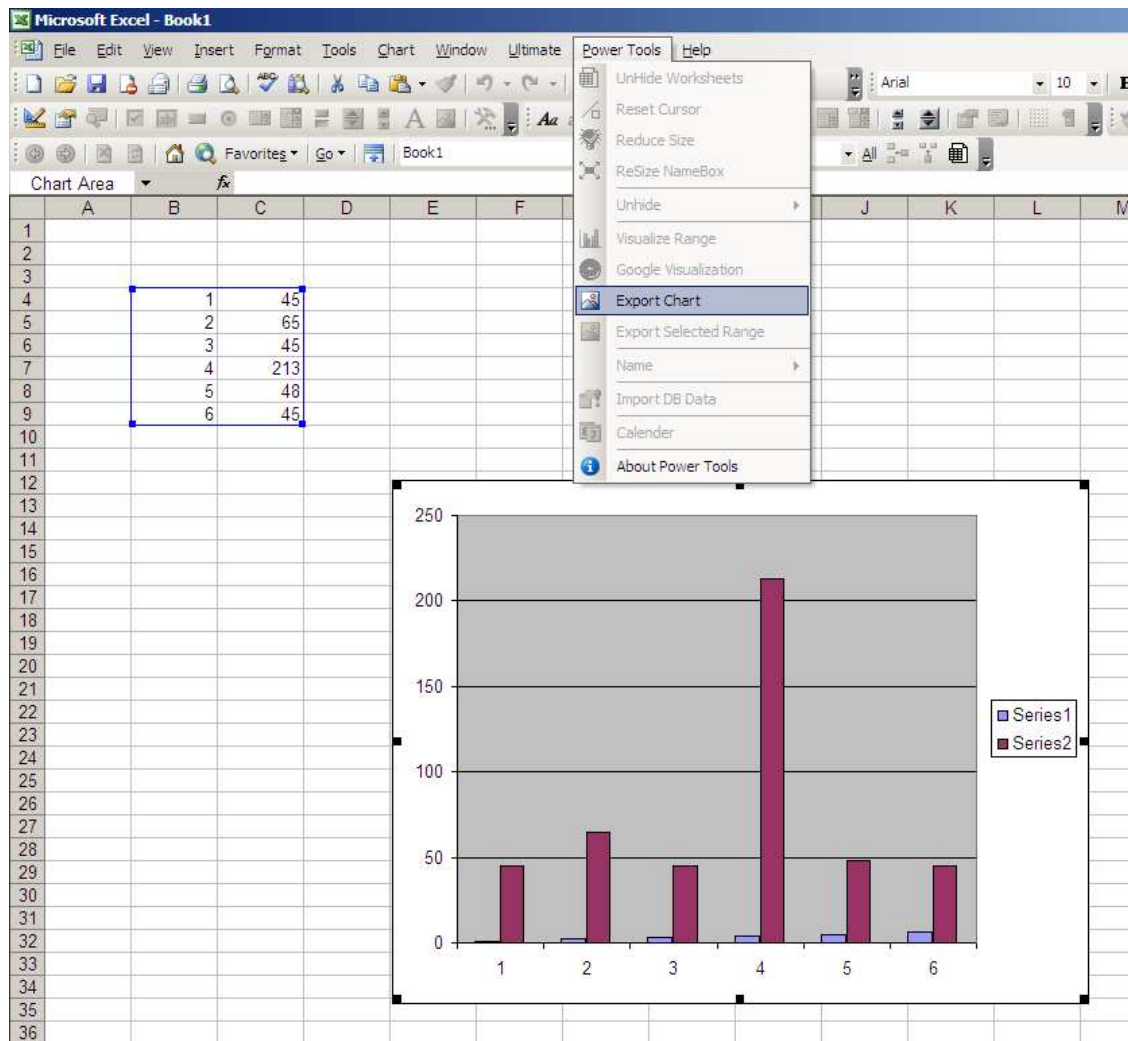
(* this option is only enabled in the chart active mode.)

This option is used to export the currently selected chart as an image file to the location selected by the user.

Currently the image types supported by the addin are as follows:

- Gif Files
- JPG/JPEG Files

Clicking on the option brings up the file save location dialog box and file type and name to choose and create. Click on save button to complete the process.



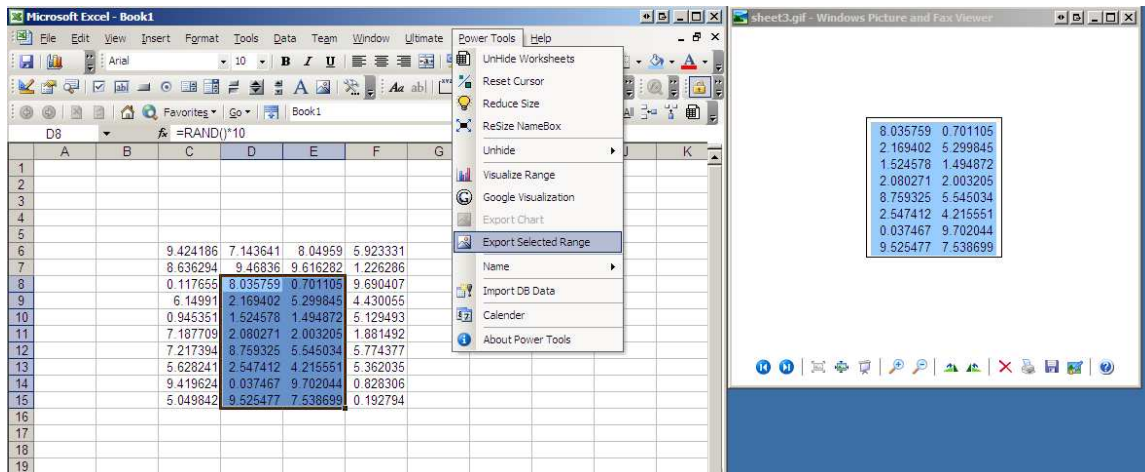
6. Export Selected Range

This function is used to export the selected range as an image. Select the range to be exported as an image, and then click on the option of “*Export Selected Range*”. A

dialog box will confirm your selection and will open up a file save dialog box to specify the location, filename and file type for the image to save.

Currently the image can be saved into the following types as mentioned below:

- Gif Files
- JPG/JPEG Files

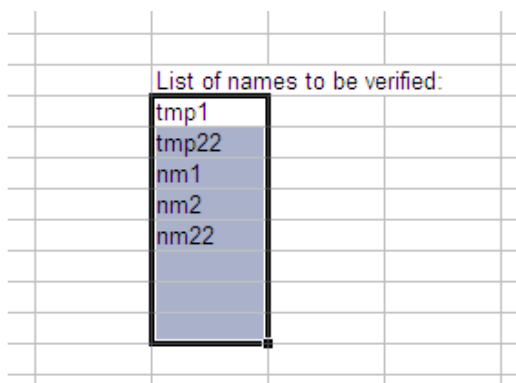


7. Name

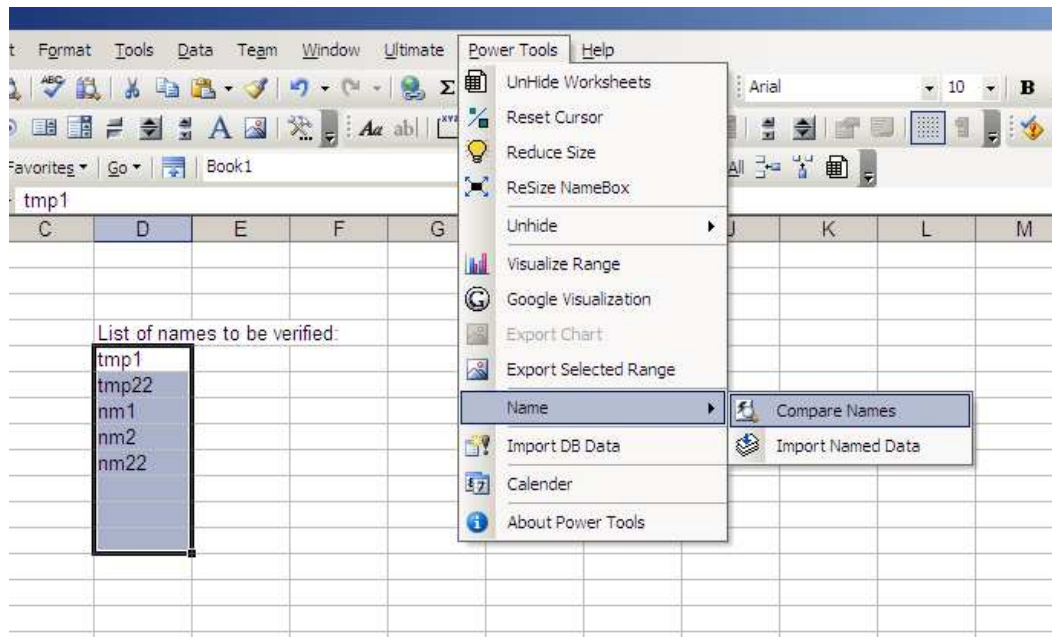
7.1 Compare Names

This functionality is used to compare the named ranges within a workbook to that of a list of names on a worksheet listed as values to check and match their existence within the workbook. In order to use this function follow the below mentioned steps illustrating this utility:

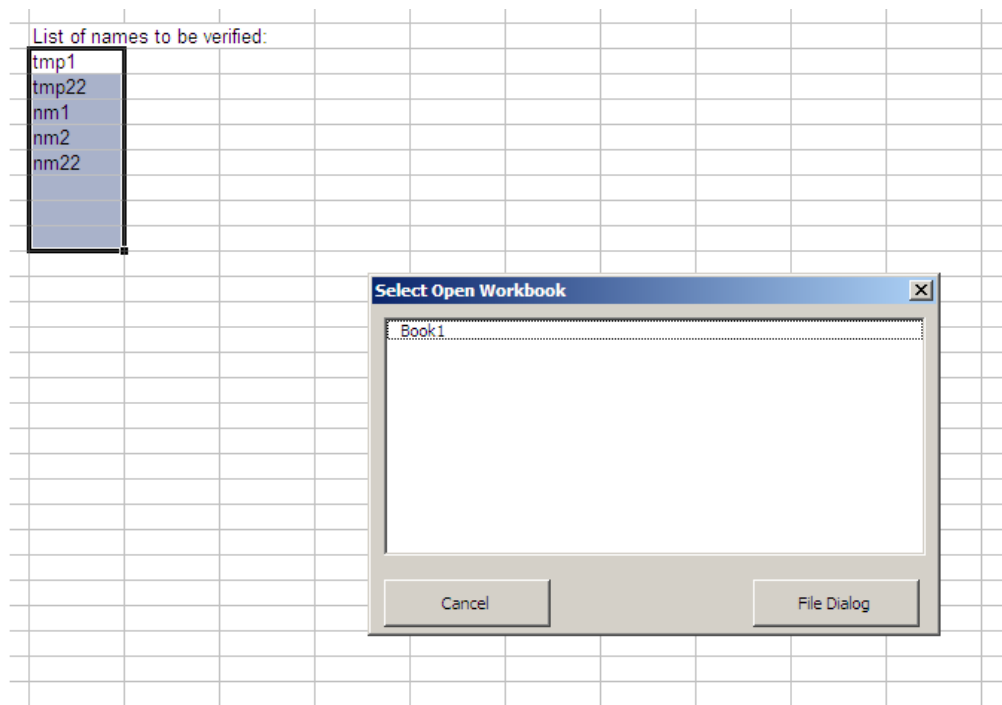
- a. Create a list of names to check against the workbook names.



- b. Click the option of “Compare Names”.



- c. If the workbook that needs comparison is open within the same application domain it would be listed in the dialog box as shown below, and the user needs to double click the name to select the required workbook. Else click on the file Dialog to open the file if it's not open.



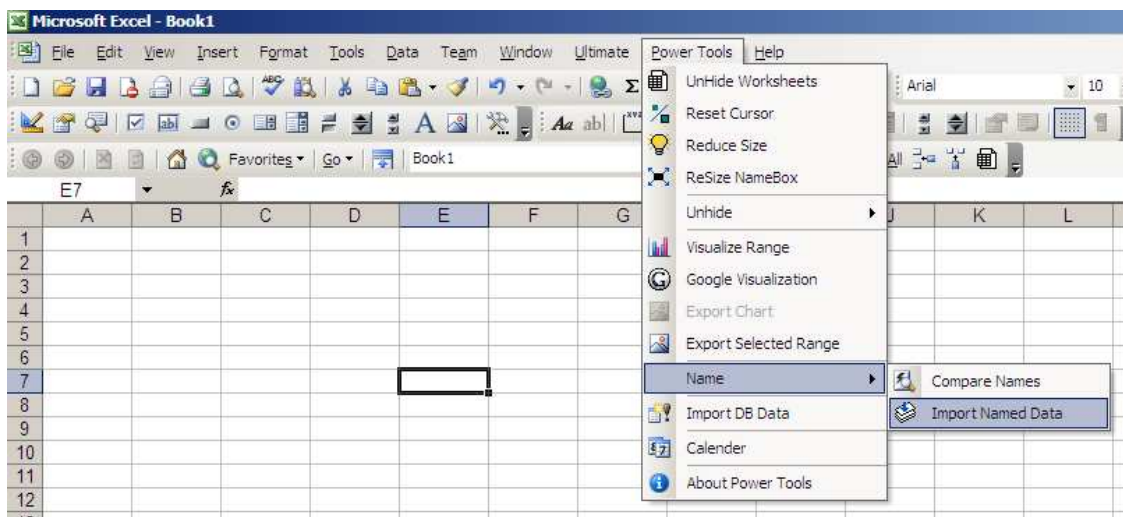
- d. Upon retrieving the required file the function creates a new worksheet within the list of worksheet names "Name Compare *" with the following layout.

	A	B	C
1	Names in selection:	Names in Source Workbook:	Status:
2		amol	
3		ipd	
4	nm1	nm1	Match
5	nm22	nm22	Match
6		nm3	
7		nm6	
8		nm7	
9		nm8	
10		pandey	
11	Names not matched in selection:		
12	tmp1		
13	tmp22		
14	nm2		
15	nm22		
16			

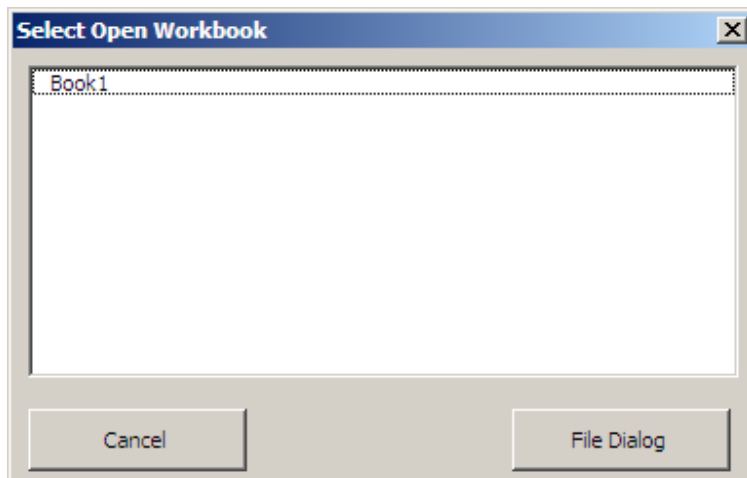
The above worksheet illustrates the compared names between the list and the available names within the workbook. For a match between the both the entries are highlighted within the status column.

7.2 Import Named Data

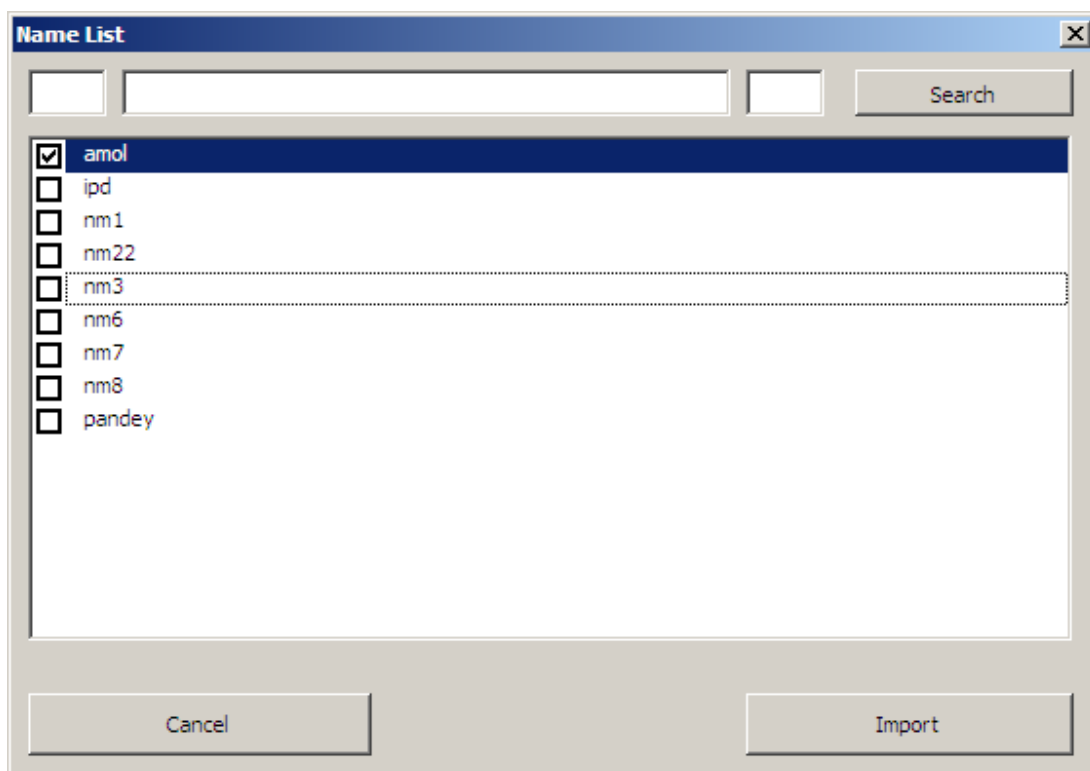
This function is used to import the named range data from the source workbook file to the required active selected range. This option is used as follows:



- Select the option from the menu, bringing up the select workbook list box if the data from the workbook to import is open is listed within the list box else click on the “File Dialog” button to select open the file to import the data from.



- b. Upon opening the file a user form would appear listing all the available names within the work book with the feature of searching within the list.

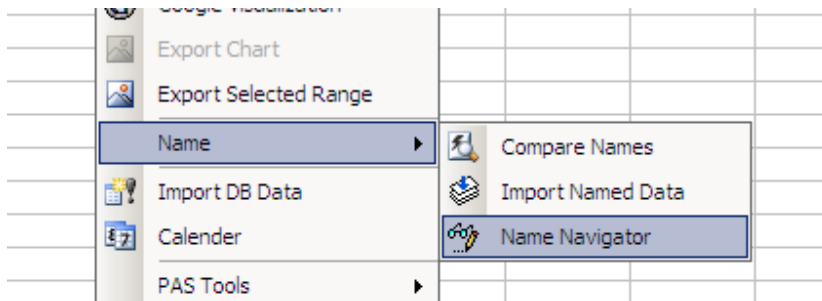


- c. Check the names which as user you would like to import and clicking the same would follow the same as required. The data for multiple names is imported with a header title identifying the corresponding the name in bold followed with the corresponding data.

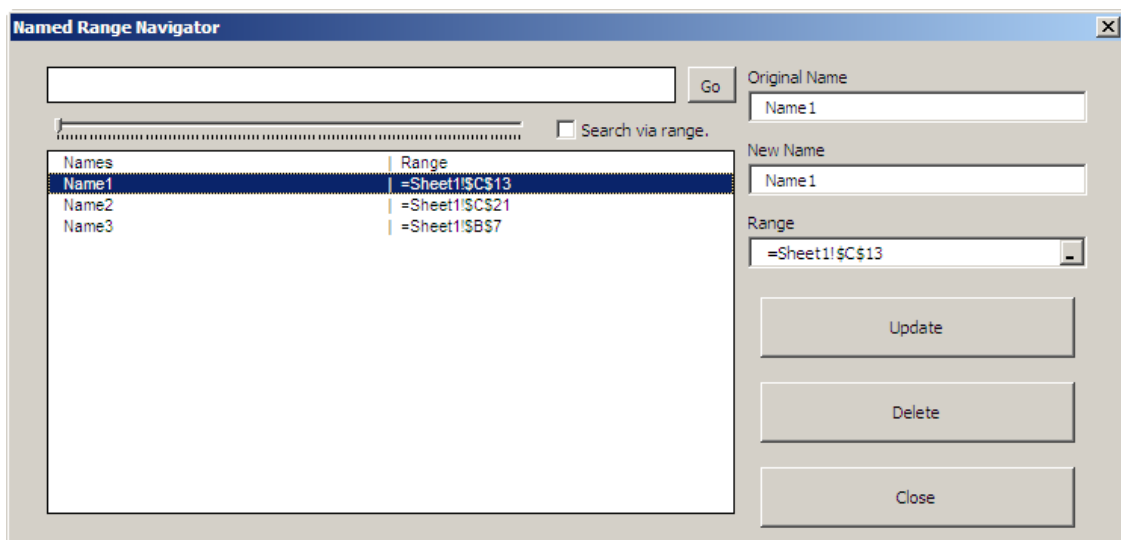
		Name: amol			
		amol	amol	amol	amol
		amol	amol	amol	amol
		amol	amol	amol	amol
		amol	amol	amol	amol
		amol	amol	amol	amol
		amol	amol	amol	amol
		amol	amol	amol	amol
		amol	amol	amol	amol
		amol	amol	amol	amol
		amol	amol	amol	amol
		amol	amol	amol	amol
		amol	amol	amol	amol
		Name: nm22			
		xyz			
		Name: nm3			
		nm3			

7.3 *Named Range Navigator*

This functionality is used for navigating across the workbook named ranges. This features involved updating of named ranges in the user friendly manner along with the option of updating the name of the named range.



Main console:

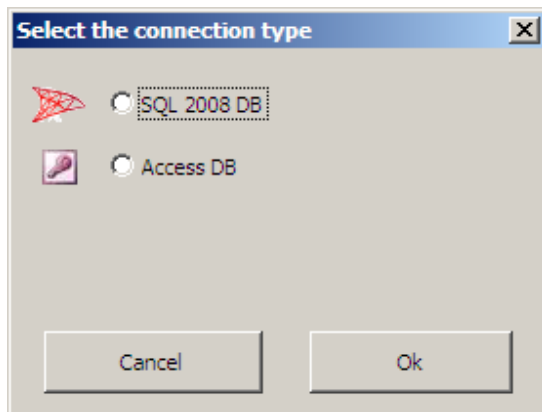


Note: This feature does not allow you to add ranges. It's primarily used to update the pre existing named ranges.

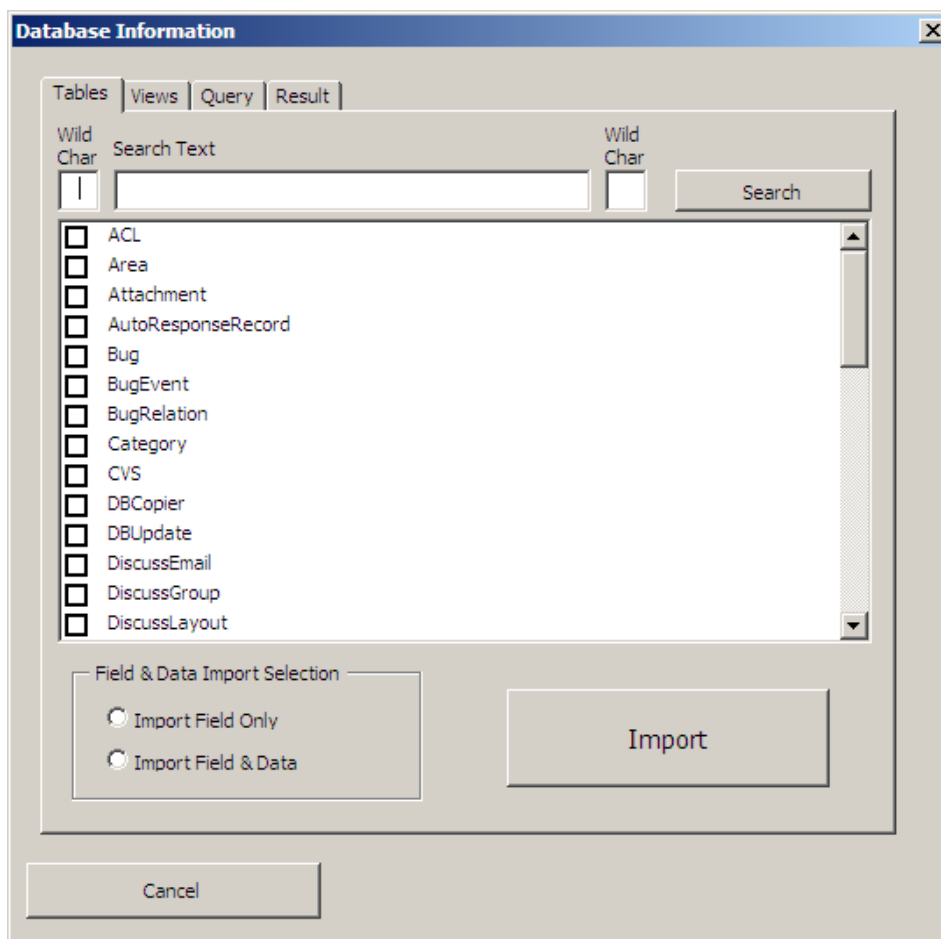
8. Import DB Data (Under Development)

This functionality is currently under implementation to refine the intellesense, but some of the key features are mentioned below with images.

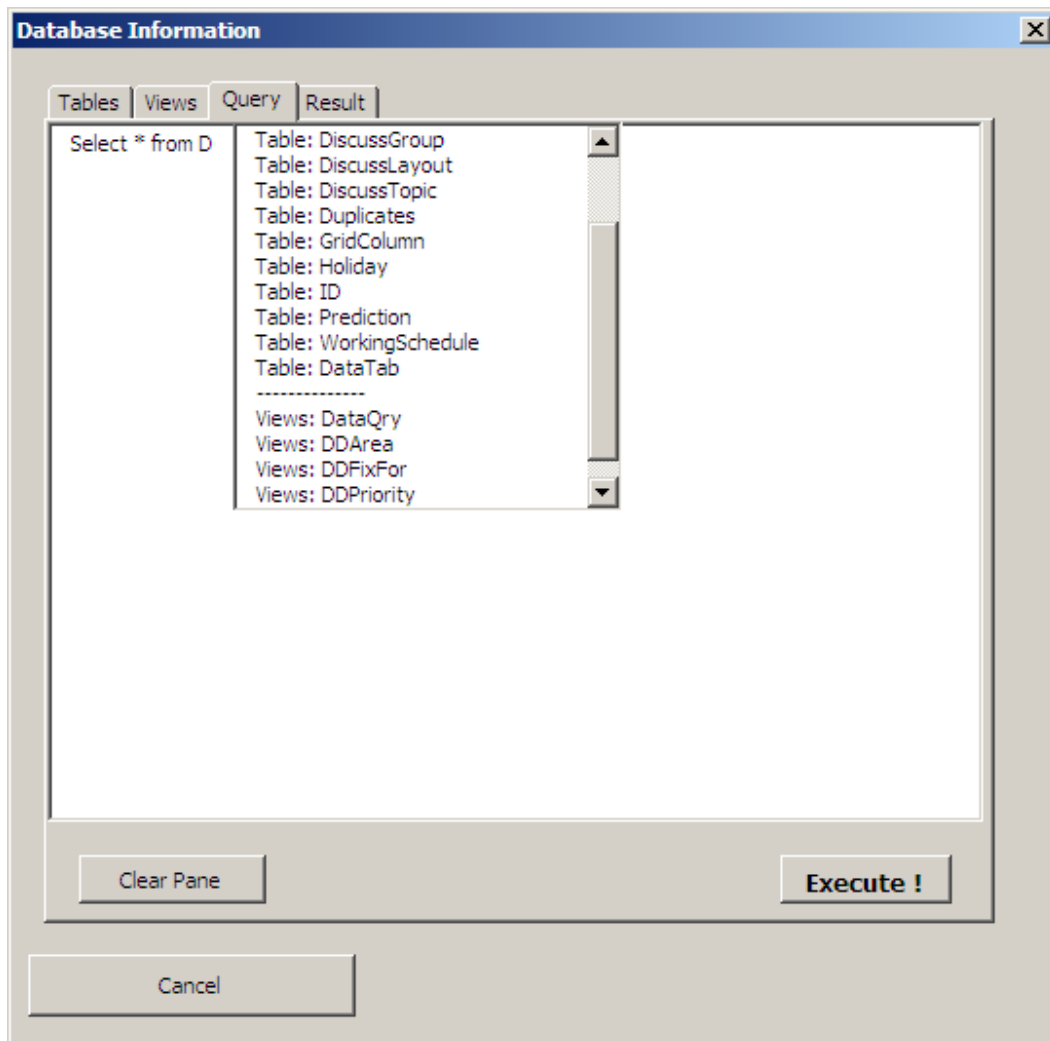
-Connection to SQL server 2008/Access 2003



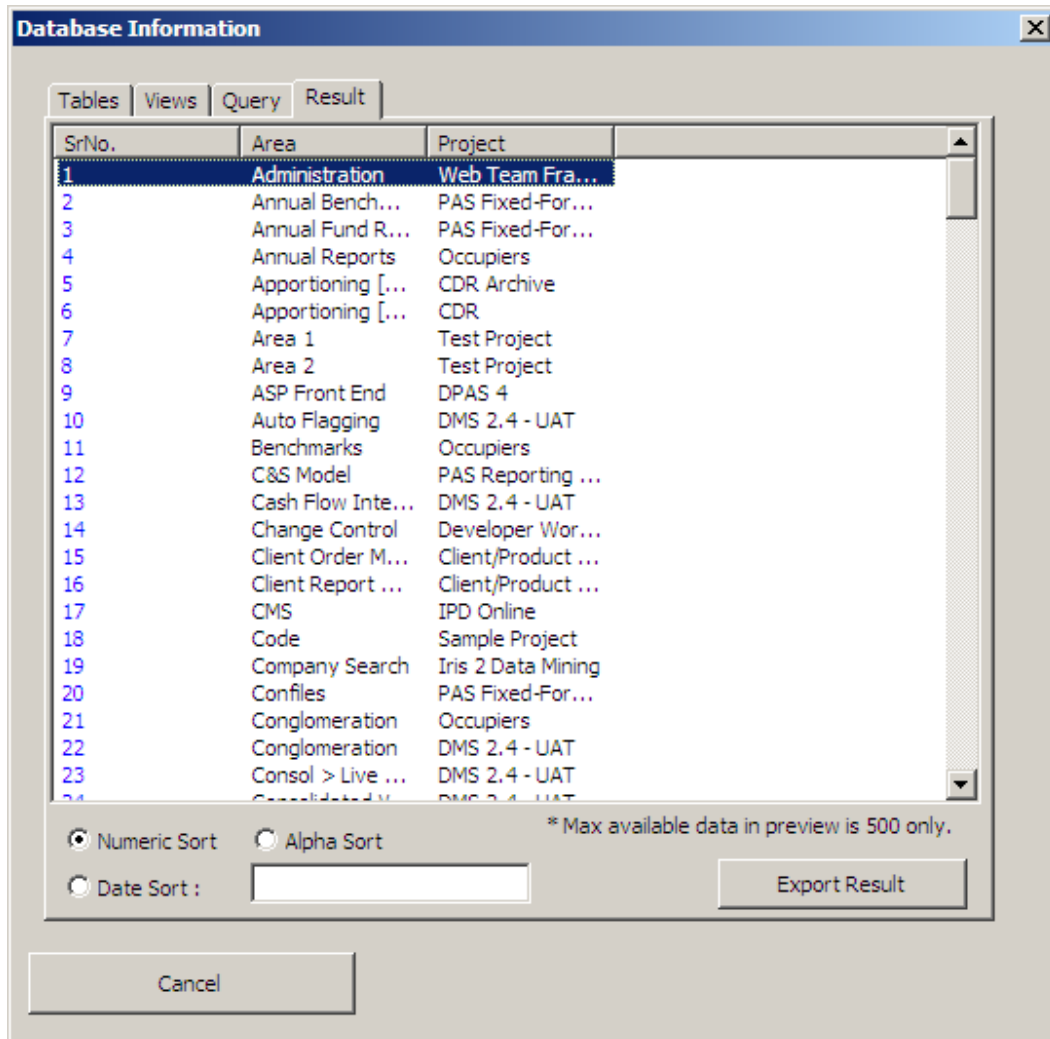
- Searchable listing of Tables and Views (Currently Schema not included for SQL 2008)



- Import of the fieldnames with value type or complete data import option.
 -SQL query panel with intellesense triggered on "*Ctrl+Space*" on searchable term.



-Interim query result view with numeric/alphabetic/date sort option and import option to the selected range.



- Export Data functionality

Area	Project
Administration	Web Team Framework
Annual Benchmark	PAS Fixed-Format Reports
Annual Fund Report	PAS Fixed-Format Reports
Annual Reports	Occupiers
Apportioning [Old F	CDR Archive
Apportioning [Old F	CDR
Area 1	Test Project
Area 2	Test Project
ASP Front End	DPAS 4
Auto Flagging	DMS 2.4 - UAT
Benchmarks	Occupiers
C&S Model	PAS Reporting Project
Cash Flow Interpolat	DMS 2.4 - UAT
Change Control	Developer Work Manager
Client Order Manag	Client/Product Ordering System
Client Report Defini	Client/Product Ordering System
CMS	IPD Online
Code	Sample Project
Company Search	Iris 2 Data Mining
Confiles	PAS Fixed-Format Reports
Conglomeration	Occupiers
Conglomeration	DMS 2.4 - UAT
Consol > Live Parti	DMS 2.4 - UAT
Consolidated View	DMS 2.4 - UAT
Consolidation	CDR Archive
Consolidation	DMS 2.4 - UAT
Consolidation	CDR
Culture Label Edito	Business Definition Editors
Current Cash Flow	DMS 2.4 - UAT
Data	Iris 2 Data Mining
Data Access	Web Team Framework
Data Dictionary	PAS Fixed-Format Reports
Data Generation S	Iris 2

Database Information

Tables Views Query Result

SrNo.	Area	Project
1	Administration	Web Team Fra...
2	Annual Bench...	PAS Fixed-For...
3	Annual Fund R...	PAS Fixed-For...
4	Annual Reports	Occupiers
5	Apportioning [...]	CDR Archive
6	Apportioning [...]	CDR
7	Area 1	Test Project
8	Area 2	Test Project
9	ASP Front End	DPAS 4
10	Auto Flagging	DMS 2.4 - UAT
11	Benchmarks	Occupiers
12	C&S Model	PAS Reporting ...
13	Cash Flow Inte...	DMS 2.4 - UAT
14	Change Control	Developer Wor...
15	Client Order M...	Client/Product ...
16	Client Report ...	Client/Product ...
17	CMS	IPD Online
18	Code	Sample Project
19	Company Search	Iris 2 Data Mining
20	Confiles	PAS Fixed-For...
21	Conglomeration	Occupiers
22	Conglomeration	DMS 2.4 - UAT
23	Consol > Live ...	DMS 2.4 - UAT
24	Consolidated U...	DMS 2.4 - UAT

☒ Numeric Sort
☐ Alpha Sort
☐ Date Sort :

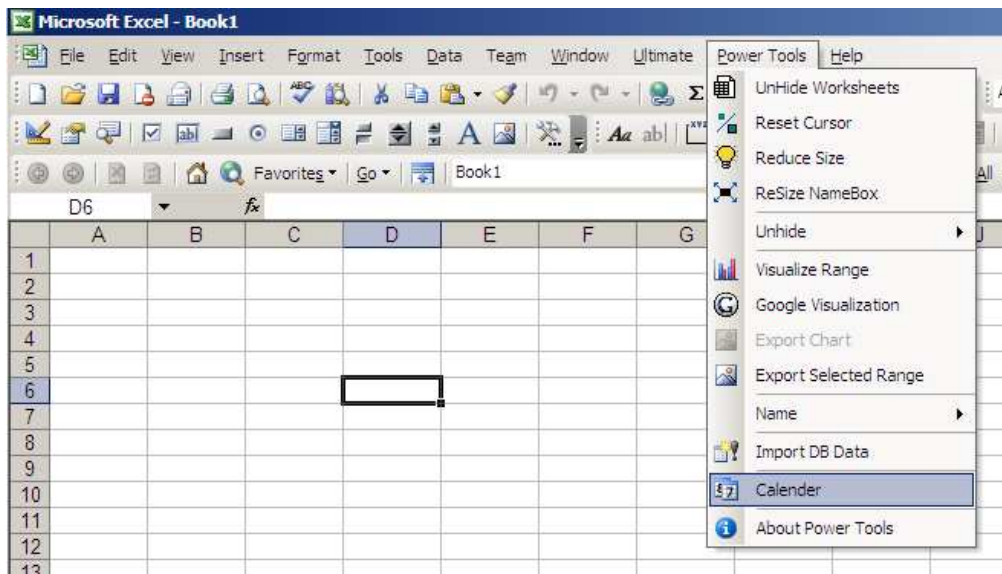
* Max available data in preview is 500 only.

Export Result

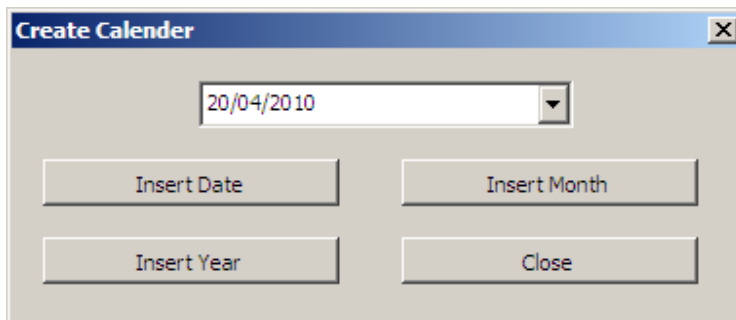
Cancel

9. Calendar

This function is used to create custom monthly/yearly calendar as required by the user. The function is presented with a custom user form for the user to select the period for which the calendar has to be generated.

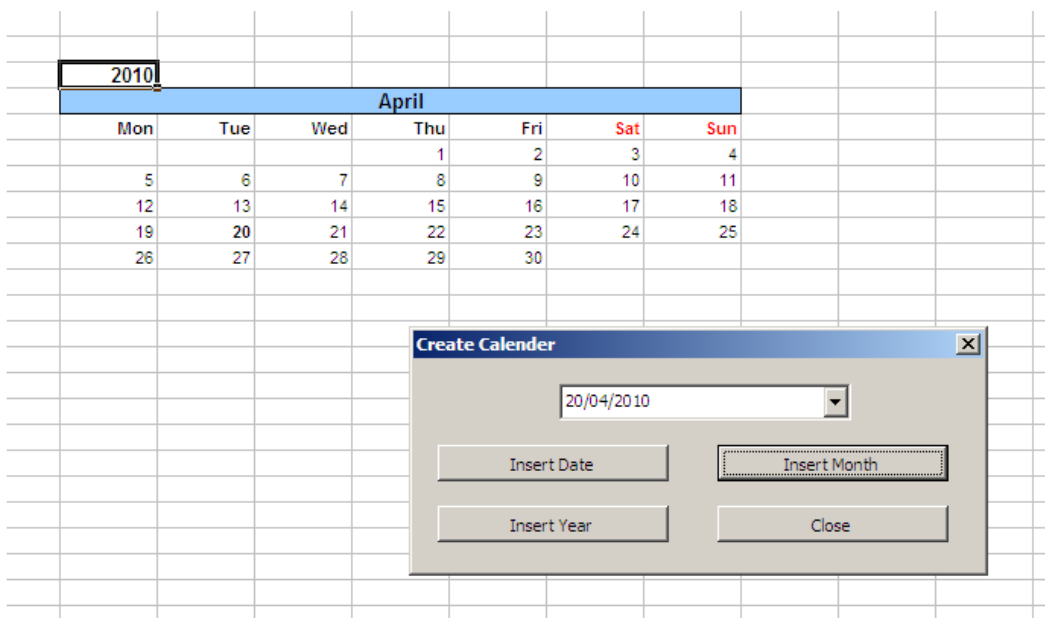


Clicking on the option brings up the following form:



The 'Create Calendar' dialog box features a text input field at the top containing '20/04/2010' with a dropdown arrow on its right. Below this field are four buttons arranged in a 2x2 grid: 'Insert Date' (top-left), 'Insert Month' (top-right), 'Insert Year' (bottom-left), and 'Close' (bottom-right).

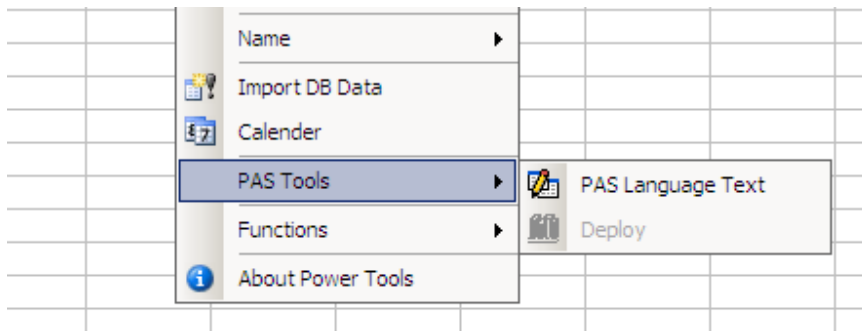
The form presents user the choice of inserting the current date/month or year for the displayed date period in the selected range.



The image shows a calendar grid for the year 2010, with the month of April highlighted in blue. The grid displays days of the week (Mon to Sun) and dates (1 to 30). Overlaid on the bottom right of the calendar is the 'Create Calendar' dialog box, which is identical to the one in the previous image, showing the date '20/04/2010' and the same four buttons: 'Insert Date', 'Insert Month', 'Insert Year', and 'Close'.

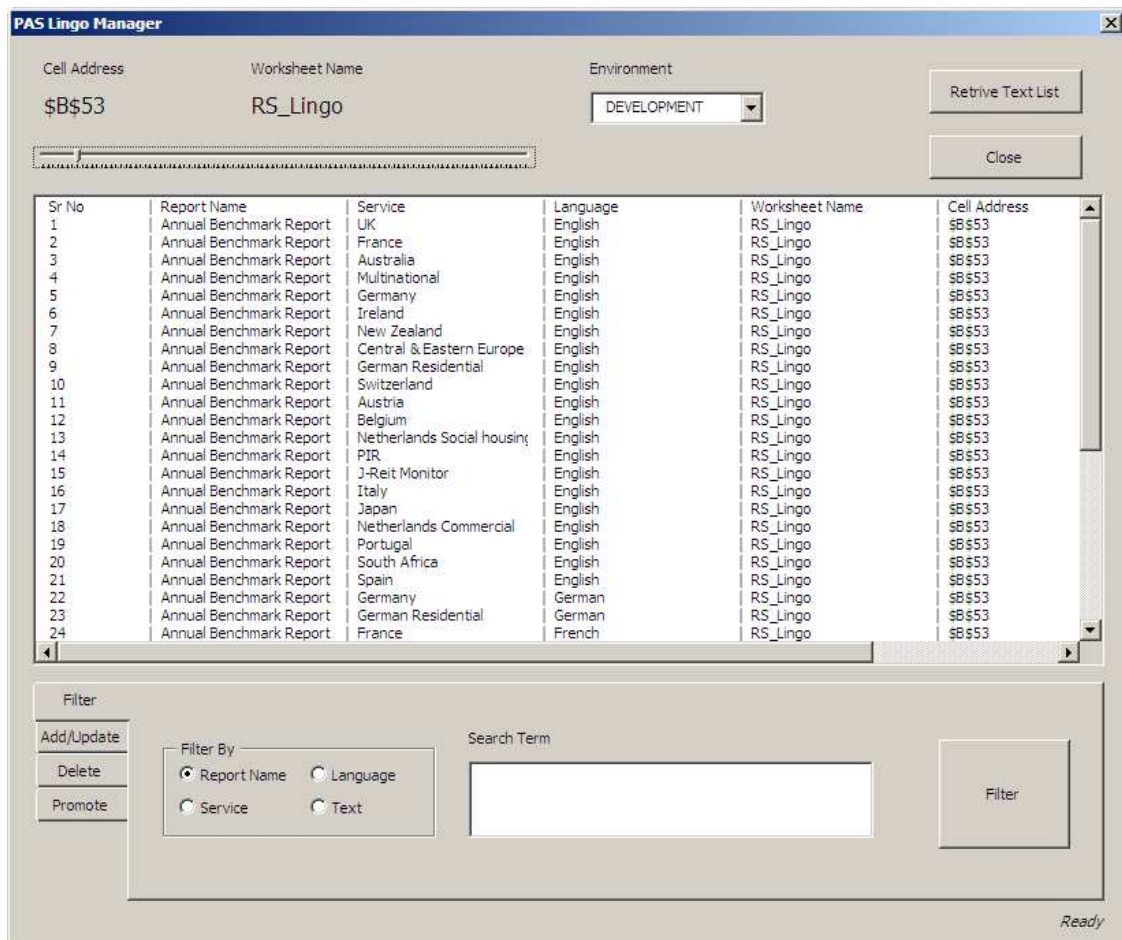
10. PAS Lingo Text Manager (Under Development)

This option is available to the user to modify the lingo database to modify the related text and workbook range mapping in the database, with options to Add/Delete and Update the mapping.



The interface of the tool dynamically tracks the current cell location address and the worksheet name allowing the user to interactively change the same. It also involves the environment variable for the DEV/UAT/PROD for the changes to reflect. Additionally this interface allows user to change the column width for the data in list view, via slider control. Then the following the pages the operations are available simple enough to operate on.

This tool also features the utility to filter upon the relevant section and values of the list.



11. Custom Functions

This functionality extends in to the following categories:

11.1 Cell Comment (Ctrl+Shift+J)

This function (key shortcut) allows user to automated comment the active cell with the comment filled in with the formula within the cell.

This function can be reverted i.e. by pressing (Ctrl + Z) the undo operation can be performed.

[illegible]

11.2 Error Check (Ctrl + J)

This function allows user (with shortcut) to implement the error check formula over a range for the generic formula within the selected range.

There is no restriction on the formula to be unique across the range and irrespective of the formula the error check will cast the underlying formula to the format.

If (ISERROR(<<Formula>>), “-“, <<Formula>>)

This function can be reverted i.e. by pressing (Ctrl + Z) the undo operation can be performed.

11.3 Range Formula Map (Ctrl+Shift+M)

This functionality is useful to audit the block of data range and to determine the underlying formula consistency.

This functionality determines where the formula has been extended vertically, horizontally, both and array.

This function also takes care not to affect the underlying formatting of the worksheet except altering the range pattern.

	0.436549	0.961862	0.879409	0.123193	0.728345		
	0.076526	0.485601	0.495799	0.686209	0.354306		
	0.202857	0.323902	0.964181	0.798621	0.943099		
	0.761224	0.508597	0.058766	0.599742	0.026352		
	0.258311	0.677572	0.21418	0.032854	0.332202		
	0.542366	0.419321	0.159885	0.056973	0.106038		
	0.206134	0.643291	gdfg	0.186001	0.783708		
	0.836918	gdfg	0.099181	0.137175	0.01221		
	0.146387	0.498241	0.252416	0.506242	0.677614		
	0.792768	0.402689	0.605975	0.915298	0.444918		
			0.202857		0.376862		
			0.761224		0.196511	0.619208	0.2116
			0.258311		0.979271		0.157492
	1.081708	0.542366		sdf			0.612448
		0.206134		0.508266			0.371607
		0.836918		0.082259			0.364348
		0.146387		0.10916			0.64035
		0.792768					423
		#N/A					0.919656
							0.66548

Vertical: The formula has been dragged vertically

Horizontal: the formula has been dragged horizontally

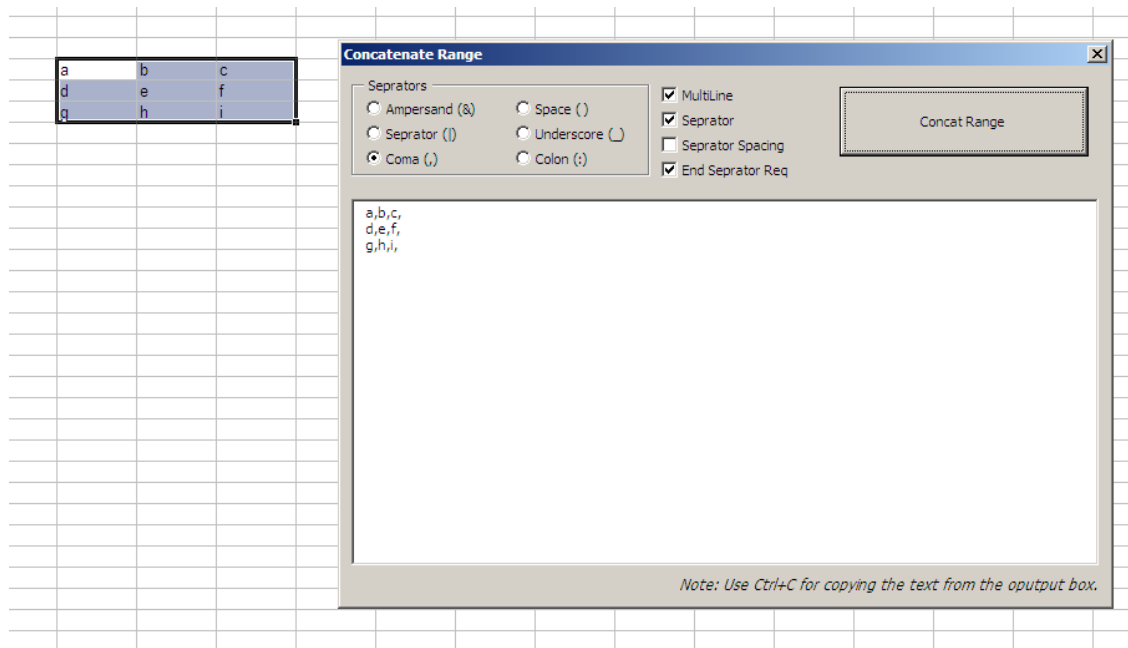
Crosshatch: the formula can be derived both via vertical/horizontal drag.

Dotted: The underlying formula is a part of an array formula.

This function can be reverted i.e. by pressing (Ctrl + Z) the undo operation can be performed.

11.4 Concatenate Range


This functionality is useful to quickly concatenate the selected cell contents via the available option of separators with the following options available to match the requirement.



11.5 Language Translation (Google Service)

This is a custom function provided by the addin empowering the user to benefit from the online Google translation service utility on the worksheet in the form of user defined functions.

Formula: Gtranslate(<<Custom Text>> , <<Req Lang Code>>)

Text	This is IPD in london.	
Required Lang Code		
Gtranslate	这是知识产权署在伦敦。	zh-CN
	Dit is IPD in Londen.	nl
	यह लंदन में IPD है.	hi
	Dies ist in London IPD.	de
	これは、ロンドンでIPDです	ja
		

11.6 Custom Table Sort

This custom function is designed to sort the provided input table (using the underlying Quick sort algorithm), based on the column number provided, direction of sort and the keep the corresponding rows intact.

This is an array formula. (i.e. enter it on a range using Ctrl+Shift+Enter)

Formula: Qsort(<<I/P Range>>, <<Column Num to sort on>>, <<(Asc)True/(Desc)False>>)

I/P			Answer (Sort on column 1)		
45	1		12	2	
12	2		45	1	
56	3		56	3	
#DIV/0!	4		78	@	
df	5		213	9	
dfg	6		Error 2007	4	
vdf	g		df	5	
78	@		dfg	6	
213	9		vdf	g	

The added benefit to this formula is it takes care of the underlying incorrect values on the sort column.

12. About Power Tools

This option displays the necessary information about the addin and its relevant details to the user.



13. Load restriction

This tool also offers a great feature, which disables the add-in to load in the excel environment for certain set of programs if found running.

Ex: To disable the loading of add-in while CRG is running and internal key is available to set in the external text file

Named: Excel 2003 IPD Tools Config.txt

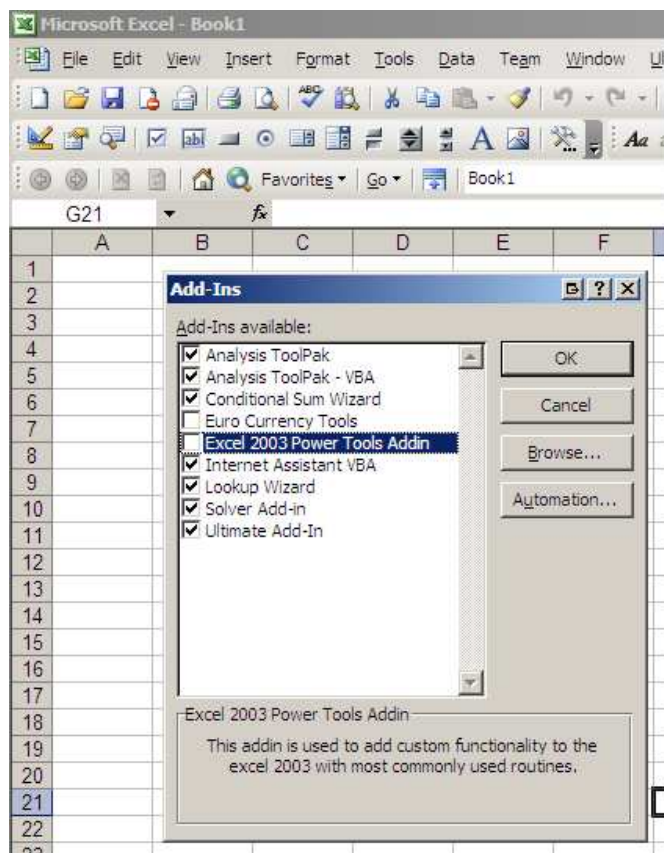
[ProcessName]

CRGMAIN.EXE / Word.Exe / OULOOK.EXE

14. Un-Install

In case if you would want to uninstall the add-in, following steps need to be taken in order to uninstall the add-in successfully.

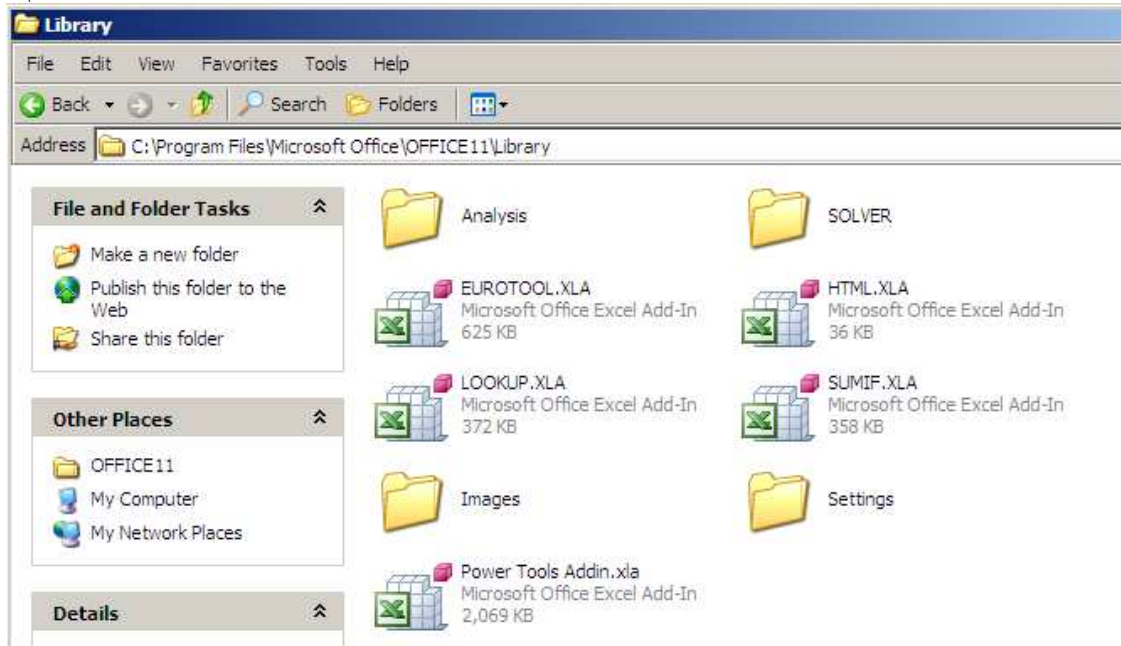
Open the *Tools -> Add-Ins..* menu and uncheck the listed add-in “*Excel 2003 Power Tools Addin*”. This will unload the add-in from the excel environment.



Then finally navigate your way to the native excel application directory and under the library folder delete the following files and folders:

- Power Tools Addin.xla
- \Images\Google_Icon.jpeg
- \Images\Mask Google_Icon.jpeg
- \Settings\Excel 2003 IPD Tools Config.txt

* \ indicates relative folder structure.



And finally the addin is removed from your computer.

(*Note: This addin is entirely self regulated and works within its own domain and doesn't create any registry entries, or any other files except mentioned above.)