All Sheets are considered to have Header

This Excel Project is a Simple Tool using Excel VBA to Filter and Compare DATA.

Why Use this Tool?

This tool is useful when you work in a company and the machine only has access to the company system and the Microsoft Office. Sometimes we stumble trying to do some simple things with the DATA and we only have Excel to help us, but what we need is a little more complicated than the usual, but still simple enough.

There are 3 Basic Sheets:
1. Menu
2. Input
3. Output

To understand how they work, it's better to look into what the project can do.

Example

A Company needs to change many programs to accept the new changes in the system, but each program can call other subprograms and sometimes it's necessary to change those subprograms too. Programs can also have subprograms in common.

Every program has a list of subprograms used. To keep record of changes, there is a list of subprograms already changed and working, there is also another list with subprograms with new changes being evaluated and finally a list with subprograms of a program your team is working on.
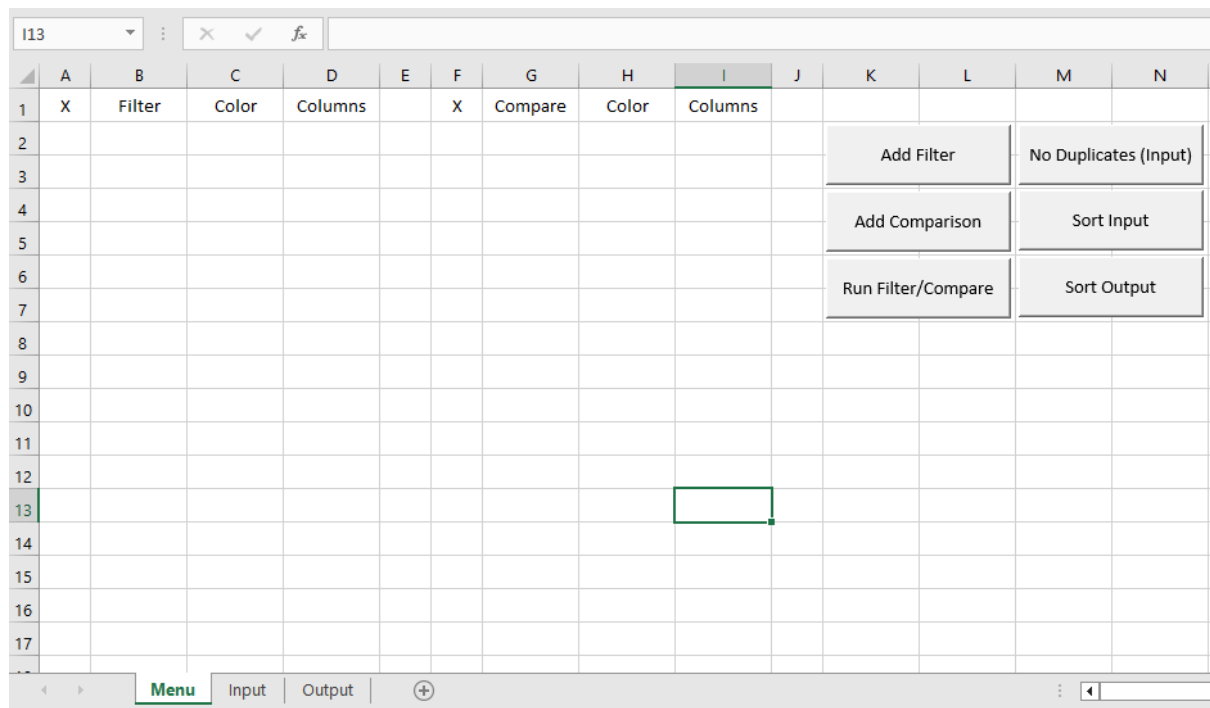
Using the tool, you copy the list of subprograms of a program your team is working on to the Input Sheet. To filter that you copy the list of subprograms already changed and working to a new Filter Sheet, in another new filter sheet you copy the list with subprograms with new changes being evaluated. Finally you can add a new Comparison Sheet with a list of who of your team is working with what subprogram.

Running the tool, Output Sheet shows what subprograms your team needs to focus on and who of your team is working with what subprogram.

This is just an example, you can find new uses for this tool.

Menu

In the Menu Sheet, you can:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	X	Filter	Color	Columns		X	Compare	Color	Columns					

Add Filter   No Duplicates (Input)

Add Comparison   Sort Input

Run Filter/Compare   Sort Output

Menu | Input | Output

● Add Filter Sheets

You can choose the number of columns to be compared with the Input Sheet and choose a color that will fill the Input Cells when equal, the rows that were NOT a match will be copied to the Output Sheet.

The difference between Filter and Comparison is that Filter Paints Input and the rest goes to Output (Rows not Painted), while Comparison just Paints Output.

In the Menu the lower the Row of the Filter the higher the priority of the Filter.

Filter and Comparison Sheets are not modified by the Buttons, only Input and Output Sheets.

Example Filter 1, Starting

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	X	Filter	Color	Columns		X	Compare	Color	Columns					
2												Add Filter		No Duplicates (Input)
3														
4												Add Comparison		Sort Input
5														
6												Run Filter/Compare		Sort Output
7														

Menu | Input | Output

Create a Filter Sheet

Type New Sheet Name   OK   Cancel

A|

	A	B	C	D	E	F	G	H		N
1	X	Filter	Color	Columns		X	Compare	Color		
2										tes (Input)
6									Run Filter/Compare	Sort Output

Menu | Input | Output

A	B	C	D	E	F	G	H	I
X	Filter	Color	Columns		X	Compare	Color	Columns
☐	A		1					

Add Filter   No Duplicates (Input)
Add Comparison   Sort Input
Run Filter/Compare   Sort Output

Menu | Input | A | Output | ⊕

File Home Insert Page Layout Formulas Data Review View Developer Help ○ Tell me what you want to do

Calibri 11 A⁺ A Wrap Text General
B I U Merge & Center $ % , Conditional Formatting Format as Table Style

Clipboard   Font   Alignment   Number   Styles

C2

A	B	C	D	E	F	G	H	I
X	Filter	Color	Columns		X	Compare	Color	Columns
☐	A		1					

Add Filter   No Duplicates (Input)
Add Comparison   Sort Input
Run Filter/Compare   Sort Output

File Home Insert Page Layout Formulas Data Review View Developer Help ○ Tell me what you want to do

Calibri 11 A⁺ A Wrap Text General
B I U Merge & Center $ % , Conditional Formatting Format as Table Style

Clipboard   Font   Alignment   Number   Styles

E7

A	B	C	D	E	F	G	H	I
X	Filter	Color	Columns		X	Compare	Color	Columns
☐	A	(red)	1					

Add Filter   No Duplicates (Input)
Add Comparison   Sort Input
Run Filter/Compare   Sort Output

Input sheet:

	A	B
1	Header1	Header2
2	b	
3	a	c
4	a	d
5	c	

Tabs: Menu | **Input** | A | Output

A sheet:

	A	B
1	HeaderF1	HeaderF2
2	a	c

Tabs: Menu | Input | **A** | Output

Menu sheet

X	Filter	Color	Columns		X	Compare	Color	Columns
☑	A	(red)	1					

Buttons:
- Add Filter
- No Duplicates (Input)
- Add Comparison
- Sort Input
- Run Filter/Compare
- Sort Output

Sheet tabs: Menu | Input | A | Output

Input sheet

Header1	Header2
b	
a	c
a	d
c	

Sheet tabs: Menu | Input | A | Output

	A	B
1	Header1	Header2
2	b	
3	c	

Menu | Input | A | **Output**

Example Filter 2, Using More Columns

Changing columns used to filter to 2, using the settings from the example before:

	A	B
1	Header1	Header2
2	b	
3	a	c
4	a	d
5	c	

Menu | **Input** | A | Output

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	HeaderF1	HeaderF2												
2	a	c												
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														

Menu | Input | **A** | Output

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	X	Filter	Color	Columns		X	Compare	Color	Columns					
2	☑	A		2							Add Filter		No Duplicates (Input)	
3														
4											Add Comparison		Sort Input	
5														
6											Run Filter/Compare		Sort Output	
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														

Menu | Input | A | Output

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Header1	Header2												
2	b													
3	a	c												
4	a	d												
5	c													

Menu · Input · A · Output · ⊕

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Header1	Header2												
2	b													
3	a	d												
4	c													

Menu · Input · A · Output · ⊕

Example Filter 3, Working with 2 Filters

Add new Filter

Input sheet:

	A	B
1	Header1	Header2
2	b	
3	a	c
4	a	d
5	c	

Sheets: Menu | **Input** | B | A | Output

A sheet:

	A	B
1	HeaderF1	HeaderF2
2	a	c

Sheets: Menu | Input | B | **A** | Output

Sheet B

	A	B
1	Header	Header
2	a	d

Menu Sheet

	X	Filter	Color	Columns		X	Compare	Color	Columns
1	X	Filter	Color	Columns		X	Compare	Color	Columns
2	☑	A	(red)	2					
3	☑	B	(orange)	2					

Buttons:

Add Filter	No Duplicates (Input)
Add Comparison	Sort Input
Run Filter/Compare *(circled)*	Sort Output

Input Sheet

	A	B
1	Header1	Header2
2	b	
3	a (red)	c (red)
4	a (orange)	d (orange)
5	c	

Tabs: Menu | Input | B | A | Output

Output sheet:

	A	B
1	Header1	Header2
2	b	
3	c	

Tabs: Menu | Input | B | A | **Output**

Example Filter 4, Filter Priority

Input sheet:

	A	B
1	Header1	Header2
2	b	
3	a	c
4	a	d
5	c	

Tabs: Menu | **Input** | B | A | Output

A sheet:

	A	B
1	HeaderF1	HeaderF2
2	a	c

Tabs: Menu | Input | B | **A** | Output

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Header	Header												
2	a	d												
3														
4														
5														

Menu | Input | **B** | A | Output | ⊕

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	X	Filter	Color	Columns		X	Compare	Color	Columns					
2	☑	A	🟥	1							Add Filter		No Duplicates (Input)	
3	☑	B	🟧	2										
4											Add Comparison		Sort Input	
5														
6											Run Filter/Compare		Sort Output	
7														

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Header1	Header2												
2	b													
3	a 🟥	c												
4	a 🟥	d												
5	c													
6														

Menu | **Input** | B | A | Output | ⊕

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Header1	Header2												
2	b													
3	c													
4														
5														

Menu | Input | B | A | **Output** | ⊕

● Add Comparison Sheets

You can choose the number of columns to be compared with the Output Sheet and choose a color that will fill the Output Cells when equal.

The difference between Filter and Comparison is that Filter Paints Input and the rest goes to Output (Rows not Painted), while Comparison just Paints Output.

In the Menu the lower the Row of the Comparison the higher the priority of the Comparison.

Filter and Comparison Sheets are not modified by the Buttons, only Input and Output Sheets.

Example Comparison 1, Starting

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	X	Filter	Color	Columns		X	Compare	Color	Columns					
2	☑	A	🟥	1							Add Filter		No Duplicates (Input)	
3	☑	B	🟧	2										
4											Add Comparison		Sort Input	
5														
6											Run Filter/Compare		Sort Output	
7														
8														

Menu | Input | B | A | Output | ⊕

Create a Comparison Sheet ✕

Type New Sheet Name   [OK] [Cancel]

`C`

	A	B	C	D	E	F	G	H	I	M	N
1	X	Filter	Color	Columns		X	Comp				
2	☑	A	🟥	1						No Duplicates (Input)	
3	☑	B	🟧	2							
4										Sort Input	
5											
6										Sort Output	
7									Run Filter/Compare		
8											

Menu | Input | B | A | Output | ⊕

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	X	Filter	Color	Columns		X	Compare	Color	Columns					
2	☑	A	🟥	1		☐	C		1		Add Filter		No Duplicates (Input)	
3	☑	B	🟧	2										
4											Add Comparison		Sort Input	
5														
6											Run Filter/Compare		Sort Output	
7														

File | Home | Insert | Page Layout | Formulas | Data | Review | View | Developer | Help | ♀ Tell me what you want to do

Calibri | 11 | General | Conditional Formatting | Insert | Σ | A↓
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H2

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	X	Filter	Color	Columns		X	Compare	Color	Columns					
2	☑	A	🟥	1		☐	C		1		Add Filter		No Duplicates (Input)	
3	☑	B	🟧	2										
4											Add Comparison		Sort Input	
5														
6											Run Filter/Compare		Sort Output	
7														
8														

Menu | Input | B | A | C | Output | ⊕

A	B	C	D	E	F	G	H	I	J	K	L	M	N
X	Filter	Color	Columns		X	Compare	Color	Columns					
☑	A	🟥	1		☐	C	🟦	1			Add Filter		No Duplicates (Input)
☑	B	🟧	2										
											Add Comparison		Sort Input
											Run Filter/Compare		Sort Output

Menu | Input | B | A | C | Output | ⊕

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Header1	Header2												
b													
a	c												
a	d												
c													

Menu | Input | B | A | C | Output | ⊕

A	B	C	D	E	F	G	H	I	J	K	L	M	N
HeaderC	HeaderC												
b	a												

Menu | Input | B | A | C | Output | ⊕

A	B	C	D	E	F	G	H	I	J	K	L	M	N
X	Filter	Color	Columns		X	Compare	Color	Columns					
☐	A	🟥	1		☑	C	🟦	1			Add Filter		No Duplicates (Input)
☐	B	🟧	2										
											Add Comparison		Sort Input
											Run Filter/Compare		Sort Output

Menu | Input | B | A | C | Output | ⊕

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Header1	Header2												
b													
a	c												
a	d												
c													

Menu | Input | B | A | C | Output | ⊕

Example Comparison 2, Using More Columns

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Header1	Header2												
b													
a	c												
a	d												
c													

Menu | Input | B | A | C | Output | ⊕

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	HeaderC	HeaderC												
2	b	a												
3														
4														

Menu | Input | B | A | Ⓒ | Output

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	X	Filter	Color	Columns		X	Compare	Color	Columns					
2	☐	A	[red]	1		☑	C	[blue]	②					
3	☐	B	[orange]	2										
4														
5														
6														
7														

Buttons: Add Filter | No Duplicates (Input) | Add Comparison | Sort Input | (Run Filter/Compare) | Sort Output

Menu | Input | B | A | C | Output

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Header1	Header2												
2	b													
3	a	c												
4	a	d												
5	c													
6														

Menu | Input | B | A | C | **Output**

Look at the previous example

Example Comparison 3, Working with 2 Comparisons and Priority

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Header1	Header2												
2	b													
3	a	c												
4	a	d												
5	c													
6														
7														

Menu | **Input** | B | A | C | D | Output

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	HeaderC	HeaderC												
2	b	a												
3														

Menu | Input | B | A | **C** | D | Output

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	HeaderX	HeaderX												
2	c													
3	b													
4														

Menu | Input | B | A | C | **D** | Output

● Run those filters and comparisons

The difference between Filter and Comparison is that Filter Paints Input and the rest goes to Output (Rows not Painted), while Comparison just Paints Output.

In the Menu the lower the Row of the Filter/Comparison the higher the priority of the Filter/Comparison.

Filter and Comparison Sheets are not modified by the Buttons, only Input and Output Sheets.

Example Run

Sheet D:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	HeaderX	HeaderX												
2	c													
3	b													
4														

Menu | Input | B | A | C | **D** | Output

Menu Sheet:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	X	Filter	Color	Columns		X	Compare	Color	Columns					
2	☑	A		1		☑	C		1		Add Filter		No Duplicates (Input)	
3	☑	B		2		☑	D		2					
4											Add Comparison		Sort Input	
5														
6											Run Filter/Compare		Sort Output	
7														
8														

Menu | Input | B | A | C | D | Output

Input Sheet:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Header1	Header2												
2	b													
3	a	c												
4	a	d												
5	c													
6														
7														

Menu | **Input** | B | A | C | D | Output

Output Sheet:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Header1	Header2												
2	b													
3	c													
4														

Menu | Input | B | A | C | D | **Output**

● Remove Duplicates from Input Sheet

It uses ALL Columns from the Input Sheet and excludes Headers.

● Sort Input Sheet (Ascending)

It uses ALL Columns from the Input Sheet and excludes Headers.

● Sort Output Sheet (Ascending)

It uses ALL Columns from the Output Sheet and excludes Headers.

How to Start

1. Download the .xlsm file
2. Open it

3. Enable Macros (File -> Options -> Trust Center -> Trust Center Settings... -> Trusted Locations -> Add File Location -> Re-open File)
4. Enjoy it