Project: Convert excel file to multiple csv files

**Goal**: to create excel file with macro, which will convert defined excel file into one or multiple csv files

Both Input file and Output file structures are described dynamically in the Macro file. The goal is to provide flexibility to user, in case he/she needs to work with different input file, modify output file structure, or change the data manipulation required to create output file from the input file.

Some data manipulation is described in Excel formula syntax (English language).

If such flexible approach should dramatically increase development costs, it will be reconsidered and simplified.

Macro file:



**Macro Process:**

* user opens excel file with macro (= macro file)
	+ the user may change the variables defined on the specific sheets
		- Var – Output file contains variables of output file columns (green section)
			* if OC1 (short for output column 1) = OrderNumber, the first column of output file will be named OrderNumber
		- Var – Output file contains information on what the particular column should contain (red section)
			* if column “variable” contains value, that variable will be put in output column
			* if column “null?” =yes, the column will contain no value (2 delimiters next to each other)
			* if column “formula” contains value, that formula will be used to fill in the output column
			* if column “constant” contains value, that constant will be put into the output column
		- Var – Input file contains variables of input file columns
		- Var general contains other variables
		- Var sheets contains variables which are sheets (LUT stands for look-up table)
* user runs the macro, eg by pressing a button on the first sheet
* macro will
	+ open the first file from @InputFileDirectorySource folder
	+ sort the file according to @SortColumn1, @SortColumn2
	+ processes all lines one by one, creating separate CSV (output file) for each @Grouby value
		- output file will have header defined by variables OC1 – Ocn
		- header (column names) will be delimited by @Delimiter
		- each line after the header will be created as described in red section of Var – Output file
		- each value will be delimited by @Delimiter
		- file will named as @OutputFileName and saved in @OutputFileDirectory
	+ after last line of input file will be processed, the input file will be closed (unsaved) and moved to @InputFileDirectoryArchive folder
	+ then next file from @InputFileDirectorySource folder will be processed…
	+ …until all files from @InputFileDirectorySource folder will be processed and the folder will be empty
	+ then macro will stop and inform the user
* error handling
	+ the user must ensure that all input files have the same and relevant structure. If macro cannot find in the input file column name as defined in Var – Input file, it will inform the user and stop
	+ the user must ensure that all variables in Var -sheets make sense, meaning that the sheets exist in the macro file. If macro cannot find the sheets, it will inform the user and stop

Example of output file



Example of **input** file:

