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PIVOTISING TEXT WITHIN A TABLE CALCULATION

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PIVOTISING TEXT WITHIN A TABLE CALCULATION PROGRAM

Technical task:

The task of the technical innovation is to have an additional function in Spreadsheet programs that also allows a compression of non-numeric content within the tables.

Initial situation:

A spreadsheet program (such as Microsoft Excel) works with two-dimensional tables that have rows and columns. Usually, data is stored within the tables in a line-oriented manner. The respective attributes are listed in separate columns and have column headings.

Figure 1 shows a simple example of a data table. The column headers are highlighted in yellow.

Pivoting data is a great feature of Excell.

Here, the data is compressed in relation to a selectable column header.

In Fig. 2, with the existing Excel functionality for the example above, a pivot to the project number was made in relation to the column heading „Effort“.

As a result, the program forms a single line per project number with the sum of all expenses specified for the project number (see pivot tables).

Such compaction is provided in Excel for numbers only. If the columns have a different content, no evaluation takes place.

For example, here is a desired additional function that the existing subprojects and approval dates are displayed for the project number in a row.

Solution:

The idea consists of an extra functionality *) for the spreadsheet program, condensed into table-selectable column headings whose contents are not numeric.

By way of illustration, for the example, a compression of the columns „Subproject“ and „Approval Date“ in relation to the project number is performed (see also Fig. 1). The result is shown in Fig.3.

Thus, the information for non-numerical content in one line is now compressed per project number.

The type of compression can be selected later. For example, the delimiter and, if a new entry is created, a new line within the cell can be selected (line break).

Advantages:

- Pivoting (compression) can also be used for non-numerical content.

Possible application:

- Applicable in spreadsheet programs.

Stand der Technik

	A	B	C	D	E
1					
2		Projektnummer	Aufwand	Teilprojekt	Genehmigungsdatum
3		4711	70.000	A	01.07.2015
4		4713	20.000	A	01.02.2016
5		4711	30.000	B	13.01.2016
6		4712	50.000	A	15.07.2017
7		4713	10.000	B	13.02.2016
8		4712	12.000	B	29.08.2017
9		4709	9.000	X	03.05.2016

Abb. 1

3	Zeilenbeschriftungen	Summe von Aufwand
4	4709	9.000
5	4711	100.000
6	4712	62.000
7	4713	30.000
8	Gesamtergebnis	201.000

Abb. 2

	A	B	C
1	Projektnummer	Teilprojekt	Genehmigungsdatum
	94711	B; C; D	01.01.2007; 01.01.2011; 01.01.2013
2	94713	A;	01.07.2015;
3		B	01.01.2016
4	98001	E	01.01.2017

Abb. 3

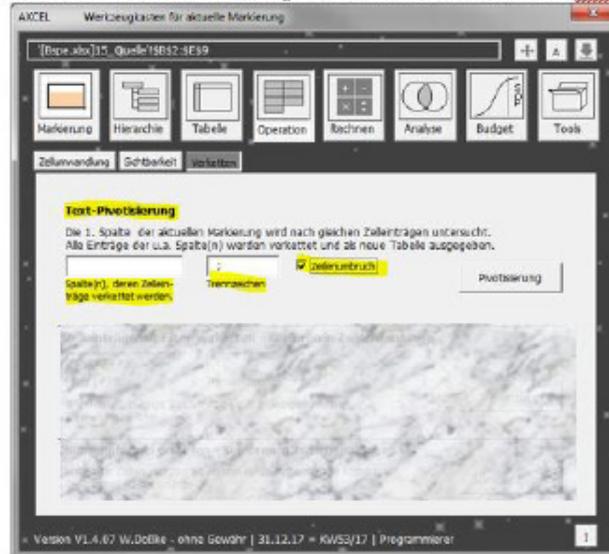
Technische Neuerung

Beispielablauf:

a) Markierung der Ausgangstabelle

	A	B	C	D	E
1					
2	Projektnummer	Aufwand	Teilprojekt	Genehmigungsdatum	
3	4711	70.000	A	01.07.2015	
4	4713	20.000	A	01.02.2016	
5	4711	30.000	B	13.01.2016	
6	4712	50.000	A	15.07.2017	
7	4713	10.000	B	13.02.2016	
8	4712	12.000	B	29.08.2017	
9	4709	9.000	X	03.05.2016	

b) Aufruf der Funktion innerhalb Tool „AXCEL“ mit der Tastenkombination STRG+D



Auswahl der Spalten, deren Zelleinträge verkettet werden sollen.

	A	B	C	D	E	F	G	H	I
1									
2	Projektnummer	Aufwand	Teilprojekt	Genehmigungsdatum					
3	4711	70.000	A	01.07.2015					
4	4713	20.000	A	01.02.2016					
5	4711	30.000	B	13.01.2016					
6	4712	50.000	A	15.07.2017					
7	4713	10.000	B	13.02.2016					
8	4712	12.000	B	29.08.2017					
9	4709	9.000	X	03.05.2016					



Zudem kann ein beliebiges Trennzeichen angegeben werden. Optional werden die einzelnen Einträge mit einem Zeilenumbruch versehen.

c) Ergebnisdarstellung:

Die Verdichtung ist vollzogen.

	A	B	C
1	Projektnummer	Teilprojekt	Genehmigungsdatum
	94711	B	01.01.2007
		C:	01.01.2011:
		D	01.01.2013
2	94713	A	01.07.2016
		B	01.01.2016
3			
4	99001	E	01.01.2017