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How to copy part of dynamic tables in excel based on an id?

I have 2 dynamics tables in a worksheet

```
projectId | start    | end        | employee | name | amount
----------------------------------------------------------
5013-001  | 12-01-01 | 13-01-01 |   001    | bob  | 100 $
                                 |   021    | foo  | 200 $
                                 |   101    | bar  | 300 $
                                 |   111    | luc  | 300 $
          ------------------------------------------------
total 5013-001                                       900 $
          ------------------------------------------------
5013-002  | 12-01-01 | 13-01-01 |   001    | bob  | 150 $
                                 |   021    | foo  | 205 $
          ------------------------------------------------
total 5013-002                                       355 $

--Snip--

projectId | expenseCode    | total
-------------------------------------
5013-001   | T01 Summary   | 4504$
           | D01 Summary   |  204$
total 5013-001             | 4708$
-------------------------------------
5013-002   | T01 Summary   | 1007$
total 5013-002             | 1007$

--Snip--
```

expected result :

```
projectId | start    | end        | employee | name | amount
----------------------------------------------------------
5013-001  | 12-01-01 | 13-01-01 |   001    | bob  | 100 $
                                 |   021    | foo  | 200 $
                                 |   101    | bar  | 300 $
          ------------------------------------------------
total 5013-001                                       600 $
          ------------------------------------------------

projectId | expenseCode    | total
-------------------------------------
5013-001   | T01 Summary   | 4504$
           | D01 Summary   |  204$
total 5013-001             | 4708$
-------------------------------------

--page break--
```

How would you proceed to have both tables filtered by projectId, each on one page? (number of columns
is fix, but not rows!)

I'm guessing a macro but I though there might something simpler.

If I should indeed use a macro, is the engine powerful enough? I never coded excel macro, so I'll gladly

take any tips/references.

One last *subjective* question : Do you think this problem is solvable in ~1 workday?

excel   excel-vba   excel-2003

asked Oct 18 '12 at 18:57

Kraz
2,766   1   11   41

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can you post a link to a dummy sample set of data? – Scott Holtzman Oct 18 '12 at 19:05

Unfortunately, no. :/ – Kraz Oct 18 '12 at 19:09

Do the same projectIds appear in both tables in the same sequence? If not, are the projectIds in ascending sequence so the correct action can be determined if one is missing? This should not take long to program (much less than 8 hours) or run with VBA? – Tony Dallimore Oct 19 '12 at 16:51

Yes, same order. – Kraz Oct 19 '12 at 17:50

add a comment

1 Answer

Your profile says you program so I assume the problem is that you do not know VBA syntax. I have made assumption about your tables but I also assume you can amend my code if my assumptions are incorrect.

I have created a copy of your data in worksheet TblSrc.

Table 1:

	A	B	C	D	E	F
1	projectId	start	end	employee	name	amount
2	--------					--------
3	5013-001	12-01-01	13-01-01	001	bob	100 £
4				021	foo	200 £
5				101	bar	300 £
6				111	luc	300 £
7	--------					--------
8	total 5013-001					900 £
9	--------					--------
10	5013-002	12-01-01	13-01-01	001	bob	150 £
11				021	foo	205 £
12	--------					--------
13	total 5013-002					355 £
14	--------					--------

Table 2:

	projectId	expenseCode			total	
38						
39	projectId	expenseCode			total	
40	--------					
41	5013-001	T01 Summary			4,504 £	
42		D01 Summary			204 £	
43	total 5013-001				4,708 £	
44	--------					
45	5013-002	T01 Summary			1,007 £	
46	total 5013-002				1,007 £	
47	--------					

I duplicated these rows so I have eight sub tables in each main table. The code relies on there being a one-to-one match between the two main tables. I do not check the two sub tables match. This is not enough data for any real timings but for, what it is worth, the macro below took .03 seconds to copy four pairs of sub tables to create:

	A	B	C	D	E	F	G	H	I
1	projectId	start	end	employee	name	amount			
2	----								
3	5013-001	12-01-01	13-01-01	001	bob	100 £			
4				021	foo	200 £			
5				101	bar	300 £			
6				111	luc	300 £			
7	----								
8	total 5013-001					900 £			
9	----								
10									
11	projectId	expenseCode				total			
12	----								
13	5013-001	T01 Summary				4,504 £			
14		D01 Summary				204 £			
15	total 5013-001					4,708 £			
16	----								
17	projectId	start	end	employee	name	amount			
18	----								
19	5013-002	12-01-01	13-01-01	001	bob	150 £			
20				021	foo	205 £			
21	----								
22	total 5013-002					355 £			
23	----								
24									
25	projectId	expenseCode				total			
26	----								
27	5013-002	T01 Summary				1,007 £			
28	total 5013-002					1,007 £			
29	----								
30	projectId	start	end	employee	name	amount			

I created the lines of hyphens by merging the cells, setting the first to '- and setting the horizontal alignment to Fill. I identify separator rows by checking for the first character of a column A being hyphen. The single quote before the hyphen is to stop it looking like an invalid negative number. It is not part of the cell value.

This macro is not the fastest approach to this problem but will copy any formatting in your sub tables from source to destination.

There are some comments within the macro but perhaps not enough. I suggest you step through the macro with F5 (run until next breakpoint) and F8 (execute next statement).

Come back with questions and I will my improve answer. If you can give more information about your data, I may be able to show you other approaches.

Warning it is 21:45 here and I am not sure about my internet access tomorrow. I will respond to questions as soon as I can.

Option Explicit Sub CombineTables()

```vba
    Worksheets("TblDest").HPageBreaks.Add _
                          Before:=Worksheets("TblDest").Cells(RowDestCrnt, 1)
  Loop

  Debug.Print Timer - timeStart

  Application.EnableEvents = True
  Application.ScreenUpdating = True


End Sub

Function ColNumToCode(ByVal ColNum As Long) As String

  ' Convert column number (such as 1, 2, 27, etc.) to
  ' column code (such as A, B, AA, etc.)

  Dim Code As String
  Dim PartNum As Long

  ' Last updated 3 Feb 12.  Adapted to handle three character codes.
  If ColNum = 0 Then
    ColNumToCode = "0"
  Else
    Code = ""
    Do While ColNum > 0
      PartNum = (ColNum - 1) Mod 26
      Code = Chr(65 + PartNum) & Code
      ColNum = (ColNum - PartNum - 1) \ 26
    Loop
  End If

  ColNumToCode = Code

End Function
```

edited Oct 19 '12 at 21:00   answered Oct 19 '12 at 20:45

                                     Tony Dallimore
                                     6,192 2 7 25

I should add that I can also amend the code if I have seriously misunderstood the nature of your tables. –
Tony Dallimore Oct 19 '12 at 22:52

add a comment

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excel-2003 or ask your own question.