

# Re: Mix/Max/Avg Help based on dynamic ranges

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*Source:*

<http://www.tech-archive.net/Archive/Excel/microsoft.public.excel.worksheet.functions/2008-08/msg03534.html>

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- From: Hile <[Hile@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Hile@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - Date: Tue, 26 Aug 2008 10:56:01 -0700
- 

Biff

I added the column and broke up the ranges but the calculation did not yield results. It returned #NA. I already have 8 calcs based on this methodology and can't afford to redo all this work.

Duke's answer seems pretty complicated but I'll give it a try. I've never used the MS Query function.

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Hile

"T. Valko" wrote:

```

Matrix!$B$5:$B$8
HC Range
1-10
11-30
31-50
50-

```

I would recommend that you split those into separate cells. Your formulas would then be less complicated.

For your last range I'd use a really big arbitrary number that you know will never be exceeded. Like this:

```

.....B.....C
5.....1.....10
6.....11.....30
7.....31.....50
8.....51.....1000

```

Then this:

=COUNTIF(Analysis!\$I\$7:\$I\$151,">="&VALUE(LEFT(Matrix!\$B5,FIND("-",Matrix!\$B5)-1)))-COUNTIF

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Becomes this:

=SUMPRODUCT(--(Analysis!\$I\$7:\$I\$151>=Matrix!\$B5),--(Analysis!\$I\$7:\$I\$151<=Matrix!\$C5))

Now your avg, min, max become relatively easy. Follow this general syntax and array enter\*\* :

=AVERAGE(IF((Analysis!\$I\$7:\$I\$151>=Matrix!\$B5)\*(Analysis!\$I\$7:\$I\$151<=Matrix!\$C5)\*(Nums<>0),N

Where Nums are the values to avg based on the head count range.

\*\* array formulas need to be entered using the key combination of CTRL,SHIFT,ENTER (not just ENTER)

--  
Biff  
Microsoft Excel MVP

"Hile" <Hile@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
[news:99222078-4037-4B07-B6E2-3A2BB5E965E8@xxxxxxxxxxxxxxxxxxxx](mailto:news:99222078-4037-4B07-B6E2-3A2BB5E965E8@xxxxxxxxxxxxxxxxxxxx)

WinXP Excel 2k3

Ok...this will be long so thank you in advance for reading:

I have a spreadsheet with survey results (Analysis!) about users' device utilization (print/scan/fax/copy) imported all as text from web app.

Linked to headcount data for locn sizes based on location# in survey via this formula in column range \$I\$7:\$I\$151...  
=VLOOKUP(Analysis!G34&"\*",Area!\$E\$5:\$F\$787,2,FALSE)  
...and now want to derive some stats from the answers in a summary tab (Matrix!).

Matrix!\$B\$5:\$B\$8 are arbitrary ranges which will change until a set range is deemed optimal for building device profiles based on locn size and device volume, and so formulas need to recalc each time ranges change.

- HC Range
- 1-10
- 11-30
- 31-50
- 50-

All the other calcs on Matrix! are based on HC Range col, because they go fetch the info in Analysis! based on whether or not that locn fits the range size on this column. This is the dynamic range part. Bernie D. was kind

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enough to help with counting the # of locns which fit the range on each cell;

I've then been able to modify his formula in Matrix!\$G5:\$G8...

=COUNTIF(Analysis!\$I\$7:\$I\$151,">="&VALUE(LEFT(Matrix!\$B5,FIND("-",Matrix!\$B5)-1)))-C

...to give me average # of devices per device type by replacing countif with

sumif function and dividing by the results of the countif formula...

=(SUMIF(Analysis!\$I\$7:\$I\$151,">="&VALUE(LEFT(Matrix!\$B5,FIND("-",Matrix!\$B5)-1)),Analy

I thought I would be able to use this methodology throughout but...Now I'm trying to figure out device volumes. Problem is, I've hit a wall trying to use the min, max and avg within the range condition. The Analysis! tab needs

to also be free to be sorted and resorted for other purposes w/o affecting the results of the Matrix!. So I want each formula to give me the Min, Max and Avg of all records in Analysis!\$7:\$151 that fall headcountwise within the

range specified, AND I need each formula to ignore zero and blank cells.

Volumes are located as follows:

Print Volume: Analysis!\$AH\$7:\$AH\$151

Copy Volume: Analysis!\$CQ\$7:\$CQAH\$151

...etc, I can plug in the others once I have a working formula

I hope I gave enough info and didn't confuse things. I'll be more than happy

to share the file if I'm told where to send it. I've been working on it for 2

days now. I tried this syntax which in my feeble mind is what I want but excel won't accept it, it shades [!\$151">="] as an error

=min(if(and(Analysis!\$I\$7:\$I\$151">="&VALUE(LEFT(Matrix!\$B5,FIND("-",Matrix!\$B5)-1)),Ana

Hopefully, whatever I get from this post I can also use for MAX and AVERAGE functions.

Thank you all who managed to read the whole thing before falling asleep.

:~)

When you wake up, I would LUUUUUUV some help!

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Hile