

Re: how to return multiple corresponding values

Source:

<http://www.tech-archive.net/Archive/Excel/microsoft.public.excel.worksheet.functions/2009-04/msg00068.html>

- *From:* nikko <nikko@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 31 Mar 2009 22:29:01 -0700
-

Sorry .. didnt get wad you mean...

--

nikko

"T. Valko" wrote:

Refresh my memory.

--

Biff
Microsoft Excel MVP

"nikko" <nikko@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:CFE079CA-4E39-4092-89A3-7DEF6B53C4AD@xxxxxxxxxxxxxxxxxxxx

Hi Biff

Using below formula and its returning the values not in sequence

```
=INDEX('Data3-Opp Activities Info'!H$1:H$13,SMALL(IF('Data3-Opp  
Activities  
Info'!A$1:A$13=$J$2,ROW($1:$13)),ROW(1:1)))
```

is there a way to return the corresponding values in sorted order i.e. w
the
most recent activity showing up first?

Thanks you!

--

nikko

"Biff" wrote:

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in the formula, it looks like we're multiplying the rng2 value by the corresponding value in rng3, however the rng2 value is not a number. it is in most cases text. not sure if that is the problem.

No, it's not a problem. It's not actually multiplying numbers. It's multiplying logical tests that return either TRUE or FALSE. For example:

```
('PO Detail'!B$1:B$500=$B$3)*('PO Detail'!K$1:K$500>0)
```

This will return an array like this:

```
(TRUE)*(TRUE)  
(TRUE)*(FALSE)  
(FALSE)*(TRUE)  
(FALSE)*(FALSE)
```

These logicals are multiplied together and result in an array of 1's or 0's where 1 evaluates to the value_if_true and 0 evaluates to the value_if_false. The value_if_true is a number from 1 to 500 that's derived from this expression:

```
ROW(INDIRECT("1:"&ROWS('PO Detail'!B$1:B$500)))
```

When the value_if_true condition is met then the corresponding numbers from that expression are then passed to the Small function.

```
..here is my exact formula (Array entered)  
=INDEX('PO  
Detail'!D$1:D$500,SMALL(IF('PO  
Detail'!B$1:B$500=$B$3)*('PO  
Detail'!K$1:K$500>0),ROW(INDIRECT("1:"&ROWS('PO  
Detail'!B$1:B$500))))),ROW('PO  
Detail'!B18))
```

If you're not using dynamic named ranges then I would "dummy down" this

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portion:

```
ROW(INDIRECT("1:"&ROWS('PO Detail'!B$1:B$500))
```

To:

```
ROW($1:$500)
```

You don't actually need the sheet name or the cell references but you'll see where some people use them just for a better understanding.

Biff

"gfactor" <gfactor@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:FF4F3BF6-3FF2-40A0-B084-40ADC4F9934D@xxxxxxxxxxxxxxxxxxxx

biff,

thanks for your help...getting an error. here is what you recommended:

```
=INDEX(Rng2,SMALL(IF((Rng1=$z$1)*(Rng3>0),ROW(INDIRECT("1:"&ROWS
```

..here is my exact formula (Array entered)

```
=INDEX('PO  
Detail'!D$1:D$500,SMALL(IF('PO  
Detail'!B$1:B$500=$B$3)*('PO  
Detail'!K$1:K$500>0),ROW(INDIRECT("1:"&ROWS('PO  
Detail'!B$1:B$500))),ROW('PO  
Detail'!B18)))
```

its still bringing back values from range 2 if range 3 is >0. in the formula, it looks like were multiplying the rng2 value by the corresponding value in rng3, however the rng2 value is not a number. it is in most cases
text. not sure if that is the problem. maybe we can just check to see if rng3 is >0? i tried this, but syntax wasn't right. any thoughts?

thanks in advance,

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g

"Biff" wrote:

> i only want the result
delivered if the value in
(rng3) is ">0"

Try this: (array entered)

=INDEX(Rng2,SMALL(IF((Rng1=\$z\$1)*(Rng3>0),ROW(INDIRECT("1:"&

Biff

"gfactor"

<gfactor@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:0BC1D732-CEB4-4347-A0C5-178C6204E252@xxxxxxxxxxxxxxxxxxxx

biff -

you nailed
it kid. got
the result i
was looking
for in terms
of
being
able
to have a
variable
length
array. here's
my next
question:

lets assume
my formula
reads as
follows:

=INDEX(Rng2,SMALL(IF(Rng1=\$z\$1,ROW(INDIRECT("1:"&RO

...and my
data looks
like this:

a(rng2)

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b(rng1) c
(rng4)
1 y1 p1 5
2 x1 p2 1
3 y1 p3 0
4 z1 p4 3
5 q1 p5 4

if my \$z\$1
value is
"y1"...the
formula
returns 2
data sets:

y1 p1
y1 p3

the thing is,
i only want
the result
delivered if
the value in
(rng3)
is
">0"

can you
help me?

thanks in
advance.

g

"Biff"
wrote:

You
can
use
dynamic
ranges
that
automatically
adjust
as
the

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size
of
your
data
set
changes.

See
instructions
here:

<http://contextures.com/xlNames01.html#Dynamic>

Then
the
formula
would
be
something
like
this:
(array
entered)

=INDEX(Rng2,SMALL(IF(Rng1=\$D\$1,ROW(INDIRECT("

Biff

"gfactor"
<gfactor@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote
in
message
news:646EC043-0E9A-49B9-BBA8-CBAB1309FD02@xx

Biff,

I'm
using
your
formula:

=INDEX(\$B\$1:\$B\$190,SMALL(IF(\$A\$1:\$A\$190=\$

My
question
is
this:
Can
the
ranges

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\$B\$1:\$B\$190
and
A\$1:\$A\$190
be
named
ranges
with
variable
amounts
of
data?
I
export
data
out
of
our
accounting
and
want
to
use
the
formula,
but
the
number
of
data
points
changes.
It
seems
that
the
function
only
works
if
all
the
cells
between
\$b\$1
and
\$b\$190
have
data.
Am
i
missing

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something?

thanks
in
advance,

greg

"Biff"
wrote:

Hi!

this
formula
works
if
the
sheet
is
sorted
by
the
value
i'm
looking
up
and
if
there
are
no
duplicates
in
the
field
I
want
returned.

The
sheet
does
not
need
to
be
sorted

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and
it
doesn't
matter
if
there
are
dupe
return
values.

Post
the
EXACT
formula
that
you
tried.

I
then
want
to
include
this
in
a
weekly
dashboard
for
the
50+
managers
i'm
monitoring.
have
you
got
anything
else?

Pivot
table
or
filter

Biff

"MetricsShiva"

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<MetricsShiva@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote
in
message
news:DAC4D500-E098-42F4-BE13-C8CC

this
formula
works
if
the
sheet
is
sorted
by
the
value
i'm
looking
up
and
if
there
are
no
duplicates
in
the
field
I
want
returned.
Otherwise
i
get
either
incorrect
values
returned
or
errors..

basically,
i
have
a
sheet
listing
jobs
scheduled
by

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managers.

I

want

to

be

able

to

look

up

the

manager's

name

and

return

a

list

of

all

the

job's

scheduled

and

the

dates

they

were

scheduled

on.

I

then

want

to

include

this

in

a

weekly

dashboard

for

the

50+

managers

i'm

monitoring.

Thanks

for

the

response,

but

have

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Re: how to return multiple corresponding values

you
got
anything
else?

"Biff"
wrote:

Hi!

The
basic
formula
is
something
like
this:

Entered
as
an
array
using
the
key
combo
of
CTRL,SHIFT,ENTER:

=INDEX(B\$1:B\$10,SMALL

Then
copy
down.

Where
column
A
contains
the
lookup_value
and
column
B
contains
the
values
to

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be
returned.

Need
more
specific
details
to
offer
a
more
robust
suggestion.

Biff

"MetricsShiva"
<MetricsShiva@xxxxxxxxxx>
wrote
in
message
news:7CB57B18-A2B0-431

i
want
to
look
up
a
name
that
occurs
several
times
in
one
column
of
a
spreadsheet
and
return
corresponding
values
from
each
row
the
name
occurs
on.

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Vlookup
returns
only
one
value.
How
can
I
get
multiple
values?