

Re: Narrowing query results

Source:

<http://www.tech-archive.net/Archive/Access/microsoft.public.access.queries/2009-02/msg00162.html>

- *From:* John Spencer <spencer@xxxxxxxxxx>
 - *Date:* Tue, 03 Feb 2009 13:10:30 -0500
-

As I recall the query did not differentiate on the basis of the product. It should return ALL items that match criteria unless you enter criteria (a where clause) on the outer query.

For instance adding – WHERE Y.Product = "Sweater" should return all products that are Sweater for each company and color.

```
SELECT Y.Product, Y.Company, Y.Color, Y.Score, Y.Percent
FROM [YourTable] as Y Inner JOIN
(SELECT Product
, Company
, Color
, Min(Abs(Score-75)) as HowClose
GROUP BY Product, Company, Color
) as qClose
ON Y.Product = qClose.Product
AND Y.Company = qClose.Company
AND Y.Color = qClose.Color
AND Abs(Y.Score-75) = qClose.HowClose
FROM [YourTable]
WHERE Y.Product = "Sweater"
```

```
'=====
John Spencer
Access MVP 2002-2005, 2007-2009
The Hilltop Institute
University of Maryland Baltimore County
'=====
```

RandieRae wrote:

Hey Crystal,

I've been doing some reading on the MIN function, and I think I get how to do it. But is this just going to return one matching product? Or will it still filter all criteria, and only filter the Score field to closest value? In my previous example, I had given some different colored sweaters. I want to see all sweaters that come close to the score entered in the form, as well as all other products that match the other criteria, for example scarves, gloves, and t-shirts, as

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long as the score criteria matches. Does this make sense?

"strive4peace" wrote:

Hi Randie,

you're welcome.

Y is an "alias" (a short 'nickname') for the table (make up whatever you want) so you can type less in the the SQL statement <smile>

I have a chapter in Access Basics on SQL ...

Access Basics

8-part free tutorial that covers essentials in Access

<http://www.AccessMVP.com/strive4peace>

~~

> And how do I reference the value for

> Score when it is dependant on the value put into the form?

to reference a form control:

forms!formname!controlname

WHERE

formname is the Name of your form in the database window (main form)

controlname is the Name property of the control (you can change this to be logical if it is something ambiguous like Test123)

if the control is on a subform:

forms!formname!subform_controlname.form.controlname

WHERE

subform_controlname is the Name property of the subform control

Warm Regards,

Crystal

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*

(: have an awesome day :)

*

Re: Narrowing query results

RandieRae wrote:

Thank you both for your help. I've never written an SQL query before, so am a little foggy on some of the variables. John, when you use the "Y" attached to each field, what does it represent? And how do I reference the value for Score when it is dependant on the value put into the form? My query is structured Forms!MyForm!Score, and it works, so how does this translate into SQL?

I've really just learned Access in the last 2 months, and find it absolutely fascinating, and full of possibilities. But I do need a little help sometimes. So thank you for everything.

Randie

"strive4peace" wrote:

thanks for jumping in, John!

Close is a reserved word, so a different name should be chosen for the subquery ... maybe qClose

Problem names and reserved words in Access, by Allen Browne
<http://www.allenbrowne.com/AppIssueBadWord.html>

```
SELECT Y.Product, Y.Company, Y.Color,
Y.Score, Y.Percent
FROM [YourTable] as Y Inner JOIN
(SELECT Product
, Company
, Color
, Min(Abs(Score-75)) as HowClose
GROUP BY Product, Company, Color
) as qClose
ON Y.Product = qClose.Product
AND Y.Company = qClose.Company
AND Y.Color = qClose.Color
AND Abs(Y.Score-75) = qClose.HowClose
FROM [YourTable]
```

Warm Regards,
Crystal

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*

(: have an awesome day :)

*

John Spencer (MVP) wrote:

I hate when I do that. I left
out part of the SQL
statement

```
SELECT Y.Product,  
Y.Company, Y.Color,  
Y.Score, Y.Percent  
FROM [YourTable] as Y  
Inner JOIN  
(SELECT Product  
, Company  
, Color  
, Min(Abs(Score-75)) as  
HowClose  
GROUP BY Product,  
Company, Color  
) as Close  
ON Y.Product =  
Close.Product  
AND Y.Company =  
Close.Company  
AND Y.Color = Close.Color  
AND Abs(Y.Score-75) =  
Close.HowClose  
FROM YourTable
```

John Spencer
Access MVP 2002-2005,
2007-2009
The Hilltop Institute

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University of Maryland
Baltimore County

John Spencer (MVP) wrote:

You could
try a query
that looked
like:

RandieRae
wrote:

I
have
a
query
that
finds
product
information
based
on
criteria
put
into
a
form.
Quite
often,
there
are
multiple
results
for
one
product,
different
only
in
1
field.
I'm
trying
to
narrow
the
results
to
only

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the
nearest
value
to
that
put
into
the
field
on
the
form.
Will
it
be
easier
to
run
the
query
once,
and
then
another
query
of
the
resulting
recordset?
I'm
kind
of
a
VBA
beginner,
but
would
welcome
any
help
I
can
get.
Any
ideas?