

Re: A subquery? Not sure if this is doable?

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Source:

<http://www.tech-archive.net/Archive/Access/microsoft.public.access.queries/2006-02/msg00652.html>

- *From:* "Michel Walsh" <vanderghast@VirusAreFunnierThanSpam>
 - *Date:* Wed, 8 Feb 2006 13:40:40 -0500
-

Hi,

maybe an addition of one day for the infrequent table.. that would push the data into the next month (ie, if originally the date is 31st of January 2006, adding 1 will make it the figure to use in February 2006:

```
ON a.title=b.title AND a.date >= b.date
AND Year(a.date)=Year(b.date+1)
AND Month(a.date) = Month(b.Date+1)
```

note that Year(date+1) first add one to the date, then take the year part, somehow the same for Month(Date+1)

Sure, that makes a problem when a.date=b.date = end of the month. You probably want use that figure for that week, not the value from the first of the month. *if* so, then try

```
ON a.title=b.title AND a.date >= b.date AND Year(a.date)=Year(b.date+1+
Int(a.date=b.date) )
AND Month(a.date) = Month(b.Date+1 + int(a.date=b.date))
```

indeed, Int(a.date=b.date) returns -1 if both dates are equal, 0 otherwise. So the correction is as required under this assumption.

Hoping it may help,
Vanderghast, Access MVP

"kohai" <kohai@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:B4A06F46-3CBE-4A17-A5E1-C784B235F385@xxxxxxxxxxxxxxxxxxxx

Michel,

Re: A subquery? Not sure if this is doable?

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Thank you again. The table with weekly data has the index on the PK which is date and Cusip, same for table with monthly data (Date and Cusip).

Weekly data +1 mil rows
Monthly data 250 thou rows

The 2nd version of your example does work to some degree. It does return the weekly series and the repeating monthly figure. The SQL I am using is:

```
SELECT tbla.PEDATE, tbla.CUSIP, tbla.price, tbla.shs, tblb.netsales
FROM EPS_HISTORY AS tbla LEFT JOIN PS AS tblb ON (tbla.cusip=tblb.cusip)
and
(tbla.pedate<=tblb.psdate) AND Year(tbla.pedate) = Year(tblb.psdate) AND
Month(tbla.PEDATE)=Month(tblb.PSdate)
WHERE (tbla.PEDATE>=DateAdd("m",-12,Date()))
ORDER BY tbla.CUSIP, tbla.PEDate;
```

The problem is that the sales are from that week's month-end point, not from the previous month-end point. So for all the weeks in Jan-06, the sales returned are from 1/31/06, not 12/30/05. I'm guessing this is a function of the part

```
Year(tbla.pedate) = Year(tblb.psdate) AND
Month(tbla.PEDATE)=Month(tblb.PSdate)
```

but if I try and change the <>= parts, I no longer get the unique row per week, the weeks repeat depending on how many there for each month.

Can it be modified so that it looks backward, and not forward?

Thx.

Kohai
"Michel Walsh" wrote:

Hi,

That depends on how many records you have to deal with, and if there are indexes.

If you are sure there is only one record per month in the lessFrequent table, you can try:

```
SELECT a.date, a.title, a.data, b.data
```

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```
FROM moreFrequent As a LEFT JOIN lessFrequent AS b
ON a.title=b.title AND a.date >= b.date AND Year(a.date)=Year(b.date)
AND Month(a.date) = Month(b.Date)
```

Hoping it may help,
Vanderghast, Access MVP

"kohai" <kohai@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:3CFF299F-4C4F-4CDB-9915-416EB22DB8D2@xxxxxxxxxxxxxxxxxxxx

Michel,

Thanks for the speedy reply. I tried to use the SQL example
you wrote
and
my computer hangs and hangs and hangs.

This example should be returning each weeks data point for
each company
and
the previous month-ends data point in the other table such
that the
monthly
point will repeat for each week until a new month starts?

"Michel Walsh" wrote:

Hi,

```
SELECT a.date, a.title, LAST(a.data),
LAST(b.data)
FROM (moreFrequent As a INNER JOIN
lessFrequent as b
ON a.title=b.title AND a.date >= b.date)
INNER JOIN
lessFrequent
As
c
ON a.title=c.title AND a.date >= c.date
GROUP BY a.date, a.title, b.date
HAVING b.date =MAX(c.date)
```

should do. I hope you have indexes on title
and date fields.

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For a given a.date, a.title, b values are about all records with a date

less or equal to a.date.

For a given group, a.date, a.title, b.date, c values are about all records

with a date less of equal to b.date.

MAX(c.date) gives us the closest one,

<= a.date. so, keeping b.date=MAX(c.date) limit the records from the

JOINS

to those that correspond to the closest b.date

<=a.date

Hoping it may help,
Vanderghast, Access MVP

"kohai"

<kohai@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:6C8E57ED-61CE-43A4-A1F2-5706AAAC866D@xxxxxxxxxxxxxxxxxxxx

Hi,

Any help out there that the masters can shed some light on would be greatly appreciated.

I have tables where data is stored based on different frequencies(Daily, Weekly, Monthly). The primary keys are the Date and the Company ID.

What I am trying to figure out is whether there is any way to pull data from a table of greater date frequency and have the data from the table with less

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frequency such that the table
with less frequency will
repeat its
value
until
its next point in time.

I know that joins would
bring back only where the
values are equal
and
I
don't want to have to store
the data of shorter frequency
on a more
frequent
basis since it will be
repeating and violate
cardinal rule of db
design.

For Example:

More frequent:
1/5/05 ABC 5.25
1/5/05 DEF 2.41
1/5/05 XYZ 9.82
1/12/05 ABC 4.22
1/12/05 DEF 3.12
1/12/05 XYZ 8.88
....
2/1/05 ABC 4.25
2/1/05 DEF 6.41
2/1/05 XYZ 10.82
2/8/05 ABC 7.22
2/8/05 DEF 1.12
2/8/05 XYZ 9.99

Less Frequent:
12/31/04 ABC 52.5
12/31/04 DEF 31.9
12/31/04 XYZ 44.4
1/31/05 ABC 50.5
1/31/05 DEF 30.9
1/31/05 XYZ 49.4

My goal would be to have
the weekly data point
divided by the most
recent
month end point for each

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week.

1/5 05 ABC 5.25 / 52.5
1/5/05 DEF 2.41 / 31.9
1/12/05 ABC 4.25 / 52.5
1/12/05 DEF 3.12 / 31.9
2/1/05 ABC 4.25 / 50.5
2/1/05 DEF 6.41 / 30.9
2/8/05 ABC 7.22 / 50.5
etc.....

Is something like this
feasible with some type of
subquery? Do I
need
a
table where these repeating
dates are set up?

Your help is greatly
appreciated.

Thank you.

kohai