

## Re: Need help to find most popular records in 2 related Tables

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*Source:*

<http://www.tech-archive.net/Archive/Access/microsoft.public.access.queries/2005-12/msg01783.html>

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- *From:* "Mota" <[tavassoli68@xxxxxxxxxxxx](mailto:tavassoli68@xxxxxxxxxxxx)>
  - *Date:* Fri, 23 Dec 2005 06:21:49 +0330
- 

Ok, will do so.

Thank you for all ur helps.

"Tom Ellison" <[tellison@xxxxxxxxxxxx](mailto:tellison@xxxxxxxxxxxx)> wrote in message  
[news:uRtlNsoBGHA.1092@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:uRtlNsoBGHA.1092@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

> Dear Mota:

>

> You may notify me by email if you wish. Though it earns me a lot of spam,  
> I have continued to post with my real email address here. Since so few do  
> so, it may be that the volume of spam will decrease some day.

>

> Be advised I will probably only read the messages you post in this group,  
> and answer here. Do not send me technical details in such an email, just  
> notification. Please include the title of your original post, the  
> newsgroup to which you posted ("queries" would be sufficient in the case  
> of this one), and the date/time of the original post. I can find it most  
> quickly that way.

>

> I am currently experiencing the delight of the imminent failure of my boot  
> drive (I have 6 HDs in this computer, but it would be the boot drive that  
> is failing). I'm likely to get pretty scarce here if I have to rebuild  
> the system unless it fails completely on a day when I have plenty of time  
> to work on it. Sympathy cards welcome! There is also some question of  
> how I will catch up if and when the total failure happens (I'm going to  
> screw around with the manufacturer's software first to try to bring it  
> back on-line, but not until I have a replacement drive lined up and ready  
> to go). All this takes time, especially trying to recover important,  
> volatile files from a system drive. I have backups, but this doesn't help  
> so much with email and newsgroup communications that change every hour.  
> Oh, joy. Maybe I'll take the extra time to make my system drive mirrored  
> this time. Yuck!

>

> I do look at all new posts in this newsgroup. I don't follow threads in  
> which I have not been involved, but rarely miss entirely a post in  
> response to one of my own (except when I totally lose track due to a HD  
> crash or similar tragedy). The delay in getting my responses is more  
> likely to be due to my schedule and just how much time I can dedicate to

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> posting here. I have to limit considerably just how many "open" posts I  
> have, or I'd be swamped. Once I first answer a post, I realize others may  
> bypass that post to avoid duplication of effort. So that actually gives  
> me a small feeling of obligation to the original poster to continue with  
> him to some conclusion. So, normally, just posting again in here will be  
> as effective as anything. But with an imminent crash in view, it is quite  
> possible I'll lose track of what I've read and what I've not read, having  
> to start over with a new system showing all my posts as "unread". So,  
> please feel free to email me if I seem to have lost track of you. I will  
> often have 10-15 threads in which I'm involved, and other than the ability  
> to track which posts I've read and which I've not read, I cannot easily  
> track them.

>

> Tom Ellison

>

>

> "Mota" <tavassoli68@xxxxxxxxxxxx> wrote in message  
> [news:uIrY\\$hdBGHA.1124@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:uIrY$hdBGHA.1124@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

>> Ok;I'll try it.

>> But this may last up to a few days (specially designing Step2 query),and  
>> im afraid i miss you in the group.I wish i had an email from u,or another  
>> way to inform u of my posting the SQLs.

>> Thanks again for your help.

>>

>> "Tom Ellison" <tellison@xxxxxxxxxxxx> wrote in message  
>> [news:u\\$IVhJbBGHA.1032@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:u$IVhJbBGHA.1032@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

>>> Dear Mota:

>>>

>>> I believe you have made your problem much clearer to me. And I do hope  
>>> I may be of assistance.

>>>

>>> The principle of my response will remain the same. Here's an outline  
>>> you may want to reference in order to follow along, and to correct any  
>>> misconceptions I might have about the details of your setup:

>>>

>>> 1. Have a totals query by Physician/Drug, showing the correct number of  
>>> instances in which the Physician prescribed that drug. This will return  
>>> only those columns: Physician/Drug/RepetitionCount.

>>>

>>> 2. Create a ranking query on the above, to rank the RepetitionCount.  
>>> Apply a "tie breaker" if desired so the ranking values are unique.

>>>

>>> 3. Write a query based on #2 above that filters out those ranked > 8.

>>>

>>> 4. Add whatever other details are needed in your final result.

>>>

>>> Could you attempt the above at this time? Please try to get through at  
>>> least step #1 above. Post the SQL of your query and some of its  
>>> results. I will then attempt to assist you from that point.

>>>

>>> I believe this approach will minimize the effort required by each of us,

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>>> and maximize your learning opportunity.  
>>>  
>>> Tom Ellison  
>>>  
>>>  
>>> "Mota" <tavassoli68@xxxxxxxxxxxx> wrote in message  
>>> [news:eggL26aBGHA.1312@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:eggL26aBGHA.1312@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)  
>>>> Dear Tom;  
>>>> I hope u check for my reply.Because,regarding ur design,u have a good  
>>>> clue for my problem.But there is some misunderstandings in it that  
>>>> returns to one of ur questions.So,i have to first answer ur questions:  
>>>> "Would you be having multiple drugs on one prescription?"  
>>>> Yes,most of prescriptions have more than 1 medicine.In addition,2  
>>>> tables are related thru field PID,not PhysicianID.The childTBL has not  
>>>> a PhysicianID field at all.What u commented can find 8 most repeated  
>>>> DRUGS of a doctor.But a Prescription is composed of 1 or MORE drugs.And  
>>>> we want PRESCRIPTIONS that are most common for a Doctor.Here are some  
>>>> sample data.  
>>>> For ParentTBL:  
>>>> PID PhysicianID TotalPrice DOP .....

>>>> 1	122	60\$	11.01.05
>>>> 2	256	85\$	11.01.05
>>>> 3	122	140\$	11.01.05
>>>> 4	122	85\$	11.01.05
>>>> 5	256	75\$	11.01.05

>>>>  
>>>> This shows that in 1 day,we had 5 Prescriptions,all from 2  
>>>> Doctor.Medicines of this Prescriptions are saved in ChildTBL as follow:  
>>>> PID dID dNu

>>>> 1	5	10
>>>> 1	14	20
>>>> 2	84	20
>>>> 3	5	10
>>>> 3	14	20
>>>> 4	5	10
>>>> 4	14	20
>>>> 5	84	20

>>>>  
>>>> As u see,our Physicians have repeated (from point of their medicine)  
>>>> Prescriptions.Prescriptions 1,3 and 4 are just alike,Prescribed by a  
>>>> Physician with ID=122.Prescriptions 2 and 5 also are alike prescribed  
>>>> by another doctor with ID=256.So we can name this repeated  
>>>> Prescriptions as Sample1 for doctor 122,and sample1 for doctor 256.Now  
>>>> we want to find some another most repeated Prescriptions and name them  
>>>> as another samples for each Physician,and put this samples in a  
>>>> saparate table (SamplesTBL).Than I can refer to this table thru my  
>>>> code,after a user enters a PhysicianID,and show him/her a list of most  
>>>> popular Prescriptions that this doctor usually prescribes.Now this user  
>>>> can click on 1 sample (that matches the drugs of the current  
>>>> Prescription,even orderingly).This click adds the selected sample to  
>>>> our ChildTBL (where we store the drugs of each prescription),instead of

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>>>> entering the current Prescription's drugs manually.This is my goal of  
>>>> making this table.So the SamplesTBL i want to fill out using the  
>>>> requested query,would be something like this:  
>>>>  
>>>> PhysicianID SampleNo dID FrequencyOfThisSample  
>>>> 122 1 5 3  
>>>> 122 1 14 3  
>>>> 256 1 84 2  
>>>>  
>>>> Based on the sample data,we faced to 1 sample (Repeated Prescriptions)  
>>>> for each one of the doctors.Obviously,we can find more samples (my  
>>>> favorite is 8 sample for each Doctor),when we UNION Parent and Child  
>>>> tables of the last 3 months,and run ur commented query on it.  
>>>> I hope i could describe what im looking for.Thank you for ur time and  
>>>> attention so much.  
>>>>  
>>>>  
>>>> "Tom Ellison" <tellison@xxxxxxxxxxxx> wrote in message  
>>>> news:OOzI9BHBGHA.4076@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx  
>>>> Dear Mota:  
>>>>  
>>>>> The general approach would be to start with a correlated subquery that  
>>>>> returns the TOP 8 prescriptions for the current physician. Place this  
>>>>> in an IN clause and build that into your filter.  
>>>>>  
>>>>> Let's look at how to build this up.  
>>>>>  
>>>>> SELECT TOP 8 [Drug ID]  
>>>>> FROM ChildTBL  
>>>>> WHERE PhysicianID = XXXXX  
>>>>> GROUP BY PhysicianID, DrugID  
>>>>> ORDER BY COUNT(\*) DESC  
>>>>>  
>>>>> I used COUNT instead of sum, as you said you wanted the 8 most  
>>>>> "repeated" prescriptions. For testing, put in an actual PhysicianID.  
>>>>> Next, we're going to correlate on PhysicianID.  
>>>>>  
>>>>> SELECT C.PhysicianID, DID, DNu  
>>>>> FROM ParentTBL P  
>>>>> INNER JOIN ChildTBL C  
>>>>> ON C.PhysicianID = P.PhysicianID  
>>>>> WHERE DID IN(  
>>>>> (SELECT TOP 8 DID  
>>>>> FROM ChildTBL C1  
>>>>> WHERE C1.PhysicianID = P.PhysicianID  
>>>>> GROUP BY PhysicianID, DID  
>>>>> ORDER BY COUNT(\*) DESC))  
>>>>>  
>>>>> I'm not sure I've followed all your column naming. In fact, I'm not  
>>>>> sure I understand your table design. Would you be haiving multiple  
>>>>> drugs on one prescription? If not, how would it be you have multiple

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>>>>> child rows for a single parent row. Does the parent row represent one  
>>>>> prescription?  
>>>>>  
>>>>> Anyway, the principle of what I'm trying to show you is there. With  
>>>>> any luck, what I've coded may be fairly close. To be sure, you may  
>>>>> need to study what I've done and figure out how it's supposed to work.  
>>>>> You can possibly then fix it up for what you want.  
>>>>>  
>>>>> Please let me know if this helped. If it's too far off, please give  
>>>>> some sample data and the desired results, so I can figure it out  
>>>>> better.  
>>>>>  
>>>>> Tom Ellison  
>>>>>  
>>>>>  
>>>>> "Mota" <tavassoli68@xxxxxxxxxxxx> wrote in message  
>>>>> [news:e6bXjtABGHA.2356@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:e6bXjtABGHA.2356@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)  
>>>>> Hi;  
>>>>>> In a medical system we store all prescriptions in 2 related  
>>>>>> tables.The  
>>>>>> parent Tbl has Fields like:PID (or PrescriptionID that is a unique  
>>>>>> Long  
>>>>>> Number assigned to each new Prescription,and is the table's PK and  
>>>>>> the ONE  
>>>>>> side of Relation),PhysicianID(that is the prescriber of this  
>>>>>> Prescription.we  
>>>>>> have all Doctors and their unique IDs in another table),DOP(or Date  
>>>>>> Of  
>>>>>> Prescription),TotalPrice,PatientName and so on.The child table in the  
>>>>>> other  
>>>>>> hand contains fields:RecID(a unique autonumber field as the  
>>>>>> PK),PID(or  
>>>>>> PrescriptionID that is the foreignn key or MANY side of this  
>>>>>> relation),DID(Drug ID that shows each medicine of Prescription with  
>>>>>> this PID  
>>>>>> in each record),DNu(quantity of this medicine),RetailPrice and so on.  
>>>>>> After a few months we found that most prescribers have many repeated  
>>>>>> Prescriptions,relative to their speciality.For example a physician  
>>>>>> with  
>>>>>> ID=122 may have up to 70% of his Prescriptions,just like one of the 8  
>>>>>> sample  
>>>>>> we have already made from most frequented Prescriptions of him.  
>>>>>> So i need help to make one or more query to find 8 most frequented  
>>>>>> Prescription for each physician,if any.Then i will run this query  
>>>>>> system at  
>>>>>> the end of each month and put this list of Prescriptions in a  
>>>>>> separate  
>>>>>> table.  
>>>>>> Hence,after a user enters PhysicianID in the form,program shows 8  
>>>>>> most  
>>>>>> repeated Prescriptions of this Doctor.Now user may select the

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• **References:**

- ◆ **Need help to find most popular records in 2 related Tables**  
◇ From: Mota
  - ◆ **Re: Need help to find most popular records in 2 related Tables**  
◇ From: Tom Ellison
  - ◆ **Re: Need help to find most popular records in 2 related Tables**  
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◇ From: Mota
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◇ From: Tom Ellison
- Prev by Date: **Re: Calculated field question**
  - Next by Date: **Re: Rolling Differences**
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  - Next by thread: **Re: Can I join on both lower case and upper case in the primary key?**
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