

Re: Updatable Query (trying to edit records)

Source:

<http://www.tech-archive.net/Archive/Access/microsoft.public.access.queries/2008-11/msg01108.html>

- *From:* "david" <david@xxxxxxxx>
 - *Date:* Mon, 17 Nov 2008 17:30:21 +1100
-

Yes, I missed the simpler explanation.

If you don't need the whole thing updatable, you can change the query so some fields are lookup fields. Otherwise you will have to use an approach which allows you to update the records separately

(david)

"Robin" <Robin@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message <news:2C9EC2F7-5CF3-44B5-85C3-607B18FB57DB@xxxxxxxxxxxxxxxxxxxx>

david,

Thanks for your input. As it stands, each Assignment can have ONLY ONE staff. (Well, for now anyway.) The only reason the Staff table is involved

(in this query) is to get the BillRate of each staff to multiply by the CABudgetHrs to arrive at the budgeted (billable) \$ for that assignment.

You

are correct in that each staff will have multiple assignments, but getting the bill rate is the only applicable reason for having the Staff table in this query. I believe the confusion may be the understanding of my structure. Each Client (ClientID – Client table) has multiple Engagements (EngagementID – Engagement table) recurring yearly (EngagementYr – also in Engagement table). Each Engagement will have multiple Assignments (AssignmentID – Assignment table) and further, each Assignment has multiple

Segments (SegmentID – Segment table). But for this query Segments do not come into play.

```

ClientTbl EngagementTbl AssignmentTbl SegmentTbl
ClientID---ClientID-----ClientID-----ClientID
EngagementID-----EngagementID-----EngagementID
EngagementYr-----EngagementYr-----EngagementYr
AssignmentID-----AssignmentID

```

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SegmentID

My query returns (as I wish it to) ONE "RECORD" for each Engagement showing the multiple Assignments with their billable amounts across the row and totalling in the far right column. Even when I take the Staff table out of the query completely and just try to present it in the way I want but without computations, it still becomes un-updateable as soon as I add a second Assignment to the "record".

Any suggestions would be appreciated.

Thank you very much for your response.
Robin

"david" wrote:

If each assignment can have several staff, and each staff can have several assignments, then you can't have an updatable query.

If it is possible to put staff and assignments into the table that way it doesn't work. It doesn't matter that actually you only have one staff and one assignment entered, it still doesn't work.

This is a restriction of the Jet database engine. Jet allows you to update multiple tables only when it can identify by design which records are updated, which is only when there is a tree structure, no loops.

You can sometimes work around this by using DLOOKUP or correlated subqueries, instead of a join, so that there is only one table in your query, plus some read-only fields.

Originally, other database systems couldn't make updatable joined queries at all, and used update triggers to let the DBA program referential integrity constraints and separate updates for each table.

Those other database systems have long since been extended to support updatable joined queries and declarative referential integrity and integrated login and the new ANSI SQL and , but while they picked up Jet features, Jet stood still.

Which is to say that, if you want to update multiple tables, and Jet can't work out which records to update, you will have to either use a SQL (Express) back end with stored procedures, or a form.

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(david)

"Robin" <Robin@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:DF482944-1466-4D77-B9DE-9FA89747FAE9@xxxxxxxxxxxxxxxxxxxx

THIS IS PROBABLY TOO MUCH TO ASK BUT: I'm
trying to design a query to
view
data and be able to edit that data. I know there are restrictions
on
that,
but I need to design this so as to not violate those
restrictions. I
have
two tables ClientAssignment and Staff. The
ClientAssignment table uses
four
fields as the Primary Key (ClientID, EngagementID,
EngagementYr,
AssignmentID) and a field to link to the Staff table
(CAStaffID). The
Staff
table uses StaffID as the Primary Key.

Basically I'm trying to make a datasheet "read across" by
Assignment
ID
so
that the PREP BillRate x BudgetHrs + REV1 BillRate x
BudgetHrs + REV2
BillRate x BudgetHrs = Total Budget across 1 line for each
Client
Engagement.

I've written the query two different ways but neither work.

First attempt which shows me the data as I like but is not
updatable:

```
SELECT ClientAssignment.ClientID,  
ClientAssignment.EngagementID,  
ClientAssignment.EngagementYr,  
ClientAssignment.AssignmentID,  
ClientAssignment.CAStaffID,  
ClientAssignment.CABudgetHrs,  
Staff.BillRate,  
CCur([ClientAssignment.CABudgetHrs]*[Staff.BillRate])  
AS Expr1,
```

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```
ClientAssignment_1.AssignmentID,
ClientAssignment_1.CAStaffID,
ClientAssignment_1.CABudgetHrs, Staff_1.BillRate,
CCur([ClientAssignment_1.CABudgetHrs]*[Staff_1.BillRate])
AS Expr2,
ClientAssignment_2.AssignmentID,
ClientAssignment_2.CAStaffID,
ClientAssignment_2.CABudgetHrs, Staff_2.BillRate,
CCur([ClientAssignment_2.CABudgetHrs]*[Staff_2.BillRate])
AS Expr3,
CCur([Expr1]+[Expr2]+[Expr3]) AS Expr4
FROM ((Staff INNER JOIN ClientAssignment ON
Staff.StaffID =
ClientAssignment.CAStaffID) INNER JOIN
(ClientAssignment AS
ClientAssignment_1 INNER JOIN Staff AS Staff_1 ON
ClientAssignment_1.CAStaffID = Staff_1.StaffID) ON
(ClientAssignment.EngagementYr =
ClientAssignment_1.EngagementYr) AND
(ClientAssignment.EngagementID =
ClientAssignment_1.EngagementID) AND
(ClientAssignment.ClientID =
ClientAssignment_1.ClientID)) INNER JOIN
(ClientAssignment AS ClientAssignment_2 INNER JOIN
Staff AS Staff_2 ON
ClientAssignment_2.CAStaffID = Staff_2.StaffID) ON
(ClientAssignment.EngagementYr =
ClientAssignment_2.EngagementYr) AND
(ClientAssignment.EngagementID =
ClientAssignment_2.EngagementID) AND
(ClientAssignment.ClientID =
ClientAssignment_2.ClientID)
WHERE (((ClientAssignment.AssignmentID)="PREP")
AND
((ClientAssignment_1.AssignmentID)="REV1") AND
((ClientAssignment_2.AssignmentID)="REV2"));
```

The second attempt, I tried doing three separate queries and then using them in the "top query". EACH INDIVIDUAL QUERY ALLOWS UPDATES but when I use more than one in the "top" query, it becomes un-updatable.

I have three queries (qBudgetWSa, b, c) with this design:

```
SELECT ClientAssignment.ClientID,
ClientAssignment.EngagementID,
ClientAssignment.EngagementYr,
```

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```
ClientAssignment.AssignmentID,  
ClientAssignment.CAStaffID,  
ClientAssignment.CABudgetHrs,  
Staff.BillRate,  
CCur([CABudgetHrs]*[BillRate]) AS Expr1  
FROM Staff RIGHT JOIN ClientAssignment ON  
Staff.StaffID =  
ClientAssignment.CAStaffID  
WHERE (((ClientAssignment.AssignmentID)="PREP"));
```

```
SELECT ClientAssignment.ClientID,  
ClientAssignment.EngagementID,  
ClientAssignment.EngagementYr,  
ClientAssignment.AssignmentID,  
ClientAssignment.CAStaffID,  
ClientAssignment.CABudgetHrs,  
Staff.BillRate,  
CCur([CABudgetHrs]*[BillRate]) AS Expr1  
FROM Staff RIGHT JOIN ClientAssignment ON  
Staff.StaffID =  
ClientAssignment.CAStaffID  
WHERE (((ClientAssignment.AssignmentID)="REV1"));
```

```
SELECT ClientAssignment.ClientID,  
ClientAssignment.EngagementID,  
ClientAssignment.EngagementYr,  
ClientAssignment.AssignmentID,  
ClientAssignment.CAStaffID,  
ClientAssignment.CABudgetHrs,  
Staff.BillRate,  
CCur([CABudgetHrs]*[BillRate]) AS Expr1  
FROM Staff RIGHT JOIN ClientAssignment ON  
Staff.StaffID =  
ClientAssignment.CAStaffID  
WHERE (((ClientAssignment.AssignmentID)="REV2"));
```

But when I JOIN any two of them (and I've tried EVERY combination of JOIN) it no longer is updatable.

```
SELECT qBudgetWSa.ClientID,  
qBudgetWSa.EngagementID,  
qBudgetWSa.EngagementYr, qBudgetWSa.AssignmentID,  
qBudgetWSa.CAStaffID,  
qBudgetWSa.CABudgetHrs, qBudgetWSa.BillRate,  
qBudgetWSa.Expr1,  
qBudgetWSb.AssignmentID, qBudgetWSb.CAStaffID,  
qBudgetWSb.CABudgetHrs,  
qBudgetWSb.BillRate, qBudgetWSb.Expr1  
FROM (qBudgetWSa INNER JOIN qBudgetWSb ON
```

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```
(qBudgetWSa.EngagementYr =  
qBudgetWSb.EngagementYr) AND  
(qBudgetWSa.EngagementID =  
qBudgetWSb.EngagementID) AND (qBudgetWSa.ClientID  
=  
qBudgetWSb.ClientID))  
INNER JOIN qBudgetWSc ON  
(qBudgetWSa.EngagementYr =  
qBudgetWSc.EngagementYr)  
AND (qBudgetWSa.EngagementID =  
qBudgetWSc.EngagementID) AND  
(qBudgetWSa.ClientID = qBudgetWSc.ClientID);
```

Whew! Can this even be accomplished?

Thanks

Robin