

Re: filtering reports

Source:

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From: Allen Browne (*AllenBrowne_at_SeeSig.Invalid*)

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Filtering subreports is always fun.

In the simplest case, the LinkMasterFields/LinkChildFields automatically limit the subreport so it contains the right records. Nothing else needed. There are lots of cases where that's not enough.

The next level is to use a form as you suggest, and in the query that feeds the subreport, refer to the controls on the form in the Criteria under the various fields, e.g.:

```
[Forms]![TheForm]![DateOfService]
```

However, where these are optional the WHERE clause of the query starts to get really messy and inefficient.

The next level is to dynamically create the SQL string in VBA, using only those controls on the form that have a value. Then write this to the SQL property of the subreport's QueryDef before opening the main report. This kind of thing:

```
Dim strSql As String
Dim lngLen As Long
Const strcStub = "SELECT * FROM MySubReportTable "
Const strcTail = " ORDER BY [Last Name];"

If not IsNull(Me.DateOfService) Then
    strSql = strSql & "([Date Of Service] = " & _
        Format(Me.DateOfService, "\#mm\dd\yyyy\#") & ") AND "
End If

If Not IsNull(Me.LastName) Then
    strSql = strSql & "([Last Name] = "" & Me.LastName & """) AND "
End If

'etc for other controls.

lngLen = Len(strSQL) - 5 'without trailing " AND "
If lngLen >= 0 Then
    strSql = "WHERE (" & Left$(strSql, lngLen) & ")"
End If
```

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```
strSql = strcStub & strSql & strcTail
```

```
dbEngine(0)(0).QueryDefs("MySubreportQuery").SQL = strSql  
DoCmd.OpenReport "MyReport", acViewPreview
```

In Access 2002 and 2003, you can build up a description string at the same time as you are building up the Where clause, pass it to the main report in the OpenArgs of the OpenReport, and display in on the header of the report.

```
--  
Allen Browne - Microsoft MVP. Perth, Western Australia.  
Tips for Access users - http://allenbrowne.com/tips.html  
Reply to group, rather than allenbrowne at mvps dot org.  
"Mark R" <anonymous@discussions.microsoft.com> wrote in message  
news:041301c48b10$ed381630$a501280a@phx.gbl...  
> my report has a main source table and several sub reports  
> with their own source tables. another similar report has  
> a query as its source and the query pulls from several  
> tables  
>  
> I want the user to be able to run the report filtering on  
> any combination of several fields from the parent main  
> source table.  
>  
> 1. date of service  
> 2. last name  
> 3. first name  
> 4. type of service  
> 5. id  
>  
> 1 and 4  
> 1, 2 and 4  
> etc  
>  
> what would you suggest?  
>  
> I thought I could have a table with one record with these  
> 5 fields and a form with these fields on it, after the  
> user fills out which fields to filter on, visible=false,  
> hide it, and then  
>  
> for the report based on the tables, put on the filter  
> property line  
> [date of service] = forms!theform!dateofservice  
> and  
> [last name] = forms!theform!lastname]  
> and  
> etc  
>  
> and likewise in the query use similar bracketing in the  
> criteria on design view  
>  
> but these all do not seem to work.
```