

# Re: How to make your report run faster

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<http://www.tech-archive.net/Archive/Access/microsoft.public.access.reports/2005-12/msg01149.html>

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- *From:* "Larry Linson" <bouncer@xxxxxxxxxxxxxx>
  - *Date:* Thu, 29 Dec 2005 16:49:27 -0600
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"A.Q" <AQ@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote

> - The DB server is Oracle.

I've done no work with Oracle as the Server DB, so I won't have any "Oracle-specific" tricks.

> and I use ODBC to connect to the server. And use DAO

I've done a good deal of work with Access clients, using DAO and ODBC.

> - I used form with listbox -multiselect option - to display 6 fields -id, > name, creator, date... etc (7-8K records).

I can't imagine using one listbox to display multiple fields. I can imagine using a continuous forms view Form with multiple Controls, one per Field.

It's a long list so I have 3 text

> box 1 check box and 1 combobox to do the filter. User have the option to

> filter to the site they know or want. or just click the site(s) in listbox.

> if they click the listbox then "Preview report" button is enabled. then if

> they click "Preview report" button, the report will display. The reasons I

> have to do 6 subreports are we need to have all the multi records. and each

> record have to display to 1 page or 2 max, each report have to be in a new

> page... (The whole application I have to link at least 40 tables together & 2

> views).

> My main query is more then 10pages and it use for main report. each

> subreport have 1 query. and relative by siteid.

I also have never come close to using a Query whose SQL runs for anywhere \_near\_ ten pages. You are doing a lot of work.

## Re: How to make your report run faster

In my experience (though never with Oracle), the ODBC drivers we used seemed to do a reasonable job of not altering the SQL too drastically before sending it on. The ODBC drivers we used were from InterSolv (which I understand has now been acquired or changed its name). On the other hand, in older versions of Access, the Jet database engine might decide that the query was too complex, and retrieve all or most of the information to do the selection on the user's machine. That is when we resorted to creating Views to force that work to be done on the server.

- > the code under "preview report" button is
- > Set db = CurrentDb
- > Set qd = db.QueryDefs("SelectionALL")
- > qd.SQL = GetSQL()
- > DoCmd.OpenReport "SelectionALL", acViewPreview
- >
- > and there is a function GetSQL, which will go thru the listbox and pick
- > the
- > site id and put in an variant name sList (can be 1 siteid or 2,3.. siteid)
- > to
- > make siteid IN (" & sList & ") " like that.
- > Ok, those are what I did, and work great. but slow...
- > Well, since my first time with VBA and access: I'm not understand how it
- > works, so

The fact that your query is doing a lot of work concerns me. That means that you are doing much different kind of applications than I have ever done. I had a colleague whose work required similarly complex SQL and, when we discussed what he was doing, yes, our applications were very different. So, I know there are cases where that is required. I also know there are cases where the database design itself forces complexity that could be avoided.

- > -I was try to make the old queries for subreport, define them as pass-thru
- > queries, then, create new queries that select from those pass-thru. But it
- > seem not working when I call the main report.

When you use Reports embedded in a subreport control and the LinkMasterFields and LinkChildFields to select, you are doing "filtering"... reading more records, but displaying only those that match. This, too, will be less efficient. Unfortunately, you can't reset the RecordSource for the Report embedded in the Subreport for each Record. But, as I pointed out, the Subreport functionality is such that filtering is done locally, on the user's machine.

I am not aware that you cannot use Pass-Thru Queries as the RecordSource of a Report embedded in a Subreport Control. I haven't tried it, and haven't tried using a Pass-Thru Query as the data source of a local Query... if the local query is where the record selection is being done, then all the data may have had to be transferred across the network already.

- > -How do I create view from the application?

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## Re: How to make your report run faster

I've always created Views using the functionality of the Server (in most cases where I was doing so, that was Informix). As far as I know, the only situation where you might be able to create a View from the Access client application would be in an Access ADP/ADE, which can only be used with Microsoft SQL Server, not any other server DB.

> -Now I'm thinking of passing the sList to all the queries of each subreport

> (?) Haven't reduce the speed yet... at least 30-45seconds for 1 site!

One question that I have not asked is this... "slow" compared to what? Do you have an example of similar amounts of work being done much faster using a different front-end? Can you execute your SQL directly from an Oracle UI to get a sense of timing -- that is, whether the delay is Oracle or whether it is in the interface between Oracle and Access? Do you have recording software that is logging the information passed between Jet/ODBC and Oracle? That is... retrieve a record, then retrieve all the records that would be on the associated six subforms.

The only way to really be successful at speeding up the application is to know where the delay occurs and what may be the cause, so you can address them. Otherwise, you may "play" with factors that really have very little influence on the response time.

But, because the retrieval can be forced to be in the server, it certainly would be worthwhile to look at doing the report without subreports, using grouping on what are now your main records, and detail on the related records.

Best of luck with your project.

Larry Linson  
Microsoft Access MVP

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• ***Follow-Ups:***

◆ ***Re: How to make your report run faster***

◇ *From: A.Q*

• ***References:***

◆ ***Re: How to make your report run faster***

◇ *From: Larry Linson*

◆ ***Re: How to make your report run faster***

◇ *From: A.Q*

• Prev by Date: ***Re: Vertical Alignment***

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