

Re: Datasets – Best approach to use?

Source: <http://www.tech-archive.net/Archive/VB/microsoft.public.vb.database/2005-01/0195.html>

From: William \ (Bill) Vaughn (*billvaRemoveThis_at_nwlink.com*)

Date: 01/14/05

Date: Thu, 13 Jan 2005 23:03:11 -0800

That's how I write all my books—how to transition from one technology to the next.

Hope it helps.

--

William (Bill) Vaughn
Author, Mentor, Consultant
Microsoft MVP
www.betav.com

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"Mitchell Vincent" <mitchell.vincent@gmail.com> wrote in message
news:OLleSgb%23EHA.2316@TK2MSFTNGP15.phx.gbl...
> Personally, I'm writing desktop applications so it is all Windows forms.
>
> The book looks good, I'll pick up a copy for sure.. It does seem odd
> though that every book I've read on .NET is written from the point of view
> of someone coming from pre-.NET up. I guess that will change over time,
> but a book saying "this is how you do it" verses "this is how you do it in
> ADO, and now how you do it in .NET, and why they changed it" would be much
> better for people like myself that are veteran programmers (in
> non-Microsoft languages) but new to .NET programming. Please, if you have
> any suggestions let me know!
>
> Thanks for the reply!
>
> --
> - Mitchell
>
> "William (Bill) Vaughn" <billvaRemoveThis@nwlink.com> wrote in message
> news:OeWLVjs%23EHA.1300@TK2MSFTNGP14.phx.gbl...
>> It really depends on the architecture of the application. Windows forms,
>> ASP, Web Service, etc all have different persistence strategies and
>> limitations.
>>
>> --
>> _____
>> William (Bill) Vaughn
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microsoft.public.vb.database: Re: Datasets – Best approach to use?

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>> _____
>>
>> "Dave" <Dave@discussions.microsoft.com> wrote in message
>> news:71F8DC4C-58A4-49EE-B2E7-7D9466F08C5A@microsoft.com...
>>> Thanks for an excellent reply, Bill. I also learned some things from the
>>> sample chapter of your book. Obviously worth buying!
>>>
>>> I am still trying to understand the best place to declare the
>>> DataAdapter
>>> and DataSet and the life cycle of each. Will continue to experiment.
>>>
>>> Thanks again,
>>>
>>> Dave.
>>>
>>> "William (Bill) Vaughn" wrote:
>>>
>>>> If the books told you to mirror your data (replicate would be better as
>>>> mirroring makes everything backwards), then you got the wrong books.
>>>> This is
>>>> a widely discussed issue. First, when working with toy databases where
>>>> there
>>>> are a few tables and not many rows (a few thousand at most), then it
>>>> does
>>>> not make much difference what you do--especially if there is only one
>>>> user.
>>>> When you're trying to implement a serious DBMS where many people need
>>>> to
>>>> share the data, simply building a DataSet that contains the contents of
>>>> a
>>>> table won't work--not for long. It simply won't scale. Using ASP (or
>>>> ASP.NET) makes the problem worse. In this case you're dealing with
>>>> DataSets
>>>> that are created and (by default) destroyed as soon as the page renders
>>>> the
>>>> HTML back to the client (browser). If you try to save these large
>>>> DataSet in
>>>> the Session state (or wherever), you'll choke the system before long.
>>>> No, the approach to take is to create a DataSet that contains the
>>>> information that the user needs NOW and work from there. When you
>>>> create a
>>>> DataAdapter, you can create action commands (UPDATE, INSERT, DELETE)
>>>> into
>>>> its infrastructure so that when you execute Update these commands make
>>>> changes to the database. No, the bound controls won't call Update--you
>>>> have
>>>> to do that in your code. In an ASP application the bound controls also
>>>> won't
>>>> post the changes to the server-side DataSet--you'll have to do that in
>>>> your
>>>> code. The ONLY thing bound controls will do in ASP is to move the data
>>>> from
>>>> the inbound DataSet (DataTable) to the control so you can see the rows.
>>>>
>>>> I discuss these issues in far more depth in my book and so does David
>>>> Sceppa.
>>>>
>>>> --
>>>> _____
>>>> William (Bill) Vaughn
>>>> Author, Mentor, Consultant
>>>> Microsoft MVP
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>>>>
>>>> "Dave Stumbles" <Dave Stumbles@discussions.microsoft.com> wrote in
>>>> message
>>>> news:D8C8A27E-4C43-4E96-8153-EDC2D7ECBF56@microsoft.com...
>>>> >I am writing a VB.NET 2003 web application to operate on my company's
>>>> > intranet. It accesses data in an SQL Server database. I have
>>>> > developed a
>>>> > couple of pages that display data successfully. However, there is one
>>>> > area
>>>> > that I am having trouble getting a handle on, despite purchasing a
>>>> > couple
>>>> > of
>>>> > Wrox books.
>>>> >
>>>> > Up until now, I have used a whole lot of data adapters and datasets
>>>> > to be
>>>> > able to display my information. The data is stored in a very
>>>> > hierarchical
>>>> > structured database. I now want to be able to edit, delete and add
>>>> > new
>>>> > records to most of these tables. The data would be edited in
>>>> > datagrids.
>>>> >
>>>> > I have seen some information that indicates that having a
>>>> > 'mirror-image'
>>>> > of
>>>> > the original database stored in a dataset is the way to go, ie this
>>>> > is
>>>> > retrieved from the database, then modified and then sent back.
>>>> >
>>>> > My questions are:
>>>> >
>>>> > Is it best to have a single large dataset mimicking the tables and
>>>> > table
>>>> > structure in the database?
>>>> >
>>>> > If so, how is this achieved effectively? I only seem to be able to
>>>> > bring
>>>> > across a table at a time.
>>>> >
>>>> > Any help would be greatly appreciated.
>>>> >
>>>> > Dave.
>>>> >
>>>>
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>>
>
>
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