

Re: .NET data provider or OLEDB provider?

Source: <http://www.tech-archive.net/Archive/Data/microsoft.public.data.oledb/2005-11/msg00004.html>

- *From:* "Mark" <swozz_@xxxxxxxxxxxxx>
 - *Date:* Mon, 31 Oct 2005 22:16:42 -0000
-

Thanks again for your help Bob, you have given me a couple of avenues to investigate – I especially like the OLEDB integration with SQL Server idea, should keep me busy for a while!

--
Much appreciated
Mark

"Bob Beauchemin" <no_bobb_spam@xxxxxxxxxxxxx> wrote in message news:%23orKZHm3FHA.3844@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx

>I don't see where you see a built-in query engine. There isn't one that I'm
>aware of. Please quote me a sentence on that webpage that mentions it. In
>the OLE DB architecture it is *possible* to write a Query Engine as a
>service provider (as appears in the diagram), but there's not one built-in.
>OLE DB providers don't have to support SQL (or any query language) however,
>the Command object (cotype) is optional. If you support tables but not
>queries, you can choose to implement only IOpenRowset interface on the
>Session cotype. Then your "command" to get a table is simply "tablename".
>
> There are third party tools that provider SQL parsing IIRC, however.
>
> The closest OLE DB comes to this is that, if you host your provider as a
> SQL Server linked server, SQL Server can handle the queries. See the
> "Problem: getting an index provider to work..." for one of the limitations
> of this approach.
>
> There is the OLE DB Simple Provider architecture, but folks outgrow that
> quickly, its fairly limited in scope.
>
> If you send me direct mail (email address deducable from address in this
> message) perhaps we could discuss it.
>
> Cheers,
> Bob Beauchemin
> <http://www.SQLskills.com/blogs/bobb>
>
>
> "Mark" <swozz_@xxxxxxxxxxxxx> wrote in message
> news:Oicuib13FHA.128@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Re: .NET data provider or OLEDB provider?

>> Thanks for your reply Bob,

>>

>> I have had a preliminary look at both the .NET provider and OLEDB

>> provider. I agree that the .NET provider would be much simpler, but it

>> looks like I would have to write a query processing engine for the

>> Command object. I have noticed that with OLEDB there is already a Query

>> Engine that can consume the provider

>>

>> (http://msdn.microsoft.com/library/default.asp?url=/library/en-us/oledb/htm/oledbprovmicrosoft_ole_db_providers_ov

>>

>> If this is the case, then in theory at least I would only have to write

>> (or rather port) the data access methods and then plug them into the

>> existing OLEDB query engine. With .NET, I would have to write the a Query

>> Engine that understands at least a subset of ANSI-92!

>>

>> All client side code will be written using .NET anyway, but it needs to

>> be SQL compatible so we can easily port the database to SQL Server at

>> sometime in the future.

>>

>> I am finding it difficult to obtain sufficient information at the moment,

>> so any light you can shed on this would be much appreciated.

>>

>> --

>> Best regards

>> Mark

>>

>>

>> "Bob Beauchemin" <no_bobb_spam@xxxxxxxxxxxxxxxx> wrote in message

>> [news:%23\\$So57k3FHA.3588@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%23$So57k3FHA.3588@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

>>> Hi Mark,

>>>

>>> Having taught an OLE DB provider class and written material on ADO.NET

>>> data providers.... (and written both)....

>>>

>>> An OLE DB provider will be infinitely more difficult to write. And to

>>> get right. You can use it in a few more places (third party tools, SQL

>>> Server linked servers, etc). There's an OleDb .NET "bridge" provider,

>>> but it only supports a subset of OLE DB interfaces/properties.

>>>

>>> A .NET data provider would be *much* easier. The model is simpler and

>>> there are minimal (no) reference counting issues. I'd start with a .NET

>>> data provider. Only problem (which could be bigger for ISAM style

>>> database) is that the .NET model doesn't support scrollable, updateable

>>> cursors. .NET provider model is written after the client-server/three

>>> tier model where these are evil, so cursor support is left out. You

>>> could write your own extension classes, though.

>>>

>>> You could also write an ODBC driver, but the bridges (OLE DB provider

>>> for ODBC and .NET Odbc "bridge" provider) are pretty flakey and hard for

>>> folks (your clients) to work with. Some MS and third-party tools have

>>> dropped support for accessing ODBC drivers through the bridges.

Re: .NET data provider or OLEDB provider?

Re: .NET data provider or OLEDB provider?

>>>
>>> If you decide that Java is your only programming language/API
>>> environment, JDBC driver is the way to go.
>>>
>>> Oh, and there are third-party "your code goes here" toolkits/frameworks
>>> for building OLE DB/ODBC/JDBC. And ATL provider templates for OLE DB. I
>>> don't think there are toolkits for bulding ADO.NET data providers yet,
>>> maybe because its lots easier?
>>>
>>> Hope this helps,
>>> Bob Beauchemin
>>> <http://www.SQLskills.com/blogs/bobb>
>>>
>>>
>>> "Mark" <swozz_@xxxxxxxxxxxx> wrote in message
>>> [news:uTieN\\$j3FHA.3844@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](news:uTieN$j3FHA.3844@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)
>>>> Hi,
>>>>
>>>> We have a propriety database format currently in use by a DOS program.
>>>> There are some 1500 big customers using this system! The application
>>>> that sits on this database is complex and a rewrite would be a 2 year
>>>> project with massive upgrade/training issues at the end of it. This is
>>>> why a rewrite hasn't been commisioned – it's expensive and risky for a
>>>> small company to undertake even if it's 10 years overdue!
>>>>
>>>> To allow for a smoother less risky transition, we intend to rewrite the
>>>> front end using a combination of Windows/Web based technology (.NET)
>>>> whilst still utilizing the existing database. This will allow us the
>>>> gradually replace the front end. Once this is complete, we can port the
>>>> DOS database to something like SQL Server with relatively little
>>>> modifications required for the newly written front end.
>>>>
>>>> This means that we need SQL access to the existing DOS based ISAM style
>>>> data so that we can begin working on the new front end.
>>>>
>>>> The existing database was originally based on Borland Database Toolbox
>>>> (1985?) but has been significantly modified to work in a multiuser
>>>> environment.
>>>>
>>>> The way I see it, we could either write a .NET data provider or an
>>>> OLEDB provider.
>>>>
>>>> If we write a .NET data provider then we will also have to write a
>>>> query engine to support SQL type access. My question is that if we
>>>> decide to write an OLEDB provider to access the ISAM database, is there
>>>> already a Query Engine service that can take advantage of this provider
>>>> to allow us to access the data using SQL?
>>>>
>>>> Any help much appreciated...
>>>>
>>>> --

Re: .NET data provider or OLEDB provider?

>>>> Best regards

>>>> Mark

>>>>

>>>>

>>>

>>>

>>

>>

>

>

.

• **References:**

◆ **Re: .NET data provider or OLEDB provider?**

◇ From: Bob Beauchemin

◆ **Re: .NET data provider or OLEDB provider?**

◇ From: Mark

◆ **Re: .NET data provider or OLEDB provider?**

◇ From: Bob Beauchemin

• Prev by Date: **Re: .NET data provider or OLEDB provider?**

• Next by Date: **Re: cannot get column information from OLE DB provider "MSDASQL"**

• Previous by thread: **Re: .NET data provider or OLEDB provider?**

• Index(es):

◆ **Date**

◆ **Thread**