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The DevForce LINQPad driver allows you to use LINQPad with a DevForce model.

In response to customer requests, we've built a DevForce LINQPad driver that lets you use LINQPad with DevForce models. There's no need to struggle with the EF or Universal drivers or add namespaces and assemblies.

The DevForce LINQPad driver adds everything for you, so you can get started using LINQPad with your DevForce model right away.

#### Download

- DevForceLINQPadDriver.lpx (binary)
- DevForceLINQPadDriver.zip (binary, zipped for Internet Explorer users)
- DevForceLINQPadDriver source
- <u>LINQPad</u>

## Install the DevForce driver

- 1. **NEW** The DevForce LINQPad Driver is now a featured driver in LINQPad. This means that you don't need to directly download the driver file and can skip to step #4 below.
- 2. For Internet Explorer: Extract the .lpx file from the zip download. For other browsers, download the .lpx file directly.
- 3. Copy the .lpx to a folder on your hard drive.
- 4. Open LINQPad
- 5. Click Add connection.

	Pad 4		
File	Edit	Query	Help
	Add co Northv	onnection windIBEnt	ities (NorthwindIB)

The following dialog is displayed:

### Documentation - DevForce LINQPad driver

Build data context automatically			
LINQPad Driver	Version	Author	
Default (LINQ to SQL)	(built-in)	(built in)	
WCF Data Services (OData)	(built-in)	(built in)	
Microsoft DataMarket Service	(built-in)	(built in)	
			Delete Driv
LINOPad Driver	Version	Author	
LINO to SOL	(built-in)	(built in)	
Entity Framework	(built-in)	(built in)	
View more driver			Delete Dri
View more drivers		Next >	Delete Dri
View more drivers k View more drivers		Next >	Delete Dri Cancel
View more drivers X View more drivers Choose a Driver		Next >	Delete Driv Cancel
View more drivers X View more drivers Choose a Driver Choose from the featured drivers:		Next >	Delete Dri Cancel
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View more drivers k View more drivers Choose a Driver hoose from the featured drivers: DevForce LINQPad Driver		Next >	Delete Dri

6.

Choose a Driver	2
hoose from the featured drivers:	
DevForce LINQPad Driver	
V Download & Enable Driver (download again to update)	
This driver lets you directly query <u>DevForce models</u> with full schema support. All versions of DevForce are supported - <u>click for more information</u> on the driver.	
DevForce extends the Entity Framework with n-tier architecture and non-relational data sources, taking care of all the n- tier WCF communications, serialization, and marshaling. It also supports dynamic queries, client-side caching and offline operation. <u>Learn more</u>	
	_
Dr, browse to a .LPX file: Browse	
Close	

Scroll through the list of featured drivers until you find the DevForce LINQPad Driver. Click the Download & Enable **Driver** link to install the driver.

Alternately, to install a downloaded .lpx file, click the Browse ... ''\* button to browse for the DevForceLINQPadDriver.lpx file you copied above.

7. Once installed, the driver is available in the LINQPad Choose Data Context dialog:

INOR- I Driver	Varian	Author	
	version	Author	
Default (LINQ to SQL)	(built-in)	(built in)	
WCF Data Services (OData)	(built-in)	(built in)	
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# Use the DevForce LINQPad driver

1. Select the driver from the Choose Data Context dialog. (shown above)

A dialog collecting the model assembly, sub-typed EntityManager name and .config file opens:

N DevForce LINQPad Driver	
Path to model assembly (.NET):	Browse
Full name of EntityManager sub-class:	<u>Choose</u>
Application config file:	Browse
Remember this connection	
	OK Cancel

2. Browse to the **.NET** assembly holding your EDMX or Code First model. (In a Silverlight application, be sure to point to the .NET assembly, not the Silverlight assembly.) After selecting the assembly, the *EntityManager* type name and .config file boxes will be automatically filled in if the appropriate information was found. If not, select the **Choose** or **Browse** options.

N DevForce LINQPad Driver	
Path to model assembly (.NET):	Browse
$\label{eq:c:CodeSamples2010} C: \codeSamples2010\000\_DevForceOverview\Silverlight\_TourOfDevForce\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\bin\SimpleStepsWeb\Din\Si$	eleSteps.dll
Full name of EntityManager sub-class:	Choose
SimpleSteps.NorthwindIBEntities	
Application config file:	Browse
$\label{eq:cond} C:\codeSamples2010\000\_DevForceOverview\Silverlight\_TourOfDevForce\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web.condetStepsWeb\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\Web\CodeCS\Tour\_Pt05Completed\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepsWeb\SimpleStepStepStepStepStepStepStepStepStepSte$	fig
Remember this connection	
ОК	Cancel

Once selected, you will see your EntityQuery properties in the left pane. You can drill in to see the properties for the entity.



3. To see if the driver and model loaded successfully, try a simple query. Right-click an *EntityQuery* and choose the **Take(50**) sample query. Then run it:

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Lan	guage C# Expressio	n ▼ ⇔ Data	abase SimpleSteps	NorthwindIBEntities		▼ Use Si	mpleStep	s.Northwin	щ
ustomers.Take	(50)								
esults λ SQL i	IL					Export Results	- Activ	vate Autoco	mpletio
▲ EntitvOuerv <cus< p=""></cus<>	tomer> (50 items)								
CustomerID	CustomerID_OLD	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Count
729de505- ea6d-4cdf- 89f6- 0360ad37bde7	WANDK	Die Wandernde Kuh	Rita Müller	Sales Representative	Adenauerallee 900	Stuttgart	null	70563	Germa
cd98057f- b5c2-49f4- a235-	SUPRD	Suprêmes délices	Pascale Cartrain	Accounting Manager	Boulevard Tirou, 255	Charleroi	null	B-6000	Belgiu

# **Getting started**

- Click the Use ... link in the upper right to tell LinqPad that you want to reference the model assembly.
- The button with the green arrow executes your code; F5 is the shortcut key.
- Pick Language: C# statements if you want to evaluate multiple statements (terminated with ;).

The C# statement(s) option allows you to do several queries in one go. Note the assignments to a variable named x and the **Dump**() call.

## Documentation - DevForce LINQPad driver

INQPad 4								×	3
File Edit Query Help	Query 1*					License	d to Idea	aBla	de
	Language [# // Comprehension syntax var x = from cust in Cus where cust.City.StartsWi orderby cust.CompanyName select cust; // Output to Results win x.Dump(); // The same query in met x = Customers .Where (c => c.City.Star .OrderBy (c => c.Company x.Dump();	<pre>Statement(s)  Statement(s) Statement(s)</pre>	Database Simpl	eSteps.Northwin	<b>dli ▼</b> Use SimpleS	<u>Steps.Northwin</u>		>	<
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	t1c66c612ata f0f2274d- QUICK 4d5b-4dde- a560- 08ceeed406e0	QUICK-Stop	Horst Kloss	Accounting Manager	Taucherstraße 10	Cunewalde	null	0:	
	cd98057f- SUPRD b5c2-49f4- a235- 05d155e636df	Suprêmes délices	Pascale Cartrain	Accounting Manager	Boulevard Tirou, 255	Charleroi	null	B	III
	Query successful (00:00.036)	m						•	•

• Pick Language: C# expression if you're only trying a single query (don't terminate with ; and don't assign to variables).

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Lan	guage C# Expression	n 🔻 🗢 D	atabase Simple	Steps.Northwin	dII 🔹 Use Simple	Steps.Northwi	n
ustomers Where (c => c. OrderBy (g => d esults λ SQL )	Tity.StartsWith( C.CompanyName) L	"c"))				I	Expo
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b33096adb545 1dbda67d- c658-40f9- b210-	GROSR	GROSELLA- Restaurante	Manuel Pereira	Owner	5ª Ave. Los Palos Grandes	Caracas	D

- You can use either comprehension or method syntax: whichever suits you.
- VB expressions, statements and programs are supported too!
- You'll notice that you don't need to create an *EntityManager*, as LINQPad does that for you. Each query tab is effectively an *EntityManager*, letting you execute the usual *EntityManager* queries and methods. (Yes, you can call *SaveChanges* and other methods too, but we can make no guarantees about what may work in the LINQPad sandbox.)
- All queries by default use the *DataSourceOnly* query strategy. LINQPad creates a new *EntityManager* each time a query tab is executed, so caching is unnecessary.
- DevForce probing is performed using the folder holding the model assembly. This may have unexpected consequences, especially if your custom *IEntityLoginManager* is found. **The LINQPad driver will always attempt to do a guest login**, and will fail if your code disallows this. You can work around this limitation by moving the model assembly to another folder which does not contain your custom components; or modify the driver to suit your purposes.
- When using with DevForce 2012, make sure that all necessary assemblies are available in the folder with the model assembly, since these assemblies won't be in the GAC as they are with DevForce 2010. There's no need to add DevForce assembly references or download a DevForce NuGet package.

## What's new

- 1.0.1 Code First models are supported as of version 1.0.1 of the driver and DevForce 6.1.5.
- **1.0.2** Support for stored procedure queries, complex types, and DevForce dynamic LINQ. You can also optionally view the generated SQL for a query by setting the "Capture SQL" checkbox in the connection properties window. Note that capturing generated SQL has some performance impact, so you may want to turn it off when query performance is important.
- **1.0.3** Support for LINQPad 4.38 and later. If you are using a LINQPad 4.38 Beta version prior to 4.38.05, you must also set the LINQPad option "Do not shadow assembly references" to True. You can find this option on the Advanced Tab under *Edit*|*Preferences*.
- 1.0.4 Login is no longer performed by the driver, allowing it to be used with either DevForce 2010 or DevForce 2012.

## Notes and resources

- For help on how to write queries in LINQPad, see the LINQPad documentation.
- To get the full benefits of LINQPad, we highly recommend LINQPad Autocompletion.
- The driver does not use static DevForce references so should work with (nearly) any version of DevForce.
- If you get any errors or need to add either assemblies or using statements, then let us know.
- If you want to modify the driver, the source code for the driver is available for download from the link above. Documentation on writing a custom LINQPad driver is available <u>here</u>.