

## Using SQL Express 2012 LocalDB with APLNext Database Interface Tools for SQL Server

**LocalDB is a special version of Microsoft SQL Express 2012 for developer testing:**

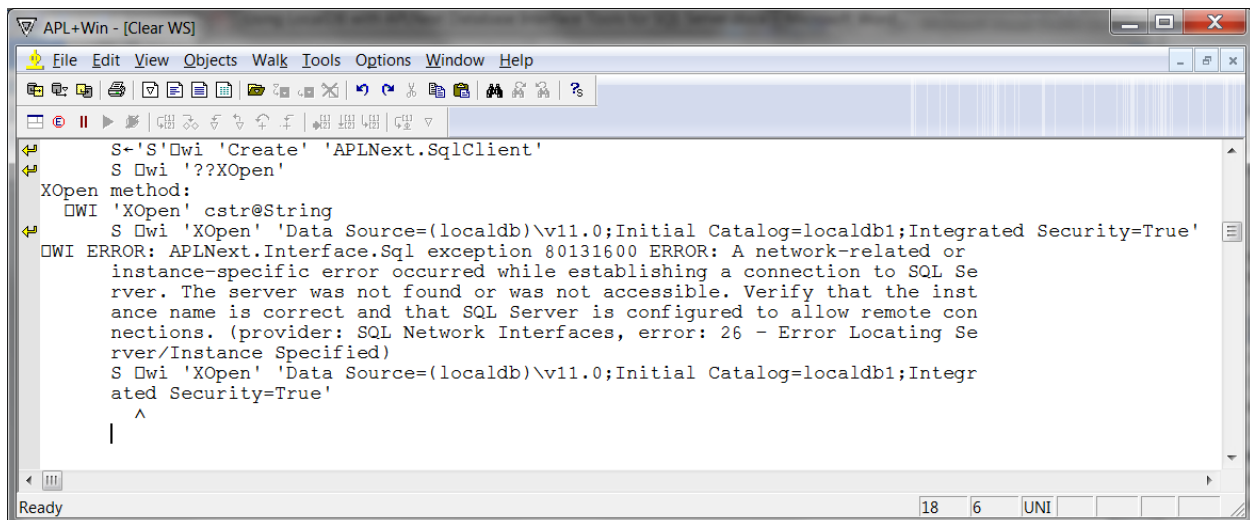
For more information see: <http://blogs.msdn.com/b/sqlexpress/archive/2011/07/12/introducing-localdb-a-better-sql-express.aspx>

**Use Microsoft SQL Server Management Studio to create a localdb database and table:**

Refer to the document: Use Microsoft SQL Server Management Studio to Connect to LocalDB.pdf available on the APL2000 Forum at: <http://forum.apl2000.com/viewtopic.php?p=3330#3330>.

**In APL+Win create an instance of the APLNext Database Interface Tools for SQL Server and use the XOpen method:**

The example assumes that the programmer has previously installed Microsoft SQL Express 2012 including localdb and used the Microsoft SQL Server Management Studio to create the 'localdb1' database in the localdb instance of SQL Express 2012. The argument to the 'XOpen' method is the special connection string specified by Microsoft for the localdb version of Microsoft SQL Express 2012.



```
APL+Win - [Clear WS]
File Edit View Objects Walk Tools Options Window Help
S←'S'Dwi 'Create' 'APLNext.SqlClient'
S Dwi '??XOpen'
XOpen method:
  Dwi 'XOpen' cstr@String
  S Dwi 'XOpen' 'Data Source=(localdb)\v11.0;Initial Catalog=localdb1;Integrated Security=True'
  Dwi ERROR: APLNext.Interface.Sql exception 80131600 ERROR: A network-related or
  instance-specific error occurred while establishing a connection to SQL Se
  rver. The server was not found or was not accessible. Verify that the inst
  ance name is correct and that SQL Server is configured to allow remote con
  nections. (provider: SQL Network Interfaces, error: 26 - Error Locating Se
  rver/Instance Specified)
  S Dwi 'XOpen' 'Data Source=(localdb)\v11.0;Initial Catalog=localdb1;Integr
  ated Security=True'
  ^
  |
```

The reason for this error message is revealed in a Microsoft blog about using localdb in Microsoft Visual Studio 2010: <http://blogs.msdn.com/b/sqlexpress/archive/2011/11/28/using-localdb-in-visual-studio-2010.aspx>

Essentially Visual Studio 2010 has only limited support for SQL Express 2012 localdb and that limited support is available only for Visual Studio 2010 projects which are created using the .Net Framework 4.0. Full support for localdb will become available when the final version of the .Net Framework 4.5 and Visual Studio11 are released by Microsoft.

This Microsoft limitation means that the current version of the APLNext Database Interface Tools for SQL Server cannot connect to localdb since this tool set was compiled using a .Net Framework prior to version 4.0.

In the future APLNext may create an updated version of the APLNext Database Interface Tools for SQL Server using the .Net Framework 4.0 to see if this Microsoft limitation can be avoided.

### In the meantime use a 'named instance' of Microsoft SQL Express 2012:

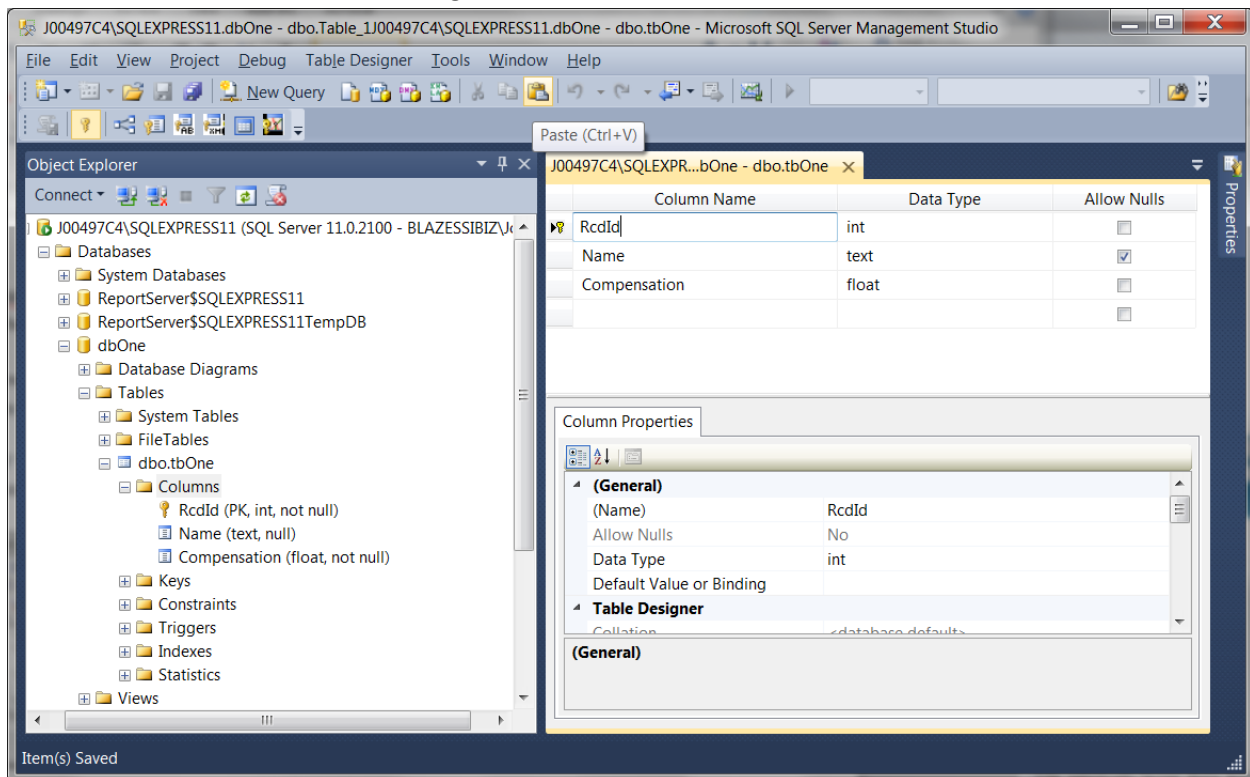
The APLNext Database Interface Tools for SQL Server can be used with Microsoft SQL Server 2012 by creating a named instance of SQL Express 2012. For more information on using a named instance of SQL Express 11 see the documents available on the APL2000 Forum at

<http://forum.apl2000.com/viewtopic.php?p=3330#3330>:

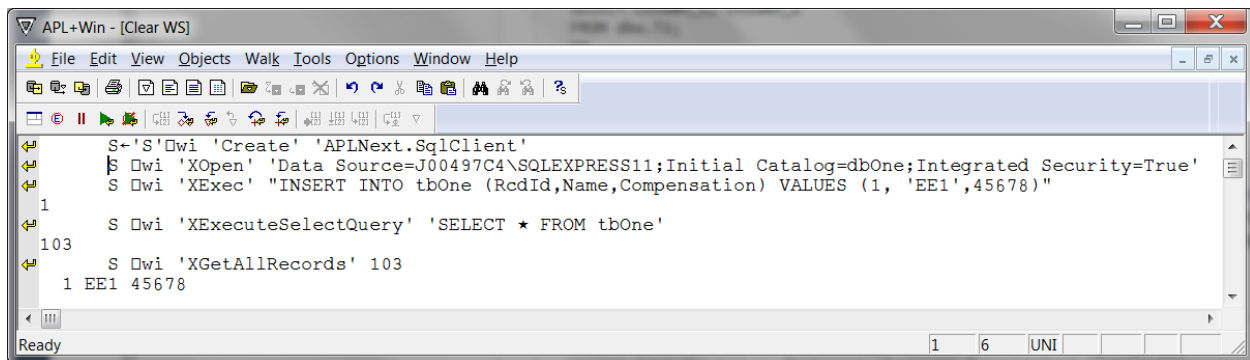
- Installing Microsoft SQL Express 2012.pdf
- Microsoft SQL Server 2012 Management Studio.pdf
- Using APLNext DataBase Interface Tools for Microsoft SQL Server.pdf

For example if 'SQLEXPRESS11' is a named instance of Microsoft SQL Express 2012 and 'dbOne' is a database created in that instance and 'tbOne' is a table created in that database:

From the Microsoft SQL Server Management Studio:



Using APL+Win and the APLNext Database Interface Tools for SQL Server to insert a record into the named instance of SQL Express 2012:



Microsoft SQL Server 2008 and 2005 can also be used without issue with the current version of APLNext Database Interface Tools for SQL Server.