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## Run a .sql script file in C#

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BexM 35 Points

Wednesday, July 18, 2007 2:05 PM

0

Hello!

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I need to run an sql script file from code.

I have a folder with lots of .sql files, which the app will use if it decides the database is out of date.

I can't work out how to run the whole file?

I am expecting there is be something like cmd.executeFile("file.sql") somewhere but I can't find anything like it.

Is it possible do this or do I need to separate it out the file some how?

Thanks

Bex

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Started: 7/18/2007

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## Answers



boban.s Datasoft (Partner) 6,605 Points

Wednesday, July 18, 2007 2:42 PM

17

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You can't run files directly, with just specifying file name. You must first read it's content in a string and then execute CommandText command.

But this will work as long you don't have GO statement in your sql script. From your post it looks like that SqlCommand is not usefull because scripts that include DDL command are completed with batch finalizer GO command. Luckily, since SQL Server 2005, you can use smo library to do this operation and not use batch command and osql connection as previously. Here is how to do it:

```
using System.Data.SqlClient;
using System.IO;
using Microsoft.SqlServer.Management.Common;
using Microsoft.SqlServer.Management.Smo;
```

```
namespace ConsoleApplication1
```

```
{
```

```
    class Program
```

```
    {
```

```
        static void Main(string[] args)
```

```
        {
```

```
            string sqlConnectionString = "Data Source=(local);Initial Catalog=AdventureWorks;Integrated Security=True";
```

```
            FileInfo file = new FileInfo("C:\\myscript.sql");
```

```
            string script = file.OpenText().ReadToEnd();
```

```
            SqlConnection conn = new SqlConnection(sqlConnectionString);
```

```
            Server server = new Server(new ServerConnection(conn));
```

```
            server.ConnectionContext.ExecuteNonQuery(script);
```

```
        }
```

```
    }
}
```

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**boban.s** Datasoft (Partner) 6,605 Points

Wednesday, July 18, 2007 2:42 PM

17

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You can't run files directly, with just specifying file name. You must first read it's content in a string and then execute CommandText command.

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```
using System.Data.SqlClient;
using System.IO;
using Microsoft.SqlServer.Management.Common;
using Microsoft.SqlServer.Management.Smo;

namespace ConsoleApplication1
{
    class Program
    {
        static void Main(string[] args)
        {
            string sqlConnectionString = "Data Source=(local);Initial
Catalog=AdventureWorks;Integrated Security=True";
            FileInfo file = new FileInfo("C:\\myscript.sql");
            string script = file.OpenText().ReadToEnd();
            SqlConnection conn = new SqlConnection(sqlConnectionString);
            Server server = new Server(new ServerConnection(conn));
            server.ConnectionContext.ExecuteNonQuery(script);
        }
    }
}
```

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**BexM** 35 Points

Wednesday, July 18, 2007 3:03 PM

0

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Thanks for the info!  
I will try that!

[Reply](#) [Quote](#)

**Vijay\_vishwa** 0 Points

Friday, August 31, 2007 5:23 AM

0

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Hi i m getting errors while executing because of \n \t \r in the text file while reading. Even the 'GO' statement is giving errors

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**timvw** ICTEAM 7,340 Points

Friday, August 31, 2007 5:49 AM

1

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Start a transaction, read and execute line by line, commit the transaction or rollback.

[Reply](#) [Quote](#)



**Vijay\_vishwa** 0 Points

Friday, August 31, 2007 5:51 AM

0

Can u help me with that how can i achieve that. Thank You

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**timvw** ICTEAM 7,340 Points

Friday, August 31, 2007 6:16 AM

1

Which part? If i type "c# start transaction" and "c# read line by line" in my favorite search engine i get many valuable answers...

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While doing this, didn't take 5 minutes, i stumbled upon <http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dnmsde/html/msdedepl.asp> which even contains the code you're looking for (but it's in vb)..

[Reply](#) [Quote](#)



**boban.s** Datasoft (Partner) 6,605 Points

Friday, August 31, 2007 6:49 AM

0

Code I've posted is working fine. This thread targets the problem of running script files with DDL commands, which means they have '\r\n' new lines and especially 'GO' statemens. In fact SqlCommand object can also execute command text with '\r\n' in the string, but can't execute GO statement. So you have some other problem.

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**deedy** 0 Points

Wednesday, September 05, 2007 8:02 AM

0

I'm sorry. I would like to run sql script on VS2003. VS2003 can't use Microsoft.SqlServer file.

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Do you have other way for help me?

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**ftpex** 45 Points

Thursday, September 06, 2007 11:30 AM

0

use System.Diagnostics to start sqlcmd

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<http://msdn2.microsoft.com/en-us/library/ms165702.aspx>

<http://msdn2.microsoft.com/en-us/library/system.diagnostics.process.aspx>

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**Mats Aubell** Amende (Partner) 25 Points

Wednesday, October 10, 2007 11:27 AM

6

Great tip (post nr.2)! Helped me through a large .sql file



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The files you need to reference are:

- Microsoft.SqlServer.ConnectionInfo
- 

Microsoft.SqlServer.Smo

Took me a few minutes to find at first. If you can't find them in the .NET tab, you might not have it installed. The paths on my computer to these files are:

- c:\Program Files\Microsoft SQL Server\90  
\SDK\Assemblies\Microsoft.SqlServer.ConnectionInfo.dll
- c:\Program Files\Microsoft SQL Server\90  
\SDK\Assemblies\Microsoft.SqlServer.Smo.dll

Hope it saves some time looking!

Mats

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**UAppia** 0 Points

Thursday, June 12, 2008 7:49 PM

0

If I want to pass variables to the sql file,how to do that ?

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[Quote](#)



**ftpex** 45 Points

Thursday, June 12, 2008 8:06 PM

0

I use <http://www.databasejournal.com/features/mssql/article.php/3566401>

and

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use System.Diagnostics to start sqlcmd

<http://msdn2.microsoft.com/en-us/library/ms165702.aspx>

<http://msdn2.microsoft.com/en-us/library/system.diagnostics.process.aspx>

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**Uriah65** 5 Points

Tuesday, August 19, 2008 9:33 AM

1

Should'n we be using 'using' statement for SqlConnection? It implements Dispose() interface.

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```
using(SqlConnection conn = new SqlConnection(sqlConnectionString))
{
    Server server = new Server(new ServerConnection(conn));
    server.ConnectionContext.ExecuteNonQuery(script);
}
```

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**Tatage** 0 Points

Saturday, September 27, 2008 6:53 AM



 0

it works~  
 thanks~

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**jjluna23** 0 Points

Wednesday, October 01, 2008 2:51 PM



 0

HI!!  
  
 I have a sql file and I want to give some parameters to it and then run it. My guess is, how could I do it with the code given by boban.s? it's possible to pass some parameters to the sql file?  
  
 Thanks!!  
  
 I'm venezuelan so forgive me for my english.

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**Waleed A.K. \_** 15 Points

Tuesday, March 24, 2009 7:20 PM


 0

Hi Boban,  
 I really love your trick, for the people how had some issue with special characters "\n", "\r" or "\t" they can use  

```
string script = file.OpenText().ReadToEnd();
```

 from Boban code follow by  


```
script = script.Replace("\t", " ").Replace("\n", " ");
```

 I think the "\r" works fine, otherwise replace it too.  
 and if you have some parameter to change like Param1 try to use  


```
script = script.Replace("Param1", "Test value ");
```

 Thanks  
  
 Proposed As Answer by **Waleed A.K. \_** Tuesday, March 24, 2009 7:22 PM

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[Reply](#)   [Quote](#)


**Wael Al-Joulani** ILS (Partner) 560 Points

Monday, April 13, 2009 1:25 PM


 0

Hi All:  
 Thanks for this solution it help me so much, but it's not work when I tried it for a file contains more than one stored procedure, it always give me an error says "Incorrect syntax near the keyword 'PROCEDURE'. Must declare the scalar variable '@Parameter' ", any body have an idea about this problem.  
  
 thanks in advance

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**boban.s** Datasoft (Partner) 6,605 Points

*Monday, April 13, 2009 2:04 PM*

0

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From the error message, it looks that your script is not correct. Try the same script in management studio in order to debug and find the problem.  
There is no limitation in executing script on the provided solution. What is required is that script must be correct.

MCDBA, MCSD, MCITP DD&DA <http://sharpsource.blogspot.com/>

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**Wael Al-Joulani** ILS (Partner) 560 Points

*Tuesday, April 14, 2009 6:16 AM*

0

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Hi boban:

I tried the procedures in the management studio and it's return the same error because there are no GO at the end of each procedure so when I add GO at the end of each one it's going right in the management studio but not in the code because of GO.

here is a sample of stored procedures which i use

/\*\*\*\*\* Object: StoredProcedure [dbo].[UserEmployee\_SelectEmployee] Script Date: 04/13/2009 15:00:09 \*\*\*\*\*/

```
CREATE PROCEDURE [UserEmployee_SelectEmployee]
    @lang varchar(10)
```

```
AS
```

```
BEGIN
```

```
    SELECT
```

```
        EmployeeID ,
```

```
    case @lang
```

```
        when 'Arabic' then
```

```
            EmployeeNameA
```

```
    else
```

```
            EmployeeNameE
```

```
    end AS EmployeeName
```

```
FROM
```

```
    Employee
```

```
    ORDER BY EmployeeName;
```

```
END
```

/\*\*\*\*\* Object: StoredProcedure [dbo].[DisplayContract\_InsertDisplayContract] Script Date: 04/13/2009 14:58:14 \*\*\*\*\*/

```
CREATE PROCEDURE [DisplayContract_InsertDisplayContract](
```

```
    @P_ClientID int,
```

```
    @P_ContractDate datetime,
```

```
    @P_ReceiveDate datetime,
```

```
    @P_StartDate datetime,
```

```
    @P_EndDate datetime,
```

```
    @P_Comments nvarchar (512),
```

```
    @P_CreatedBy nvarchar (30))
```

```
AS
```

```
BEGIN
```

```
    INSERT INTO DisplayContract(
```

```
        ClientID,
```

```
        ContractDate,
```

```
        ReceiveDate,
```

```
        StartDate,
```

```
        EndDate,
```

```
        Comments,
```

```
        CreationDate,
```

```
        CreatedBy)
```

```
VALUES (
```

```
    @P_ClientID,
```

```
    @P_ContractDate,
```

```
    @P_ReceiveDate,
```

```
    @P_StartDate,
```

```
    @P_EndDate,
```


```
    @P_Comments,
```

```
    getdate(),
```

@P\_CreatedBy);

END


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 **boban.s** Datasoft (Partner) 6,605 Points

*Tuesday, April 14, 2009 8:24 AM*

0 Put the batch terminator GO after each procedure, and the script should work from code.  
MCDBA, MCSD, MCITP DD&DA <http://sharpsource.blogspot.com/>


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 **Wael Al-Joulani** ILS (Partner) 560 Points

*Tuesday, April 14, 2009 9:08 AM*

0 thank for your quick reply, I tried it before but still the same problem

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 **Wael Al-Joulani** ILS (Partner) 560 Points

*Wednesday, April 15, 2009 6:55 AM*

0 My problem was solved thank you so much, the problem was in the code because I remove new lines from the procedures

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 **Waleed A.K. \_** 15 Points


*Friday, April 17, 2009 9:17 PM*

3 If you would like to run a script generated by sql server try to remove all "GO". See the code below

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```
FileInfo
file = new FileInfo("Put The File Name Here");
string SQLscript = file.OpenText().ReadToEnd();
SQLscript = SQLscript.Replace("GO", "");
//Optional to Replace Comments with empty string
SQLscript = Regex.Replace(SQLscript, "([/*][*]).*([*]/)", "");
//Optional to Replace Chain of spaces with one Space
SQLscript = Regex.Replace(SQLscript, "\\s{2,}", " ");
SqlCommand sqlCommand = new SqlCommand(SQLscript, "Put your
Connection Here");
sqlCommand.Connection.Open();
sqlCommand.ExecuteNonQuery();
sqlCommand.Connection.Close();
```

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 **Tabas** 305 Points

*Monday, May 25, 2009 9:40 PM*

0 Hi,

Just today i have use the following code:

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```
/// <summary>
/// Crea una tabla en la base de datos ZAION
```

```

/// </summary>
/// <param name="script">El script SQL generado por Zaion</param>
/// <param name="conexion">La cadena de conexión a usar</param>
public static void CreaTablaZaion(string script, string conexion)
{
    Microsoft.Practices.EnterpriseLibrary.Data.Database _db =
    DatabaseFactory.CreateDatabase(conexion);
    DbConnection _cmd = _db.CreateConnection();
    using (SqlConnection conn = new SqlConnection(_cmd.ConnectionString))
    {
        try
        {
            Server server = new Server(new ServerConnection(conn));
            server.ConnectionContext.ExecuteNonQuery(script);
        }
        catch (Exception ex)
        {
            _lasterror = ex.Message;
            throw new ApplicationException(String.Format("Ocurrió un error al intentar
crear el esquema de plantilla.\r\nMás detalles:\r\n{0}", _lasterror));
        }
    }
}

```

You will need to add the following references:

```

using System.Data.SqlClient;
using Microsoft.SqlServer.Management.Smo;
using Microsoft.SqlServer.Management.Common;
using Microsoft.Practices.EnterpriseLibrary.Data;
using System.Data.Common;

```

Regards  
TESTED

Proposed As Answer by [Tabas](#) Monday, May 25, 2009 9:40 PM

[Reply](#) [Quote](#)



**Quim Chale** (Partner) 0 Points

Wednesday, August 05, 2009 4:34 PM



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Thanks for this piece of code, I'm using and its working fine but...

- When a create procedure is in the script:
- if "GO" not is in the script--> Error "Create Procedure must be the first instruction..."
- if "GO" is in the script --> Syntax Error

Any idea to solve this problem ?

Finally, I think the regular expression to replace comments doesn't work. I test in the notepad+ +.

Quim

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**Waleed A.K. \_** 15 Points

Tuesday, August 11, 2009 10:21 PM



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Hello Quim,

Did you ever tried sp\_executesql ?

-Waleed A.K

Proposed As Answer by [Waleed A.K. \\_](#) Tuesday, August 11, 2009 10:25 PM

[Reply](#) [Quote](#)





**Quim Chale** (Partner) 0 Points

Wednesday, August 12, 2009 7:24 AM



Thanks Waleed

I solved it following the

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TIMVW's proposal:

- Start a transaction, read and execute line by line, commit the transaction or rollback:  
<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dnmsde/html/msdedepl.asp>

Quim Chalé

[Reply](#)

[Quote](#)



**J. Pablo Fernández** 0 Points

Saturday, September 19, 2009 9:49 PM



Hello,

At the line:  
 server.ConnectionContext.ExecuteNonQuery(script);  
 I'm getting this error:

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```
Test method IsItScienceFiction.Tests.UserTest.TestMethod1 threw
exception: System.Reflection.TargetInvocationException: Exception has
been thrown by the target of an invocation. --->
System.TypeInitializationException: The type initializer for '<Module>'
threw an exception. --->
<CrImplementationDetails>.ModuleLoadException: The C++ module failed to
load during appdomain initialization.
---> System.DllNotFoundException: Unable to load DLL 'MSVCR80.dll':
The specified module could not be found. (Exception from HRESULT:
0x8007007E).
```

with this stack trace:

```
_encode_pointer(Void* )
_initatexit_app_domain()
LanguageSupport.InitializePerAppDomain(LanguageSupport* )
LanguageSupport._Initialize(LanguageSupport* )
LanguageSupport.Initialize(LanguageSupport* )
ThrowModuleLoadException(String errorMessage, Exception innerException)
ThrowModuleLoadException(String , Exception )
LanguageSupport.Initialize(LanguageSupport* )
cctor()
Microsoft.SqlServer.Management.Common.ExecuteBatch.GetStatements(String
sqlCommand)
System.RuntimeMethodHandle._InvokeMethodFast(Object target, Object[] arguments,
SignatureStruct& sig, MethodAttributes methodAttributes, RuntimeTypeHandle
typeOwner)
System.RuntimeMethodHandle.InvokeMethodFast(Object target, Object[] arguments,
Signature sig, MethodAttributes methodAttributes, RuntimeTypeHandle typeOwner)
System.Reflection.RuntimeMethodInfo.Invoke(Object obj, BindingFlags invokeAttr, Binder
binder, Object[] parameters, CultureInfo culture, Boolean skipVisibilityChecks)
System.Reflection.RuntimeMethodInfo.Invoke(Object obj, BindingFlags invokeAttr, Binder
binder, Object[] parameters, CultureInfo culture)
System.RuntimeType.InvokeMember(String name, BindingFlags bindingFlags, Binder
binder, Object target, Object[] providedArgs, ParameterModifier[] modifiers, CultureInfo
culture, String[] namedParams)
System.Type.InvokeMember(String name, BindingFlags invokeAttr, Binder binder, Object
target, Object[] args, CultureInfo culture)
Microsoft.SqlServer.Management.Common.ServerConnection.GetStatements(String
query, ExecutionTypes executionType, Int32& statementsToReverse)
Microsoft.SqlServer.Management.Common.ServerConnection.ExecuteNonQuery(String
sqlCommand, ExecutionTypes executionType)
Microsoft.SqlServer.Management.Common.ServerConnection.ExecuteNonQuery(String
sqlCommand)
```

IsItScienceFiction.Tests.UserTest.TestMethod1() in C:\Users\J. Pablo Fernández\Documents\Visual Studio 2008\Projects\IsItScienceFiction\IsItScienceFiction.Tests\UserTest.cs: line 75

I am running Visual Studio 2008 with SQL Server 2008. What am I doing wrong?

Proposed As Answer by [205ger](#) Monday, September 21, 2009 1:29 PM

[Reply](#)

[Quote](#)



**205ger** 0 Points

Monday, September 21, 2009 1:30 PM



Hi See this solution: Console

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```
static void Main(string[] args)
{
    Console.WriteLine("1-Hola");
    Console.WriteLine("2-Genera Conexion String");
    string sqlConnectionString = @"...."
    SqlConnection cn = new SqlConnection(sqlConnectionString);

    Console.WriteLine("3-Verificando esta de conexion");

    if (cn.State==ConnectionState.Closed)
    {
        Console.WriteLine("4-Por abrir conexion");
        cn.Open();
        Console.WriteLine("5-Conxion Abierta");
    }

    SqlCommand cmd;

    FileInfo file = new FileInfo("C:\apolo2.sql");
    Console.WriteLine("6-Por leer archivo");
    string sql = file.OpenText().ReadToEnd();
    Console.WriteLine("7-archivo ya leído y paso a reemplazo GO");

    string scriptText = sql;

    //split the script on "GO" commands
    string[] splitter = new string[] { "\r\nGO\r\n" };
    string[] commandTexts = scriptText.Split(splitter,
        StringSplitOptions.RemoveEmptyEntries);

    int i=0;
    Console.WriteLine("8-Actualizando");
    foreach (string commandText in commandTexts)
    {
        if (cn.State == ConnectionState.Closed)
        {
            cn.Open();
        }
        i++;
        string x = commandText.Replace("GO", "");
        cmd = new SqlCommand(x, cn);
        try
        {
            Console.WriteLine(i.ToString() + "-");

            cmd.ExecuteNonQuery();

        }
        catch (SqlException sqlException)
        {
            Console.WriteLine(sqlException.Message);
        }
        catch (Exception ex)
        {
            Console.WriteLine(ex.Message);
        }
    }
    finally
```

```

        {
            cn.Close();
        }

        //execute commandText
    }

    Console.WriteLine("10-Cerrada la base OK");
    Console.ReadKey();

}

```

Proposed As Answer by [205ger](#) Monday, September 21, 2009 1:45 PM

[Reply](#) [Quote](#)



[hs\\_jha](#) 0 Points

Saturday, October 03, 2009 7:44 AM



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Cool ! But how to carry out this on production server ?

[using](#) Microsoft.SqlServer.Management.Common;  
[using](#) Microsoft.SqlServer.Management.Smo;

are not supported by webforms..

[Reply](#) [Quote](#)



[Nitin J. Jain](#) BatchMaster Software Inc... 1,710 Points

Wednesday, October 07, 2009 12:07 PM



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Hi,

I also have the same requirement i.e. I have to create database and all table using the C# application. I have all command in a

single .sql file. Currently I am using sqlCommand.ExecuteNonQuery() to perform execute sql commands. But as you mention another

way to do the same. Can you please help me which one is better in context of Application performance etc ?

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[torohm](#) 0 Points

Tuesday, October 20, 2009 4:16 PM



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Hello  
I have similar issues.

SQL Server 2008

Using all the correct references I dare say:  
System.Data.SqlClient;  
using Microsoft.SqlServer.Management.Smo;  
using Microsoft.SqlServer.Management.Common;  
using Microsoft.SqlServer.Management.Sdk.Sfc;

All compiles with no errors.

I have stripped code down to almost zero for easy debugging.

Connecting to server alright and so on.

Excuting following code:

```
SqlConnection connection = new SqlConnection(sqlConnectionString);
Server server = new Server(new ServerConnection(connection));
server.ConnectionContext.ExecuteNonQuery(sqlDBQuery);
```

Where "sqlDBQuery" is a string: "USE [master] GO ALTER DATABASE [Cassiopeia] SET ANSI\_NULL\_DEFAULT OFF GO ALTER DATABASE [Cassiopeia] SET ANSI\_NULLS OFF GO"

But it doesn't matter what "sqlDBQuery" is, I always get the same error, like "incorrect syntax near GO".

I was in belief that SMO would take care of this, when I look at my ConnectionContext is says Batchseparator = "GO"

If I remove GO it's a go... so to speak but I really need to know why my SMO doesn't work.

Hope I didn't post something not applicable to this thread, but everywhere I look it just says "use smo like this and you're off fine". Well... doesn't work for me.

Regards/

Proposed As Answer by **Malakin** Monday, November 16, 2009 6:35 PM

[Reply](#) [Quote](#)



**Malakin** 5 Points

Monday, November 16, 2009 6:38 PM

1

I don't know if this will help any, but i find this way much more reliable.  
Have fun and take what you need.

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```
/// <summary>
/// Run an .sql script trough sqlcmd.
/// </summary>
/// <param name="fileName">the .sql script</param>
/// <param name="machineName">The name of the server.</param>
/// <param name="databaseName">The name of the database to connect to.</param>
/// <param name="trustedConnection">Use a trusted connection.</param>
/// <param name="args">The arguments passed to the sql script.</param>
public void RunSqlScript(string fileName, string machineName, string databaseName, bo
ol trustedConnection, string[] args)
{
    // simple checks
    if (!Path.GetExtension(fileName).Equals(".sql", StringComparison.InvariantCulture))
        throw new Exception("The file doesn't end with .sql.");

    // check for used arguments
    foreach (var shortArg in new[] { "S", "d", "E", "i" })
    {
        var tmpArg = args.SingleOrDefault(a => a.StartsWith(string.Format("-{0}", shortArg),
StringComparison.InvariantCulture));
        if (tmpArg != null)
            throw new ArgumentException(string.Format("Cannot pass -{0} argument to sqlc
md for a second time.", shortArg));
    }

    // check the params for trusted connection.
    var userArg = args.SingleOrDefault(a => a.StartsWith("-U", StringComparison.Invariant
Culture));
    var passwordArg = args.SingleOrDefault(a => a.StartsWith("-P", StringComparison.Inva
riantCulture));
    if (trustedConnection)
    {
        if (userArg != null)
            throw new ArgumentException("Cannot pass -H argument when trustedConnecti
on is used.");
        if (passwordArg != null)
            throw new ArgumentException("Cannot pass -P argument when trustedConnectio
n is used.");
    }
    else
    {
        if (userArg == null)
            throw new ArgumentException("Expecting username(-H) argument when trusted
Connection is not used.");
        if (passwordArg == null)
```

```

        throw new ArgumentException("Expecting password(-P) argument when trusted
        Connection is not used.");
    }

    // set the working directory. (can be needed with ouputfile)
    // TODO: Test if the above statement is correct
    var tmpDirectory = Directory.GetCurrentDirectory();
    var directory = Path.IsPathRooted(fileName) ? Path.GetDirectoryName(fileName) : Path.
Combine(this.ProjectRoot, fileName);
    var file = Path.GetFileName(fileName);
    Directory.SetCurrentDirectory(directory);

    // create cmd line
    var cmd = string.Format(string.Format("SQLCMD -S {0} -d {1} -i \"{2}\"", machineName,
    databaseName, file));
    foreach (var argument in args.Where(a => a.StartsWith("-", StringComparison.InvariantCulture
    CultureIgnoreCase)))
    {
        cmd += " " + argument;
        if (trustedConnection)
            cmd += " -E";
    }

    // create the process
    var process = new System.Diagnostics.Process();
    process.StartInfo.FileName = "cmd";
    process.StartInfo.CreateNoWindow = true;
    process.StartInfo.UseShellExecute = false;
    process.StartInfo.RedirectStandardOutput = true;
    process.StartInfo.RedirectStandardInput = true;

    // start the application
    process.Start();
    process.StandardInput.WriteLine("@ECHO OFF");
    process.StandardInput.WriteLine(string.Format("cd {0}", directory));
    process.StandardInput.WriteLine(cmd);
    process.StandardInput.WriteLine("EXIT");
    process.StandardInput.Flush();
    process.WaitForExit();

    // write the output to my debug folder and restore the current directory
    Debug.Write(process.StandardOutput.ReadToEnd());
    Directory.SetCurrentDirectory(tmpDirectory);
}

```

Proposed As Answer by [Malakin](#) Monday, November 16, 2009 6:39 PM

Edited by [Malakin](#) Monday, November 16, 2009 7:18 PM Added 'EXIT' Command. (this will end the process when its finished)

[Reply](#)

[Quote](#)



[hs\\_jha](#) 0 Points

Monday, November 16, 2009 8:51 PM

0

What a great yeoman service from a geek!!!!!!

[Sign In to Vote](#)

Malakin what does **this.ProjectRoot** to be replaced with when testing on local cassini

Error 1 'RunSql' does not contain a definition for 'ProjectRoot' and no extension method 'ProjectRoot' accepting a first argument of type 'RunSql' could be found (are you missing a using directive or an assembly reference?) C:\Documents and Settings\hsj\Desktop\TestSQL\RunSql.aspx.cs

[Reply](#)

[Quote](#)



[Lordearon](#) 5 Points

Wednesday, January 20, 2010 10:47 AM

1

[Sign In to Vote](#)

I don't know if this will help any, but i find this way much more reliable. Have fun and take what you need.

```

/// <summary>
/// Run an .sql script trough sqlcmd.
/// </summary>
/// <param name="fileName">the .sql script</param>
/// <param name="machineName">The name of the server.</param>
/// <param name="databaseName">The name of the database to connect to.</param>
/// <param name="trustedConnection">Use a trusted connection.</param>
/// <param name="args">The arguments passed to the sql script.</param>
public void RunSqlScript(string fileName, string machineName, string databaseName, bool trustedConnection, string[] args)
{
    // simple checks
    if (!Path.GetExtension(fileName).Equals(".sql", StringComparison.InvariantCulture))
        throw new Exception("The file doesn't end with .sql.");

    // check for used arguments
    foreach (var shortArg in new[] { "S", "d", "E", "i" })
    {
        var tmpArg = args.SingleOrDefault(a => a.StartsWith(string.Format("-{0}", shortArg), StringComparison.InvariantCulture));
        if (tmpArg != null)
            throw new ArgumentException(string.Format("Cannot pass -{0} argument to sqlcmd for a second time.", shortArg));
    }

    // check the params for trusted connection.
    var userArg = args.SingleOrDefault(a => a.StartsWith("-U", StringComparison.InvariantCulture));
    var passwordArg = args.SingleOrDefault(a => a.StartsWith("-P", StringComparison.InvariantCulture));
    if (trustedConnection)
    {
        if (userArg != null)
            throw new ArgumentException("Cannot pass -H argument when trustedConnection is used.");
        if (passwordArg != null)
            throw new ArgumentException("Cannot pass -P argument when trustedConnection is used.");
    }
    else
    {
        if (userArg == null)
            throw new ArgumentException("Expecting username(-H) argument when trustedConnection is not used.");
        if (passwordArg == null)
            throw new ArgumentException("Expecting password(-P) argument when trustedConnection is not used.");
    }

    // set the working directory. (can be needed with outfile)
    // TODO: Test if the above statement is correct
    var tmpDirectory = Directory.GetCurrentDirectory();
    var directory = Path.IsPathRooted(fileName) ? Path.GetDirectoryName(fileName) : Path.Combine(this.ProjectRoot, fileName);
    var file = Path.GetFileName(fileName);
    Directory.SetCurrentDirectory(directory);

    // create cmd line
    var cmd = string.Format(string.Format("SQLCMD -S {0} -d {1} -i \"{2}\"", machineName, databaseName, file));
    foreach (var argument in args.Where(a => a.StartsWith("-", StringComparison.InvariantCultureIgnoreCase)))
        cmd += " " + argument;
    if (trustedConnection)
        cmd += " -E";

    // create the process
    var process = new System.Diagnostics.Process();
    process.StartInfo.FileName = "cmd";
    process.StartInfo.CreateNoWindow = true;
    process.StartInfo.UseShellExecute = false;
    process.StartInfo.RedirectStandardOutput = true;
    process.StartInfo.RedirectStandardInput = true;

```

```

// start the application
process.Start();
process.StandardInput.WriteLine("@ECHO OFF");
process.StandardInput.WriteLine(string.Format("cd {0}", directory));
process.StandardInput.WriteLine(cmd);
process.StandardInput.WriteLine("EXIT");
process.StandardInput.Flush();
process.WaitForExit();

// write the output to my debug folder and restore the current directory
Debug.Write(process.StandardOutput.ReadToEnd());
Directory.SetCurrentDirectory(tmpDirectory);
}

```

You have a deadlock when reading the console output after the WaitForExit call as described here:

<http://msdn.microsoft.com/en-us/library/system.diagnostics.process.standardoutput.aspx>

I have changed your code to suite my needs (Client is using OSQL, so I couldn't use -v option)

```

class Program
{
    static void Main(string[] args)
    {
        string fileName = @"CreateDatabase-params.sql";
        SqlConnectionStringBuilder connStringBuilder = new SqlConnectionStringBuilder(
);
        connStringBuilder.UserID = "sa";
        connStringBuilder.Password = "Test123";
        connStringBuilder.DataSource = @".\SQLEXPRESS";
        Dictionary<string, string> variables = new Dictionary<string, string>(4);
        variables.Add("AppLogin", "ADMTLogin");
        variables.Add("AppPassword", "Test123");
        variables.Add("DBName", "ADMT");
        variables.Add("DBPath", @"C:\Program Files\Microsoft SQL Server\MSSQL10.SQLE
XPRESS\MSSQL\DATA");

        using(
            TextWriter standard = new StreamWriter("output.txt"),
            error = new StreamWriter("errors.txt"))
        {
            SqlHelper.StandardOutput = standard;
            SqlHelper.ErrorOutput = error;
            Thread th = new Thread(new ThreadStart(delegate
            {
                SqlHelper.RunSqlScript(fileName, connStringBuilder, variables);
            }));
            Console.WriteLine("Creating Database");
            th.Start();
            while (th.IsAlive)
            {
                Console.WriteLine(".");
                Thread.Sleep(1000);
            }
            Console.WriteLine(" Done");
            th.Join();
            standard.Flush();
            error.Flush();
        }

        Console.WriteLine("Database Created");
        Console.ReadKey();
    }
}

class SqlHelper
{
    public static TextWriter StandardOutput;
    public static TextWriter ErrorOutput;

    /// <summary>
    /// Parse Parameters then Run a .sql script trough osql.
    /// </summary>
    /// <param name="fileName">the .sql script</param>
    /// <param name="connStringBuilder">object that holds all connection information.
    </param>
    /// <param name="args">The arguments passed to the sql script.</param>

```

```

        public static void RunSqlCommand(string fileName, SqlConnectionStringBuilder connString, Dictionary<string, string> variables)
        {
            // simple checks
            if (!Path.GetExtension(fileName).Equals(".sql", StringComparison.InvariantCulture))
                throw new Exception("The file doesn't end with .sql.");

            FileInfo file = ProcessArgs(fileName, variables);

            // create cmd line
            StringBuilder cmd = new StringBuilder(string.Format(
                "OSQL -S \"{0}\" -i \"{1}\" -n",
                /*0*/connStringBuilder.DataSource,
                /*1*/file.ToString()));
            if (connStringBuilder.IntegratedSecurity)
                cmd.Append(" -E");
            else
                cmd.AppendFormat(" -U {0} -P {1}",
                    /*0*/connStringBuilder.UserID,
                    /*1*/connStringBuilder.Password);

            // create the process
            var process = new System.Diagnostics.Process();
            process.StartInfo.WorkingDirectory = Environment.CurrentDirectory;
            process.StartInfo.FileName = "cmd";
            process.StartInfo.CreateNoWindow = false;
            process.StartInfo.UseShellExecute = false;
            process.StartInfo.RedirectStandardOutput = true;
            process.StartInfo.RedirectStandardInput = true;
            process.StartInfo.RedirectStandardError = true;
            process.ErrorDataReceived += new DataReceivedEventHandler(process_ErrorDataReceived);
            process.OutputDataReceived += new DataReceivedEventHandler(process_OutputDataReceived);

            // start the application
            process.Start();
            process.BeginErrorReadLine();
            process.BeginOutputReadLine();
            process.StandardInput.WriteLine("@ECHO OFF");
            process.StandardInput.WriteLine(cmd.ToString());
            process.StandardInput.WriteLine("EXIT");
            process.StandardInput.Flush();
            process.WaitForExit();

            //delete temporary file
            file.Delete();

            //Reading output after waitforexit creates deadlock as available output buffer is fully filled
            //output.Write(process.StandardOutput.ReadToEnd());
        }

        private static void process_OutputDataReceived(object sender, DataReceivedEventArgs e)
        {
            if (e.Data != string.Empty)
            {
                if (StandardOutput == null)
                    Console.WriteLine(e.Data);
                else
                    StandardOutput.WriteLine(e.Data);
            }
        }

        private static void process_ErrorDataReceived(object sender, DataReceivedEventArgs e)
        {
            if (e.Data != string.Empty)
            {
                if (ErrorOutput == null)
                    Console.WriteLine(e.Data);
                else
                    ErrorOutput.WriteLine(e.Data);
            }
        }

        private static FileInfo ProcessArgs(string fileName, Dictionary<string, string> variables)
        {
            FileInfo f = new FileInfo(fileName);
            string SqlCommand = f.OpenText().ReadToEnd();
            foreach (KeyValuePair<string, string> kvp in variables)

```



```

        {
            SqlScript = SqlScript.Replace(String.Format("${0}", kvp.Key), kvp.Value);
        }

        FileInfo newFile = new FileInfo("tmpSql.sql");
        using (var w = newFile.CreateText())
        {
            w.Write(SqlScript);
            w.Flush();
        }
        return newFile;
    }
}

```

[Reply](#)[Quote](#)**beesolo** 0 Points

Thursday, April 01, 2010 9:25 AM

0

Just wanted to say thanks. You suggestion saved me an enormous amount of trouble and time. Can't believe it worked so easily!

[Sign In to Vote](#)[Reply](#)[Quote](#)**philipx4** 0 Points

Thursday, April 22, 2010 1:40 PM

0

Hi,

Here is a simple solution and it works!

[Sign In to Vote](#)**Adds 2 tables to test database**Example SQL Script: [BUILDECM.sql](#)**Works with Express 2005 and 2008**

```

-----START-----
CREATE TABLE [tbl_archive_years](
    [No] [int] IDENTITY(1,1) NOT NULL,
    [Year] [varchar](max) COLLATE Latin1_General_CI_AS NULL,
    [UserId] [varchar](max) COLLATE Latin1_General_CI_AS NULL,
    [Domain] [varchar](max) COLLATE Latin1_General_CI_AS NULL,
    CONSTRAINT [PK_tbl_archive_years] PRIMARY KEY CLUSTERED
)
    [No] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
)
CREATE TABLE [tbl_enquiry_form](
    [No] [int] IDENTITY(1,1) NOT NULL,
    [ItemNo] [varchar](max) COLLATE Latin1_General_CI_AS NULL,
    [ProductName] [varchar](max) COLLATE Latin1_General_CI_AS NULL,
    [RefNumber] [varchar](max) COLLATE Latin1_General_CI_AS NULL,
    [Date] [datetime] NULL,
    [UserId] [varchar](max) COLLATE Latin1_General_CI_AS NULL,
    [Domain] [varchar](max) COLLATE Latin1_General_CI_AS NULL,
    CONSTRAINT [PK_tbl_enquiry_form] PRIMARY KEY CLUSTERED
)
    [No] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
)
-----END-----

```

```
protectedvoid Button1_Click(object sender, EventArgs e)
```

```
{
```

```
//SqlConnection con = new SqlConnection(@"Server=.\SQLEXPRESS;Database=" + txtSqlName.Value + ";User ID=" +
txtSqlLogin.Value + ";Password=" + txtSqlPassword.Text + ";Trusted_Connection=False");
```

```
SqlConnection con =newSqlConnection
```

```
(@"Server=.\SQLEXPRESS;Database=test;UserID=yourusername;Password=yourpassword;Trusted_Connection=False");
```

```

con.Open();
string FilePath;
FilePath = @"C:\Users\Philip\Desktop\BUILDECM.sql";
//FilePath = @"C:\inetpub\wwwroot\dsAdministration\Tables[0].Rows[0][\"Domain\"].ToString() + @"\\httpdocs\users\" +
Session[\"UserId\"].ToString() + @"\\" + Session[\"Domain\"].ToString() + @"\css\" + InkName.Text;
if (File.Exists(FilePath))
{
    StringBuilder strStatement = new StringBuilder(File.ReadAllText(FilePath).ToString());
    SqlCommand command = new SqlCommand(strStatement.ToString(), con);
    command.ExecuteNonQuery();
    con.Close();
}
}

cheers!!!

```

[Reply](#) [Quote](#)



**K Niti** 0 Points

*Monday, May 10, 2010 7:32 AM*



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to Vote](#)

Hi Frnds U can use built in Installer Class to run ur Script

U will find the Details along with the source code download in Below link

[http://www.codeguru.com/Csharp/.NET/net\\_security/encryption/article.php/c9601/](http://www.codeguru.com/Csharp/.NET/net_security/encryption/article.php/c9601/)

[Reply](#) [Quote](#)



**AdamFool** 0 Points

*Thursday, May 20, 2010 4:58 PM*



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I was getting the same msvc80.dll errors on some machines.

It only occurred if the code was executed as part of a unit test.

The same code ran fine in non-test assemblies.

Installing the Visual Studio 2008 SP1 service pack resolved the errors.

[Reply](#) [Quote](#)



**Megha Dave** (Partner) 0 Points

*Thursday, June 10, 2010 12:54 PM*



[Sign In  
to Vote](#)

Hi Friend,

i have used the same namespaces you have mentioned but now on production server it is not working. (SMO is installed on production server already) .

Did you get any solution ? Please help me.

Thanks & Regards,

MEgha

[Reply](#) [Quote](#)



**Arthis** 0 Points

*Monday, September 20, 2010 9:19 AM*



[Sign In  
to Vote](#)

Hello,

At the line:  
server.ConnectionContext.ExecuteNonQuery(script);  
I'm getting this error:

```

Test method IsItScienceFiction.Tests.UserTest.TestMethod1
threw exception:
System.Reflection.TargetInvocationException: Exception has
been thrown by the target of an invocation. --->
System.TypeInitializationException: The type initializer for
'<Module>' threw an exception. --->
<CrImplementationDetails>.ModuleLoadException: The C++
module failed to load during appdomain initialization.
---> System.DllNotFoundException: Unable to load DLL
'MSVCR80.dll': The specified module could not be found.
(Exception from HRESULT: 0x8007007E).

```

with this stack trace:

```

_encode_pointer(Void* )
_initatexit_app_domain()
LanguageSupport.InitializePerAppDomain(LanguageSupport* )
LanguageSupport._Initialize(LanguageSupport* )
LanguageSupport.Initialize(LanguageSupport* )
ThrowModuleLoadException(String errorMessage, Exception
innerException)
ThrowModuleLoadException(String , Exception )
LanguageSupport.Initialize(LanguageSupport* )
cctor()
Microsoft.SqlServer.Management.Common.ExecuteBatch.GetStatements
(String sqlCommand)
System.RuntimeMethodHandle._InvokeMethodFast(Object target, Object[]
arguments, SignatureStruct& sig, MethodAttributes methodAttributes,
RuntimeTypeHandle typeOwner)
System.RuntimeMethodHandle.InvokeMethodFast(Object target, Object[]
arguments, Signature sig, MethodAttributes methodAttributes,
RuntimeTypeHandle typeOwner)
System.Reflection.RuntimeMethodInfo.Invoke(Object obj, BindingFlags
invokeAttr, Binder binder, Object[] parameters, CultureInfo culture, Boolean
skipVisibilityChecks)
System.Reflection.RuntimeMethodInfo.Invoke(Object obj, BindingFlags
invokeAttr, Binder binder, Object[] parameters, CultureInfo culture)
System.RuntimeType.InvokeMember(String name, BindingFlags
bindingFlags, Binder binder, Object target, Object[] providedArgs,
ParameterModifier[] modifiers, CultureInfo culture, String[] namedParams)
System.Type.InvokeMember(String name, BindingFlags invokeAttr, Binder
binder, Object target, Object[] args, CultureInfo culture)
Microsoft.SqlServer.Management.Common.ServerConnection.GetStatements
(String query, ExecutionTypes executionType, Int32& statementsToReverse)
Microsoft.SqlServer.Management.Common.ServerConnection.ExecuteNonQuery
(String sqlCommand, ExecutionTypes executionType)
Microsoft.SqlServer.Management.Common.ServerConnection.ExecuteNonQuery
(String sqlCommand)
IsItScienceFiction.Tests.UserTest.TestMethod1() in C:\Users\J. Pablo
Fernández\Documents\Visual Studio 2008
\Projects\IsItScienceFiction\IsItScienceFiction.Tests\UserTest.cs: line 75

```

I am running Visual Studio 2008 with SQL Server 2008. What am I doing wrong?

Hi Pablo,

I experience the same issue. Did you ever find a solution?

Yoann

[Reply](#)   [Quote](#)



**John At Han** (Partner) 0 Points

Friday, December 03, 2010 7:26 PM



0

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```
SQLscript = SQLscript.Replace("GO", "");
```

Warning, replacing systematically all GO in the text could break the Script, Imagine that you have to SELECT CATEGORy FROM WHATEVER

John

[Reply](#)[Quote](#)**Urvang\_Joshi\_fe6d51** 30 Points*Sunday, December 12, 2010 10:06 PM*

0

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Hi, one question: How do I find out the output generated by a command (e.g. a select command) in this example?

[Reply](#)[Quote](#)**DeJava** 0 Points*Saturday, December 18, 2010 11:20 PM*

0

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to Vote](#)

Here to work with GO:

To split the GO (in assumption that GO syntax in a line):

```
List<string> cmds = new List<string>();
if (File.Exists(qfile))
{
    TextReader tr = new StreamReader(qfile);
    string line = "";
    string cmd = "";
    while ((line = tr.ReadLine()) != null)
    {
        if (line.Trim().ToUpper() == "GO")
        {
            cmds.Add(cmd);
            cmd = "";
        }
        else
        {
            cmd += line + "\n";
        }
    }
    if (cmd.Length > 0)
    {
        cmds.Add(cmd);
        cmd = "";
    }
    tr.Close();
}

Then execute them in a connection to SQL:

if (cmds.Count > 0)
{
    SqlCommand command = new SqlCommand();
    command.Connection = new SqlConnection(cs);
    command.CommandType = System.Data.CommandType.Text;
    command.Connection.Open();
    for (int i = 0; i < cmds.Count; i++)
    {
        command.CommandText = cmds[i];
        command.ExecuteNonQuery();
    }
}
```

[Reply](#)[Quote](#)**Niven Sookharan** 0 Points



Tuesday, March 29, 2011 7:55 AM

0

Great works perfectly :)

[Sign In to Vote](#)[Reply](#)[Quote](#)**Cor Ligthert** (MCC, MVP) 89,860 Points

Monday, May 09, 2011 8:10 AM

0

Hello Bex,

[Sign In to Vote](#)

It is very simple, you can start from C# any SP.

you have to instance a command for your database provider

```
YourProviderCommand cmd = new YourProviderCommand("file.SQL");
to add the connectionString to that one
cmd.ConnectionString = "myConnectionsTring";
to tell that it is an SP
cmd.CommandType = CommandType.StoredProcedure;
```

And run the command with

```
cmd.ExecuteNonQuery();
```

That is all, quite simple

Success

Cor

[Reply](#)[Quote](#)**Saravanan AR** 0 Points

Sunday, November 20, 2011 1:26 AM

0

[Sign In to Vote](#)

hi boban,

thanks for the simple solution. it works perfectly when my machine and DB server are in the same domain. my problem now is, i'm executing this console application from a machine (name: X, user id: abc, domain D1). the SQL server is in another machine (name: Y, domain: D2). I use VPN to connect to machine Y with user id 'abc' and work on SQL in remote desktop. how can i run sql scripts across domains? I use this in a custom activity in my TFS build template as the last step to run the scripts in the target database which is in domain D2.

i'm getting this error: "A network-related or instance-specific error occurred while establishing a connection to SQL Server. The server was not found or was not accessible. Verify that the instance name is correct and that SQL Server is configured to allow remote connections. (provider: SQL Network Interfaces, error: 26 - Error Locating Server/Instance Specified)"

is it possible to connect to the DB using the admin user ID of machine Y in domain D2?

[Reply](#)[Quote](#)**msdnbee** 0 Points

Wednesday, December 21, 2011 10:47 AM

0

[Sign In to Vote](#)

Hi,

**To add the below assembly/interface**

```
using Microsoft.SqlServer.Management.Common;
using Microsoft.SqlServer.Management.Smo;
```

which COM object do i need to reference.

I am using VS 2010 Express.

sami

[Reply](#) [Quote](#)



**Surendrasinh Rathod** .Net Developer,Silcore T... 0 Points

Friday, May 18, 2012 5:13 AM

0

Thanks for Post above code....I want to ask that can i apply same code to run .sqlce file in .Net C#.i am using SqlCe 3.5 and Visual Studio 2008..plz reply..thanks in advance..

[Sign In to Vote](#)

[Reply](#) [Quote](#)



**JohnDetroit** 0 Points

Monday, June 18, 2012 11:01 AM

0

Try this article: [SQL Connection in C# using SqlConnection](#)

[Sign In to Vote](#)

[Reply](#) [Quote](#)



**Star Vignesh** 0 Points

Monday, August 27, 2012 8:59 AM

0

[Sign In to Vote](#)

You can't run files directly, with just specifying file name. You must first read it's content in a string and then execute CommandText command. But this will work as long you don't have GO statement in your sql script. From your post it looks like that SqlCommand is not usefull because scripts that include DDL command are completed with batch finalizer GO command. Luckily, since SQL Server 2005, you can use smo library to do this operation and not use batch command and osql connection as previously. Here is how to do it:

```
using System.Data.SqlClient;
using System.IO;
using Microsoft.SqlServer.Management.Common;
using Microsoft.SqlServer.Management.Smo;
namespace ConsoleApplication1
{
    class Program
    {
        static void Main(string[] args)
        {
            string sqlConnectionString = "Data Source=
(local);Initial Catalog=AdventureWorks;Integrated
Security=True";
            FileInfo file = new FileInfo("C:\\myscript.sql");
            string script = file.OpenText().ReadToEnd();
            SqlConnection conn = new SqlConnection
(sqlConnectionString);
            Server server = new Server(newServerConnection
(conn));
            server.ConnectionContext.ExecuteNonQuery(script);
        }
    }
}
```

Very useful code...

[Reply](#) [Quote](#)

