










# System.Data.Generic Namespace

Provides methods and classes for data access.


## ▲ Classes

	Class	Description
	<a href="#">ConnectionStringBuilder</a>	Builds a connection to a SQL server.
	<a href="#">DataSource</a>	Enables easy data access to SQL server.
	<a href="#">GenericMapAttribute</a>	
	<a href="#">IgnorePropertyAttribute</a>	Instructs the <a href="#">DataSourceFormatter</a> method not to serialize/deserialize the public field.
	<a href="#">SerializationSettings</a>	Provides settings for the Data Serializer.
	<a href="#">SingleNestedObjectAttribute</a>	
	<a href="#">SQLInjectionInspector</a>	Injection inspector class to enable safe SQL statements.
	<a href="#">TransactionContext</a>	Provides context of any transaction.

## ▾ Delegates

	Delegate	Description
	<a href="#">DataSourceItemCallbackDelegate</a>	Delegated method for call back event methods. See also <a href="#">ExecuteCallback</a> .

## ▾ Enumerations

	Enumeration	Description
	<a href="#">SingleNestedObjectEnum</a>	

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# ConnectionStringBuilder Class

Builds a connection to a SQL server.

## ▲ Inheritance Hierarchy

[SystemObject](#) [System.Data.GenericConnectionStringBuilder](#)

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax



[C#](#) [VB](#) [C++](#) [F#](#)

[Copy](#)

```
public sealed class ConnectionStringBuilder
```







The `ConnectionStringBuilder` type exposes the following members.

## ▲ Constructors

	Name	Description
	<a href="#">ConnectionStringBuilder(String, String)</a>	Returns a new instance of the <code>ConnectionStringBuilder</code> class.
	<a href="#">ConnectionStringBuilder(String, String, NetworkCredential)</a>	Returns a new instance of the <code>ConnectionStringBuilder</code> class, specifying credentials.




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## ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetSqlExpress</a>	Returns a connectionstring for a SQL Express.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns the connection string. (Overrides <a href="#">ObjectToString</a> .)




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## ▲ Properties

	Name	Description
	<a href="#">Credentials</a>	Gets or sets the username and password of the connection.
	<a href="#">Database</a>	Gets or sets the value of the database.
	<a href="#">IntegratedSecurity</a>	Gets or sets if the connection use integrated security

capabilities.

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	<a href="#">MultipleActiveResultSets</a>	Gets or sets if the connection enables multiple active resultsets.
	<a href="#">Server</a>	Gets the value of the server.
	<a href="#">TrustedConnection</a>	Gets or sets if the connection use trusted connection capabilities.

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## ▲ Remarks

## ▲ See Also

Reference



[System.Data.Generic Namespace](#)

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# ConnectionStringBuilder Constructor

## ▲ Overload List

	Name	Description
	<a href="#">ConnectionStringBuilder(String, String)</a>	Returns a new instance of the ConnectionStringBuilder class.
	<a href="#">ConnectionStringBuilder(String, String, NetworkCredential)</a>	Returns a new instance of the ConnectionStringBuilder class, specifying credentials.

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## ▲ See Also

Reference

[ConnectionStringBuilder Class](#)

[System.Data.Generic Namespace](#)

# ConnectionStringBuilder Constructor (String, String)

Returns a new instance of the ConnectionStringBuilder class.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public ConnectionStringBuilder(  
    string server,  
    string database  
)
```

## Parameters

*server*

Type: [SystemString](#)

Server address of the connection.

*database*

Type: [SystemString](#)

Database of the connection.

## ▲ Remarks

## ▲ See Also

## Reference

[ConnectionStringBuilder Class](#)

[ConnectionStringBuilder Overload](#)

## System.Data.Generic Namespace

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# ConnectionStringBuilder Constructor (String, String, NetworkCredential)

Returns a new instance of the ConnectionStringBuilder class, specifying credentials.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public ConnectionStringBuilder(  
    string server,  
    string database,  
    NetworkCredential credentials  
)
```

## Parameters

*server*

Type: [SystemString](#)

Server address of the connection.

*database*

Type: [SystemString](#)

Database of the connection.

*credentials*

Type: [System.Net.NetworkCredential](#)

Username and password for the connection.

## ▸ Remarks

## ▸ See Also

### Reference

[ConnectionStringBuilder Class](#)

[ConnectionStringBuilder Overload](#)

[System.Data.Generic Namespace](#)






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# ConnectionStringBuilder Methods

The [ConnectionStringBuilder](#) type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetSqlExpress</a>	Returns a connectionstring for a SQL Express.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns the connection string. (Overrides <a href="#">ObjectToString</a> .)

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## ▲ See Also

### Reference

[ConnectionStringBuilder Class](#)  
[System.Data.Generic Namespace](#)



# ConnectionStringBuilderGetSqlExpress Method

Returns a connectionstring for a SQL Express.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#

VB

C++

F#

[Copy](#)

```
public static ConnectionStringBuilder GetSqlExpress(  
    string database  
)
```

## Parameters

*database*

Type: [SystemString](#)

Name of database.

## Return Value

Type: [ConnectionStringBuilder](#)

A new ConnectionStringBuilder class for SQL Express.

## ▲ Remarks

## ▲ See Also

## Reference

[ConnectionStringBuilder Class](#)

[System.Data.Generic Namespace](#)

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# ConnectionStringBuilder.ToString Method

Returns the connection string.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public override string ToString()
```

## Return Value

Type: [String](#)

String. Connection string for the SQL server.

## ▲ Remarks

## ▲ See Also

## Reference

[ConnectionStringBuilder Class](#)







[System.Data.Generic Namespace](#)

# ConnectionStringBuilder

## Properties

The [ConnectionStringBuilder](#) type exposes the following members.

### ▲ Properties

	Name	Description
	<a href="#">Credentials</a>	Gets or sets the username and password of the connection.
	<a href="#">Database</a>	Gets or sets the value of the database.
	<a href="#">IntegratedSecurity</a>	Gets or sets if the connection use integrated security capabilities.
	<a href="#">MultipleActiveResultSets</a>	Gets or sets if the connection enables multiple active resultsets.
	<a href="#">Server</a>	Gets the value of the server.
	<a href="#">TrustedConnection</a>	Gets or sets if the connection use trusted connection capabilities.

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### ▲ See Also



## Reference

[ConnectionStringBuilder Class](#)

[System.Data.Generic Namespace](#)

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# ConnectionStringBuilderCredentials Property

Gets or sets the username and password of the connection.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#

VB

C++

F#

[Copy](#)

```
public NetworkCredential Credentials { get; set; }
```

## Property Value

Type: [NetworkCredential](#)

## Return Value

Type: [NetworkCredential](#)

## ▲ Remarks

## ▲ See Also

## Reference

[ConnectionStringBuilder Class](#)

[System.Data.Generic Namespace](#)

# ConnectionStringBuilderDatabase Property

Gets or sets the value of the database.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public string Database { get; set; }
```

## Property Value

Type: [String](#)

## Return Value

Type: [String](#)

## ▲ Remarks

## ▲ See Also

## Reference

[ConnectionStringBuilder Class](#)

[System.Data.Generic Namespace](#)

# ConnectionStringBuilderIntegratedSecurityProperty

Gets or sets if the connection use integrated security capabilities.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public bool IntegratedSecurity { get; set; }
```

## Property Value

Type: [Boolean](#)

## Return Value

Type: [Boolean](#)

## ▲ Remarks

## ▲ See Also

## Reference

[ConnectionStringBuilder Class](#)

[System.Data.Generic Namespace](#)

# ConnectionStringBuilderMultipleActiveProperty

Gets or sets if the connection enables multiple active resultsets.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#

VB

C++

F#

[Copy](#)

```
public bool MultipleActiveResultSets { get; set; }
```

## Property Value

Type: [Boolean](#)

## Return Value

Type: [Boolean](#)

## ▲ Remarks

## ▲ See Also

## Reference

[ConnectionStringBuilder Class](#)

[System.Data.Generic Namespace](#)

# ConnectionStringBuilderServer Property

Gets the value of the server.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public string Server { get; }
```

## Property Value

Type: [String](#)

## Return Value

Type: [String](#)

## ▲ Remarks

## ▲ See Also

## Reference

[ConnectionStringBuilder Class](#)

[System.Data.Generic Namespace](#)

# ConnectionStringBuilderTrustedConnectionProperty

Gets or sets if the connection use trusted connection capabilities.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public bool TrustedConnection { get; set; }
```

## Property Value

Type: [Boolean](#)

## Return Value

Type: [Boolean](#)

## ▲ Remarks

## ▲ See Also

## Reference

[ConnectionStringBuilder Class](#)

[System.Data.Generic Namespace](#)

# DataSource Class

Enables easy data access to SQL server.

## ▾ Inheritance Hierarchy

[SystemObject](#) [System.Data.GenericDataSource](#)

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▾ Syntax



[C#](#) [VB](#) [C++](#) [F#](#)

[Copy](#)

```
public sealed class DataSource : IDisposable
```

The `DataSource` type exposes the following members.


## ▾ Constructors

	Name	Description
	<a href="#">DataSource(String)</a>	Returns a new instance of the <code>DataSource</code> class, and opens the connection immediately.
	<a href="#">DataSource(String, Boolean)</a>	Returns a new instance of the <code>DataSource</code>



class.









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	<a href="#">DataSource(ConnectionStringBuilder, Boolean)</a>	Returns a new instance of the DataSource class, using a connectionstring builder.
---	--	---












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## ▲ Methods

	Name	Description
	<a href="#">ClearPool</a>	Empties the connection pool associated with the current connection.
 	<a href="#">ClearPools</a>	Empties all connection pool(s).
	<a href="#">Close</a>	<b>Obsolete.</b> Close the data connection.
	<a href="#">CommitTransaction</a>	<b>Obsolete.</b> Commits a transaction from the specified context.
	<a href="#">CreateTransaction</a>	Create a new transaction context.
	<a href="#">CreateTransaction(String)</a>	Create a new transaction context and leaves the connection open.
	<a href="#">Dispose</a>	Releases all resources used by the Component.

---







	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
 	<a href="#">EscapeSql(String)</a>	Escapes standard SQL characters.
 	<a href="#">EscapeSql(String, Object)</a>	<b>Obsolete.</b> Escapes standard SQL characters. Can be used as <code>String.Format</code> .
	<a href="#">ExecuteCallback</a>	Executes the query, and raises a callback of <a href="#">ItemCallbackDelegate</a> for each item it iterates.
	<a href="#">ExecuteDataSet</a>	Executes the SQL query and returns a <code>DataSet</code> .
	<a href="#">ExecuteDataTable</a>	Sends the SQL Query to the Connection and returns a <code>DataTable</code> .
	<a href="#">ExecuteDictionary</a>	Executes the SQL statement and returns a dictionary of the first row. Keys in the dictionary are field names and values associated.
	<a href="#">ExecuteListT</a>	Executes the query, and returns a collection of the first column.
	<a href="#">ExecuteNObjectsT</a>	Executes the query, and returns a collection of object

		by the type T; hieratically compounded by the provided SQL JOIN and realted classes.
	<code>ExecuteNoReturn(String)</code>	Executes the Query against the datasource without returning any value.
	<code>ExecuteNoReturn(String, TransactionContext)</code>	Executes the Query against the datasource without returning any value. Supports transactions.
	<code>ExecuteObjectT</code>	Executes the query, and returns a object by the type T.
	<code>ExecuteObjectsT</code>	Executes the query, and returns a collection of object by the type T.
	<code>ExecuteReader</code>	Sends the SQL Query to the Connection and builds a SqlDataReader.
	<code>ExecuteScalar(String)</code>	Executes the query, and returns the first column of the first row in the result set returned by the query.
	<code>ExecuteScalarT(String)</code>	Executes the query, and returns the first column of the first row in the result set returned by the query.
	<code>ExecuteScalarT(String, T)</code>	Executes the query, and returns the first column of

		the first row in the result set returned by the query.
	<a href="#">ExecuteScalarT(String, TransactionContext, T)</a>	Executes the query, and returns the first column of the first row in the result set returned by the query. Supports transactions.
	<a href="#">ExecuteXmlReader</a>	Executes the Query against the datasource and returns a XML reader.
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Open</a>	<b>Obsolete.</b> Open the data connection.
 	<a href="#">PrepareSql</a>	Formats a SQL statement based on the data type of the <i>parameters</i> parameters.
	<a href="#">RollbackTransaction</a>	<b>Obsolete.</b> Rolls back a transaction from the specified context.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

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## ▲ Properties

	Name	Description
	<a href="#">ConnectionString</a>	<b>Obsolete.</b> Returns the connection state of the data connection.
	<a href="#">ConnectionString</a>	Returns the connection string of the current data connection.
 	<a href="#">Current</a>	Returns a new instance of the DataSource class using the connection string, specific in the app.config.
 	<a href="#">SerializationSettings</a>	Returns the settings for serialization.

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## ▲ Remarks

Enables global data access by editing web.config, app.config or the Azure configuration file, and adding GlobalDataSource to the appSettings configuration elements.

## ▲ Examples

[Copy](#)

```
<appSettings><add key="GlobalDataSource" value="Se
```



Usage example 1 (get instance into variable):

[Copy](#)

```
DataSource source = DataSource.Current();
```

Usage example 2 (use static method):

[Copy](#)

```
DataSource.Current.ExecuteNoReturn("select * from table");
```

Usage example 3 (create an instance):

[Copy](#)

```
DataSource source = new DataSource("Server=.\SQLEXPRESS");  
source.ExecuteNoReturn("select * from table");
```

## ▲ See Also




Reference

[System.Data.Generic Namespace](#)

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# DataSource Constructor

## ▲ Overload List

	Name	Description
	<a href="#">DataSource(String)</a>	Returns a new instance of the DataSource class, and opens the connection immediately.
	<a href="#">DataSource(String, Boolean)</a>	Returns a new instance of the DataSource class.
	<a href="#">DataSource(ConnectionStringBuilder, Boolean)</a>	Returns a new instance of the DataSource class, using a connectionstring builder.

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## ▲ See Also

Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

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# DataSource Constructor (String)

Returns a new instance of the DataSource class, and opens the connection immediately.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public DataSource(  
    string connectionString  
)
```

## Parameters

*connectionString*

Type: [SystemString](#)

Connection string to open.

## ▲ Remarks

## ▲ See Also

## Reference

[DataSource Class](#)

[DataSource Overload](#)

[System.Data.Generic Namespace](#)

# DataSource Constructor (String, Boolean)

Returns a new instance of the DataSource class.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public DataSource(  
    string connectionString,  
    bool delayOpening  
)
```

## Parameters

*connectionString*

Type: [SystemString](#)

Connection string to open.

*delayOpening*

Type: [SystemBoolean](#)

Boolean. Indicates if the data connection should be opened upon initialization of the DataSource class.

## ▲ Remarks

Use [Open](#) method to open later.

## ▲ See Also

Reference

DataSource Class  
DataSource Overload  
System.Data.Generic Namespace

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# DataSource Constructor (ConnectionStringBuilder, Boolean)

Returns a new instance of the DataSource class, using a connectionstring builder.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public DataSource(  
    ConnectionStringBuilder connection,  
    bool delayOpening  
)
```

## Parameters

*connection*

Type: [System.Data.GenericConnectionStringBuilder](#)

ConnectionStringBuilder class for the connection.

*delayOpening*

Type: [SystemBoolean](#)

Boolean. Indicates if the data connection should be opened upon initialization of the DataSource class.

## ▲ Remarks

## ▲ See Also

## Reference

[DataSource Class](#)

[DataSource Overload](#)

[System.Data.Generic Namespace](#)










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# DataSource Methods

The [DataSource](#) type exposes the following members.









## ▲ Methods

	Name	Description
	<a href="#">ClearPool</a>	Empties the connection pool associated with the current connection.
 	<a href="#">ClearPools</a>	Empties all connection pool(s).
	<a href="#">Close</a>	<b>Obsolete.</b> Close the data connection.
	<a href="#">CommitTransaction</a>	<b>Obsolete.</b> Commits a transaction from the specified context.
	<a href="#">CreateTransaction</a>	Create a new transaction context.
	<a href="#">CreateTransaction(String)</a>	Create a new transaction context and leaves the connection open.
	<a href="#">Dispose</a>	Releases all resources used by the Component.
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> .










(Inherited from [Object](#).)

	<a href="#">EscapeSql(String)</a>	Escapes standard SQL characters.
	<a href="#">EscapeSql(String, Object)</a>	<b>Obsolete.</b> Escapes standard SQL characters. Can be used as <code>String.Format</code> .
	<a href="#">ExecuteCallback</a>	Executes the query, and raises a callback of <a href="#">ItemCallbackDelegate</a> for each item it iterates.
	<a href="#">ExecuteDataSet</a>	Executes the SQL query and returns a <code>DataSet</code> .
	<a href="#">ExecuteDataTable</a>	Sends the SQL Query to the Connection and returns a <code>DataTable</code> .
	<a href="#">ExecuteDictionary</a>	Executes the SQL statement and returns a dictionary of the first row. Keys in the dictionary are field names and values associated.
	<a href="#">ExecuteListT</a>	Executes the query, and returns a collection of the first column.
	<a href="#">ExecuteNObjectsT</a>	Executes the query, and returns a collection of object by the type T; hieratically compounded by the provided SQL JOIN and

related classes.

	<code>ExecuteNoReturn(String)</code>	Executes the Query against the datasource without returning any value.
	<code>ExecuteNoReturn(String, TransactionContext)</code>	Executes the Query against the datasource without returning any value. Supports transactions.
	<code>ExecuteObjectT</code>	Executes the query, and returns a object by the type T.
	<code>ExecuteObjectsT</code>	Executes the query, and returns a collection of object by the type T.
	<code>ExecuteReader</code>	Sends the SQL Query to the Connection and builds a SqlDataReader.
	<code>ExecuteScalar(String)</code>	Executes the query, and returns the first column of the first row in the result set returned by the query.
	<code>ExecuteScalarT(String)</code>	Executes the query, and returns the first column of the first row in the result set returned by the query.
	<code>ExecuteScalarT(String, T)</code>	Executes the query, and returns the first column of the first row in the result set returned by the query.



	<a href="#">ExecuteScalarT(String, TransactionContext, T)</a>	Executes the query, and returns the first column of the first row in the result set returned by the query. Supports transactions.
	<a href="#">ExecuteXmlReader</a>	Executes the Query against the datasource and returns a XML reader.
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Open</a>	<b>Obsolete.</b> Open the data connection.
 	<a href="#">PrepareSql</a>	Formats a SQL statement based on the data type of the <i>parameters</i> parameters.
	<a href="#">RollbackTransaction</a>	<b>Obsolete.</b> Rolls back a transaction from the specified context.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

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▲ [See Also](#)

## Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

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# DataSourceClearPool Method

Empties the connection pool associated with the current connection.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public void ClearPool()
```

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourceClearPools Method

Empties all connection pool(s).

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public static void ClearPools()
```

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourceClose Method

**Note:** This API is now obsolete.

Close the data connection.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
[ObsoleteAttribute("You can remove Open. Does not |  
public void Close() |
```

## ▲ Remarks

## ▲ See Also

Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourceCommitTransaction Method

**Note: This API is now obsolete.**

Commits a transaction from the specified context.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
[ObsoleteAttribute("Please use Commit() method on  
public void CommitTransaction(  
    TransactionContext context  
)
```

## Parameters

*context*

Type: [System.Data.GenericTransactionContext](#)

Context of the transaction.

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)



[System.Data.Generic Namespace](#)

---

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# DataSourceCreateTransaction Method

## ▲ Overload List

	Name	Description
	<a href="#">CreateTransaction</a>	Create a new transaction context.
	<a href="#">CreateTransaction(String)</a>	Create a new transaction context and leaves the connection open.

[Top](#)

## ▲ See Also

Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)



# DataSourceCreateTransaction Method

Create a new transaction context.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public TransactionContext CreateTransaction()
```

## Return Value

Type: [TransactionContext](#)

Context of the transaction to pass to subsequent requests.

## ▲ Remarks

## ▲ See Also

## Reference

[DataSource Class](#)

[CreateTransaction Overload](#)

[System.Data.Generic Namespace](#)

# DataSourceCreateTransaction Method (String)

Create a new transaction context and leaves the connection open.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public TransactionContext CreateTransaction(  
    string name  
)
```

## Parameters

*name*

Type: [SystemString](#)

Name of the transaction

## Return Value

Type: [TransactionContext](#)

Context of the transaction to passe to subsequent requests.

## ▲ Remarks

## ▲ See Also

## Reference

[DataSource Class](#)

[CreateTransaction Overload](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceDispose Method

Releases all resources used by the Component.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public void Dispose()
```

Implements

[IDisposable.Dispose](#)

## ▲ Remarks

## ▲ See Also



Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourceEscapeSql Method

## ▲ Overload List

	Name	Description
	<a href="#">EscapeSql(String)</a>	Escapes standard SQL characters.
	<a href="#">EscapeSql(String, Object)</a>	<b>Obsolete.</b> Escapes standard SQL characters. Can be used as String.Format.

[Top](#)

## ▲ See Also

Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourceEscapeSql Method (String)

Escapes standard SQL characters.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public static string EscapeSql(  
    string sql  
)
```

## Parameters

*sql*

Type: [SystemString](#)

SQL statement to escape.

## Return Value

Type: [String](#)

Escaped SQL string.

## ▲ Remarks

Replaces ' with ''.

## ▲ See Also

### Reference

[DataSource Class](#)

EscapeSql Overload  
System.Data.Generic Namespace

---

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# DataSourceEscapeSql Method (String, Object)

**Note:** This API is now obsolete.

Escapes standard SQL characters. Can be used as String.Format.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
[ObsoleteAttribute("EscapeSql is obsolete and embed  
public static string EscapeSql(  
    string sql,  
    params Object[] args  
)
```

## Parameters

*sql*

Type: [SystemString](#)

SQL statement to escape.

*args*

Type: [SystemObject](#)

Arguments to format.

## Return Value

Type: [String](#)

Escaped SQL string.



## ▲ Remarks

Replaces ' with ''.

## ▲ See Also

### Reference

[DataSource Class](#)

[EscapeSql Overload](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteCallback Method

Executes the query, and raises a callback of [ItemCallbackDelegate](#) for each item it iterates.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public void ExecuteCallback(  
    string SQL,  
    DataSourceItemCallbackDelegate callback  
)
```

## Parameters

### SQL

Type: [SystemString](#)

SQL statement to execute.

### callback

Type: [System.Data.GenericDataSourceItemCallbackDelegate](#)  
[ItemCallbackDelegate](#) method.

## ▲ Exceptions

Exception	Condition
<a href="#">ArgumentNullException</a>	In case the SQL is null.
<a href="#">SqlException</a>	In case the underlying connection cause an

exception.

---

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteDataSet Method

Executes the SQL query and returns a DataSet.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public DataSet ExecuteDataSet(  
    string SQL  
)
```

## Parameters

*SQL*

Type: [SystemString](#)

SQL query to execute.

## Return Value

Type: [DataSet](#)

DataSet of the data.

## ▲ Exceptions

Exception	Condition
<a href="#">ArgumentNullException</a>	In case the SQL is null.
<a href="#">SqlException</a>	In case the underlying connection cause an exception.

## ▸ Remarks

## ▸ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteDataTable Method

Sends the SQL Query to the Connection and returns a DataTable.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public DataTable ExecuteDataTable(  
    string SQL  
)
```

## Parameters

*SQL*

Type: [SystemString](#)

SQL statement to execute.

## Return Value

Type: [DataTable](#)

DataTable.

## ▲ Exceptions

Exception	Condition
<a href="#">ArgumentNullException</a>	In case the SQL is null.
<a href="#">SqlException</a>	In case the underlying connection cause an exception.

## ▸ Remarks

## ▸ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteDictionary Method

Executes the SQL statement and returns a dictionary of the first row. Keys in the dictionary are field names and values associated.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public Dictionary<string, Object> ExecuteDictionary(  
    string SQL  
)
```

## Parameters

### SQL

Type: [SystemString](#)

SQL statement to execute.

## Return Value

Type: [DictionaryString](#), [Object](#)

Dictionary class.

## ▲ Exceptions

Exception	Condition
<a href="#">ArgumentNullException</a>	In case the SQL is null.
<a href="#">SqlException</a>	In case the underlying connection cause an



exception.

---

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteListT Method

Executes the query, and returns a collection of the first column.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public List<T> ExecuteList<T>(
    string SQL
)
where T : class
```

## Parameters

*SQL*

Type: [SystemString](#)

SQL statement to execute.

## Type Parameters

*T*

Type of the first column.

## Return Value

Type: [ListT](#)

List of first column

## ▲ Exceptions

Exception	Condition
<a href="#">ArgumentNullException</a>	In case the SQL is null.

[SqlException](#)

In case the underlying connection cause an exception.

---

## ▲ Remarks

Specifying a SQL statement with multiple columns will not change the output. Only the first column will be returned.

## ▲ See Also

Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteNObjectsT Method

Executes the query, and returns a collection of object by the type T; hieratically compounded by the provided SQL JOIN and realted classes.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public List<T> ExecuteNObjects<T>(
    string SQL
)
where T : class
```

## Parameters

### SQL

Type: [SystemString](#)

SQL statement to execute. SQL statement must have an 'ORDER BY' statement. Should be a JOIN statement, otherwise please use ExecuteObjects for performance.

## Type Parameters

### T

Type to return in list. This must be a managed object.

## Return Value

Type: [ListT](#)

Collections of object, type T - populated based on class references and

provided tables.

## ▲ Exceptions

Exception	Condition
<a href="#">ArgumentNullException</a>	In case the SQL is null.
<a href="#">SqlException</a>	In case the underlying connection cause an exception.

## ▲ Remarks

THIS FEATURE IS A PRE-RELEASE. MAY NOT BE STABLE.

## ▲ See Also

Reference



[DataSource Class](#)

[System.Data.Generic Namespace](#)

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# DataSourceExecuteNoReturn Method

## ▲ Overload List

	Name	Description
	<a href="#">ExecuteNoReturn(String)</a>	Executes the Query against the datasource without returning any value.
	<a href="#">ExecuteNoReturn(String, TransactionContext)</a>	Executes the Query against the datasource without returning any value. Supports transactions.

[Top](#)

## ▲ See Also

Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourceExecuteNoReturn Method (String)

Executes the Query against the datasource without returning any value.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public void ExecuteNoReturn(  
    string SQL  
)
```

## Parameters

SQL

Type: [SystemString](#)

SQL statement to execute.

## ▲ Exceptions

Exception	Condition
<a href="#">ArgumentNullException</a>	In case the SQL is null.
<a href="#">SqlException</a>	In case the underlying connection cause an exception.

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)

[ExecuteNoReturn Overload](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteNoReturn Method (String, TransactionContext)

Executes the Query against the datasource without returning any value. Supports transactions.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public void ExecuteNoReturn(  
    string SQL,  
    TransactionContext transaction  
)
```

## Parameters

### SQL

Type: [SystemString](#)

SQL statement to execute.

### *transaction*

Type: [System.Data.GenericTransactionContext](#)

Context of the transaction.

## ▲ Remarks

The connection will remain open, until the TransactionContext is disposed or RollBack/Commit is called.

## ▲ See Also

### Reference

[DataSource Class](#)

[ExecuteNoReturn Overload](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteObjectT Method

Executes the query, and returns a object by the type T.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public T ExecuteObject<T>(
    string SQL
)
where T : class
```

## Parameters

### SQL

Type: [SystemString](#)

SQL statement to execute.

## Type Parameters

### T

Type of object to return.

## Return Value

Type: *T*

Object of type T.

## ▲ Exceptions

Exception	Condition
-----------	-----------

[ArgumentNullException](#) In case the SQL is null.

---

[SqlException](#) In case the underlying connection cause an exception.

---

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteObjectsT Method

Executes the query, and returns a collection of object by the type T.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public List<T> ExecuteObjects<T>(
    string SQL
)
where T : class
```

## Parameters

### SQL

Type: [SystemString](#)

SQL statement to execute.

## Type Parameters

### T

Type to return in list. This must be a managed object.

## Return Value

Type: [ListT](#)

Collections of object, type T.

## ▲ Exceptions

Exception	Condition
-----------	-----------

[ArgumentNullException](#) In case the SQL is null.

---

[SqlException](#) In case the underlying connection cause an exception.

---

## ▲ Remarks

ExecuteObjects does not support standardized types, as reflection is reversed. This methods tries to match properties of the T type to the data source. Use [ExecuteList](#) or [ExecuteDictionary](#).

## ▲ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteReader

## Method

Sends the SQL Query to the Connection and builds a SqlDataReader.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

### ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public IDataReader ExecuteReader(  
    string SQL  
)
```

### Parameters

*SQL*

Type: [SystemString](#)

SQL Query to execute.

### Return Value

Type: [IDataReader](#)

SqlDataReader.

### ▲ Exceptions

Exception	Condition
<a href="#">ArgumentNullException</a>	In case the SQL is null.
<a href="#">SqlException</a>	In case the underlying connection cause an exception.

## ▲ Remarks

The ExecuteReader method keeps the connection open. Dispose of the [DbDataReader](#) will close the connection.

## ▲ See Also

Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)





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# DataSourceExecuteScalar Method

## ▲ Overload List

	Name	Description
	<a href="#">ExecuteScalarT(String)</a>	Executes the query, and returns the first column of the first row in the result set returned by the query.
	<a href="#">ExecuteScalar(String)</a>	Executes the query, and returns the first column of the first row in the result set returned by the query.
	<a href="#">ExecuteScalarT(String, T)</a>	Executes the query, and returns the first column of the first row in the result set returned by the query.
	<a href="#">ExecuteScalarT(String, TransactionContext, T)</a>	Executes the query, and returns the first column of the first row in the result set returned by the query. Supports transactions.

[Top](#)

## ▲ See Also

Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

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# DataSourceExecuteScalarT Method (String)

Executes the query, and returns the first column of the first row in the result set returned by the query.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public T ExecuteScalar<T>(
    string SQL
)
```

## Parameters

### SQL

Type: [SystemString](#)

Transact-SQL statement to execute against the connection.

## Type Parameters

### T

Type to return.

## Return Value

Type: *T*

The first column of the first row in the result set, or a null reference (Nothing in Visual Basic) if the result set is empty. Returns a maximum of 2033 characters.

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)

[ExecuteScalar Overload](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceExecuteScalar Method (String)

Executes the query, and returns the first column of the first row in the result set returned by the query.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public Object ExecuteScalar(  
    string SQL  
)
```

## Parameters

### SQL

Type: [SystemString](#)

Transact-SQL statement to execute against the connection.

## Return Value

Type: [Object](#)

The first column of the first row in the result set, or a null reference (Nothing in Visual Basic) if the result set is empty. Returns a maximum of 2033 characters.

## ▲ Remarks

## ▲ See Also

## Reference

DataSource Class  
ExecuteScalar Overload  
System.Data.Generic Namespace

---

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# DataSourceExecuteScalarT Method (String, T)

Executes the query, and returns the first column of the first row in the result set returned by the query.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public T ExecuteScalar<T>(
    string SQL,
    T defaultValue
)
```

## Parameters

### SQL

Type: [SystemString](#)

Transact-SQL statement to execute against the connection.

### *defaultValue*

Type: *T*

Default value to return in case of no return.

## Type Parameters

### *T*

Type to return.

## Return Value

Type: *T*

The first column of the first row in the result set, or a null reference

(Nothing in Visual Basic) if the result set is empty. Returns a maximum of 2033 characters.

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)

[ExecuteScalar Overload](#)

[System.Data.Generic Namespace](#)

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# DataSourceExecuteScalarT

## Method (String, TransactionContext, T)

Executes the query, and returns the first column of the first row in the result set returned by the query. Supports transactions.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

### ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public T ExecuteScalar<T>(
    string SQL,
    TransactionContext transaction,
    T defaultValue
)
```

### Parameters

#### SQL

Type: [SystemString](#)

Transact-SQL statement to execute against the connection.

#### *transaction*

Type: [System.Data.GenericTransactionContext](#)

Context of the transaction.

#### *defaultValue*

Type: *T*

Default value to return in case of no return.

### Type Parameters

*T*

Type to return.

## Return Value

Type: *T*

The first column of the first row in the result set, or a null reference (Nothing in Visual Basic) if the result set is empty. Returns a maximum of 2033 characters.

## ▲ Exceptions

Exception	Condition
<a href="#">ArgumentNullException</a>	In case the SQL is null.
<a href="#">SqlException</a>	In case the underlying connection cause an exception.

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)

[ExecuteScalar Overload](#)

[System.Data.Generic Namespace](#)

# DataSourceExecuteXmlReader Method

Executes the Query against the datasource and returns a XML reader.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public XmlReader ExecuteXmlReader(  
    string SQL  
)
```

## Parameters

*SQL*

Type: [SystemString](#)

SQL query to execute.

## Return Value

Type: [XmlReader](#)

XmlReader.

## ▲ Exceptions

Exception	Condition
<a href="#">ArgumentNullException</a>	In case the SQL is null.
<a href="#">SqlException</a>	In case the underlying connection cause an exception.

## ▸ Remarks

## ▸ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceOpen Method

**Note:** This API is now obsolete.

Open the data connection.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
[ObsoleteAttribute("You can remove Open. Does not |  
public void Open() |
```

## ▲ Remarks

## ▲ See Also

Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourcePrepareSql Method

Formats a SQL statement based on the data type of the *parameters* parameters.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public static string PrepareSql(  
    string sql,  
    params Object[] parameters  
)
```

## Parameters

*sql*

Type: [SystemString](#)  
SQL statement.

*parameters*

Type: [SystemObject](#)  
Parameters.

## Return Value

Type: [String](#)

Formatted SQL statement.

## ▲ Remarks

Behaviour of the SQL statement formatting is based on the [ThreatMinValuesAsNull](#) property on [SerializationSettings](#) property.

## ▲ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceRollbackTransaction Method

**Note: This API is now obsolete.**

Rolls back a transaction from the specified context.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#

VB

C++

F#

[Copy](#)

```
[ObsoleteAttribute("Please use Rollback() method of  
public void RollbackTransaction(  
    TransactionContext context  
)
```

## Parameters

*context*

Type: [System.Data.GenericTransactionContext](#)

Context of the transaction.

## ▲ Remarks

## ▲ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)







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# DataSource Properties

The [DataSource](#) type exposes the following members.

## ▲ Properties

	Name	Description
	<a href="#">ConnectionString</a>	<b>Obsolete.</b> Returns the connection state of the data connection.
	<a href="#">ConnectionString</a>	Returns the connection string of the current data connection.
 <b>S</b>	<a href="#">Current</a>	Returns a new instance of the DataSource class using the connection string, specific in the app.config.
 <b>S</b>	<a href="#">SerializationSettings</a>	Returns the settings for serialization.

[Top](#)

## ▲ See Also

Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourceConnectionState Property

**Note:** This API is now obsolete.

Returns the connection state of the data connection.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
[ObsoleteAttribute("You can remove Open. Does not |  
public ConnectionState ConnectionState { get; } |
```

## Property Value

Type: [ConnectionState](#)

## Return Value

Type: [ConnectionState](#)

## ▲ Remarks

## ▲ See Also

## Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourceConnectionString Property

Returns the connection string of the current data connection.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public string ConnectionString { get; }
```

## Property Value

Type: [String](#)

## Return Value

Type: [String](#)

String.

## ▲ Remarks

## ▲ See Also

## Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourceCurrent Property

Returns a new instance of the DataSource class using the connection string, specific in the app.config.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public static DataSource Current { get; }
```

## Property Value

Type: [DataSource](#)

## Return Value

Type: [DataSource](#)

## ▲ Remarks

Add GlobalDataSource to the app.config connectionstring elements.

## ▲ Examples

[Copy](#)

```
<ConnectionStrings><add name="GlobalDataSource" co|
```

## ▲ See Also

### Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

---

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# DataSourceSerializationSettings Property

Returns the settings for serialization.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#

VB

C++

F#

[Copy](#)

```
public static SerializationSettings SerializationS
```

## Property Value

Type: [SerializationSettings](#)

## Return Value

Type: [SerializationSettings](#)

Settings class for the supporting serializer.

## ▲ Remarks

## ▲ See Also

## Reference

[DataSource Class](#)

[System.Data.Generic Namespace](#)

# DataSourceItemCallbackDelegate Delegate

Delegated method for call back event methods. See also [ExecuteCallBack](#).

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public delegate void ItemCallbackDelegate(  
    Dictionary<string, Object> item,  
    int rownum,  
    ref bool cancel  
)
```

## Parameters

*item*

Type: [System.Collections.Generic.DictionaryString, Object](#)

Current data item as a Dictionary(Of String, Object).

*rownum*

Type: [System.Int32](#)

Row number of the item.

*cancel*

Type: [System.Boolean](#)

Gets or sets a value indicating if the read should continue.

## ▲ Remarks



## ▲ See Also

Reference

[System.Data.Generic Namespace](#)

---

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# GenericMapAttribute Class

[Missing <summary> documentation for "T:System.Data.Generic.GenericMapAttribute"]

## ▲ Inheritance Hierarchy

[SystemObject](#) [SystemAttribute](#)

[System.Data.GenericGenericMapAttribute](#)

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax


[C#](#) [VB](#) [C++](#) [F#](#)

[Copy](#)

```
public class GenericMapAttribute : Attribute
```


The [GenericMapAttribute](#) type exposes the following members.








## ▲ Constructors

Name	Description
 <a href="#">GenericMapAttribute</a>	Initializes a new instance of the <a href="#">GenericMapAttribute</a> class

[Top](#)



## ▲ Methods

Name	Description
 <a href="#">Equals</a>	Returns a value that indicates

		whether this instance is equal to a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Returns the hash code for this instance. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsDefaultAttribute</a>	When overridden in a derived class, indicates whether the value of this instance is the default value for the derived class. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Match</a>	When overridden in a derived class, returns a value that indicates whether this instance equals a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

[Top](#)

## ▲ Properties

	Name	Description
	<a href="#">DatabaseColumn</a>	
	<a href="#">TypeId</a>	When implemented in a derived class, gets a unique identifier for this <a href="#">Attribute</a> . (Inherited from <a href="#">Attribute</a> .)

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## ▲ See Also

Reference

[System.Data.Generic Namespace](#)

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# GenericMapAttribute Constructor

Initializes a new instance of the [GenericMapAttribute](#) class

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public GenericMapAttribute(  
    string dataBaseColumn  
)
```

## Parameters

*dataBaseColumn*

Type: [SystemString](#)

[Missing <param name="dataBaseColumn"/> documentation for  
"M:System.Data.Generic.GenericMapAttribute.#ctor(System.String)"]

## ▲ See Also

### Reference







[GenericMapAttribute Class](#)

[System.Data.Generic Namespace](#)

# GenericMapAttribute Methods

The [GenericMapAttribute](#) type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Returns a value that indicates whether this instance is equal to a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Returns the hash code for this instance. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsDefaultAttribute</a>	When overridden in a derived class, indicates whether the value of this instance is the default value for the derived class. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Match</a>	When overridden in a derived class, returns a value that indicates

whether this instance equals a specified object.  
(Inherited from [Attribute](#).)

---



### [MemberwiseClone](#)

Creates a shallow copy of the current [Object](#).  
(Inherited from [Object](#).)

---



### [ToString](#)

Returns a string that represents the current object.  
(Inherited from [Object](#).)

---

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## ▲ See Also

### Reference



[GenericMapAttribute Class](#)

[System.Data.Generic Namespace](#)

# GenericMapAttribute Properties

The [GenericMapAttribute](#) type exposes the following members.

## ▲ Properties

	Name	Description
	<a href="#">DatabaseColumn</a>	
	<a href="#">TypeId</a>	When implemented in a derived class, gets a unique identifier for this <a href="#">Attribute</a> . (Inherited from <a href="#">Attribute</a> .)

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## ▲ See Also

Reference

[GenericMapAttribute Class](#)

[System.Data.Generic Namespace](#)



# GenericMapAttributeDatabaseColumnProperty

[Missing <summary> documentation for "P:System.Data.Generic.GenericMapAttribute.DatabaseColumn"]

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public string DatabaseColumn { get; }
```

Property Value

Type: [String](#)

## ▲ See Also

Reference

[GenericMapAttribute Class](#)

[System.Data.Generic Namespace](#)

# IgnorePropertyAttribute Class

Instructs the [DataSourceFormatter](#) method not to serialize/deserialize the public field.

## ▲ Inheritance Hierarchy

[SystemObject](#) [SystemAttribute](#)  
[System.Data.GenericIgnorePropertyAttribute](#)

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax


[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public class IgnorePropertyAttribute : Attribute
```

The [IgnorePropertyAttribute](#) type exposes the following members.









## ▲ Constructors

Name	Description
 <a href="#">IgnorePropertyAttribute</a>	Initializes a new instance of the <a href="#">IgnorePropertyAttribute</a> class

[Top](#)

## ▲ Methods

Name	Description
------	-------------


	<b>Equals</b>	Returns a value that indicates whether this instance is equal to a specified object. (Inherited from <a href="#">Attribute</a> .)
	<b>Finalize</b>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<b>GetHashCode</b>	Returns the hash code for this instance. (Inherited from <a href="#">Attribute</a> .)
	<b>GetType</b>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<b>IsDefaultAttribute</b>	When overridden in a derived class, indicates whether the value of this instance is the default value for the derived class. (Inherited from <a href="#">Attribute</a> .)
	<b>Match</b>	When overridden in a derived class, returns a value that indicates whether this instance equals a specified object. (Inherited from <a href="#">Attribute</a> .)
	<b>MemberwiseClone</b>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<b>ToString</b>	Returns a string that represents the current object.

(Inherited from [Object](#).)

---

[Top](#)

## ▲ Properties

	Name	Description
	<a href="#">TypeId</a>	When implemented in a derived class, gets a unique identifier for this <a href="#">Attribute</a> . (Inherited from <a href="#">Attribute</a> .)

---

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## ▲ Remarks

For interoperability you can also use the [XmlIgnoreAttribute](#).

## ▲ See Also

Reference

[System.Data.Generic Namespace](#)

---

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# IgnorePropertyAttribute Constructor

Initializes a new instance of the [IgnorePropertyAttribute](#) class

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public IgnorePropertyAttribute()
```

## ▲ See Also

### Reference







[IgnorePropertyAttribute Class](#)

[System.Data.Generic Namespace](#)

# IgnorePropertyAttribute Methods

The [IgnorePropertyAttribute](#) type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Returns a value that indicates whether this instance is equal to a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Returns the hash code for this instance. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsDefaultAttribute</a>	When overridden in a derived class, indicates whether the value of this instance is the default value for the derived class. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Match</a>	When overridden in a derived class, returns a value that indicates

whether this instance equals a specified object.  
(Inherited from [Attribute](#).)

---



### [MemberwiseClone](#)

Creates a shallow copy of the current [Object](#).  
(Inherited from [Object](#).)

---



### [ToString](#)

Returns a string that represents the current object.  
(Inherited from [Object](#).)

---

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## ▲ See Also

### Reference


[IgnorePropertyAttribute Class](#)

[System.Data.Generic Namespace](#)

# IgnorePropertyAttribute Properties

The [IgnorePropertyAttribute](#) type exposes the following members.

## ▲ Properties

	Name	Description
	<a href="#">TypeId</a>	When implemented in a derived class, gets a unique identifier for this <a href="#">Attribute</a> . (Inherited from <a href="#">Attribute</a> .)

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## ▲ See Also

### Reference

[IgnorePropertyAttribute Class](#)  
[System.Data.Generic Namespace](#)



# SerializationSettings Class

Provides settings for the Data Serializer.

## ▾ Inheritance Hierarchy

[SystemObject](#) [System.Data.GenericSerializationSettings](#)

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▾ Syntax

C#

VB

C++





F#

[Copy](#)

```
public sealed class SerializationSettings
```

The [SerializationSettings](#) type exposes the following members.

## ▾ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
		


[ToString](#)

Returns a string that represents the current object.  
(Inherited from [Object](#).)

---

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## ▲ Properties

	Name	Description
	<a href="#">ThreatMinValuesAsNull</a>	Gets or sets a value to threat property values of min-value as null.

---

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## ▲ Remarks

## ▲ See Also

Reference

[System.Data.Generic Namespace](#)





---

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# SerializationSettings Methods

The [SerializationSettings](#) type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

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## ▲ See Also

### Reference


[SerializationSettings Class](#)

[System.Data.Generic Namespace](#)

# SerializationSettings Properties

The [SerializationSettings](#) type exposes the following members.

## ▲ Properties

	Name	Description
	<a href="#">ThreatMinValuesAsNull</a>	Gets or sets a value to threat property values of min-value as null.

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## ▲ See Also

Reference

[SerializationSettings Class](#)

[System.Data.Generic Namespace](#)

# SerializationSettingsThreatMinValue Property

Gets or sets a value to threat property values of min-value as null.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)[VB](#)[C++](#)[F#](#)[Copy](#)

```
public bool ThreatMinValuesAsNull { get; set; }
```

## Property Value

Type: [Boolean](#)

## Return Value

Type: [Boolean](#)

## ▲ Remarks

[PrepareSql](#) for processing instructions.

## ▲ See Also

### Reference

[SerializationSettings Class](#)

[System.Data.Generic Namespace](#)

# SingleNestedObjectAttribute Class

[Missing <summary> documentation for "T:System.Data.Generic.SingleNestedObjectAttribute"]

## ▲ Inheritance Hierarchy

[System.Object](#) [System.Attribute](#)

[System.Data.GenericSingleNestedObjectAttribute](#)

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#

VB

C++


F#

[Copy](#)

```
public class SingleNestedObjectAttribute : Attribute
```









The [SingleNestedObjectAttribute](#) type exposes the following members.

## ▲ Constructors

Name	Description
 <a href="#">SingleNestedObjectAttribute</a>	Initializes a new instance of the <a href="#">SingleNestedObjectAttribute</a> class

[Top](#)

## ▲ Methods



	Name	Description
	<a href="#">Equals</a>	Returns a value that indicates whether this instance is equal to a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Returns the hash code for this instance. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsDefaultAttribute</a>	When overridden in a derived class, indicates whether the value of this instance is the default value for the derived class. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Match</a>	When overridden in a derived class, returns a value that indicates whether this instance equals a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the

current object.  
(Inherited from [Object](#).)

---

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## ▲ Properties

	Name	Description
	<a href="#">Approach</a>	
	<a href="#">TypeId</a>	When implemented in a derived class, gets a unique identifier for this <a href="#">Attribute</a> . (Inherited from <a href="#">Attribute</a> .)

---

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## ▲ See Also

Reference

[System.Data.Generic Namespace](#)

---

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# SingleNestedObjectAttribute Constructor

Initializes a new instance of the [SingleNestedObjectAttribute](#) class

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public SingleNestedObjectAttribute(  
    SingleNestedObjectEnum approach  
)
```

## Parameters

*approach*

Type: [System.Data.GenericSingleNestedObjectEnum](#)

[Missing <param name="approach"/> documentation for

"M:System.Data.Generic.SingleNestedObjectAttribute.#ctor(System.Data.Generic.Singl

## ▲ See Also

### Reference

[SingleNestedObjectAttribute Class](#)






[System.Data.Generic Namespace](#)

# SingleNestedObjectAttribute

## Methods

The [SingleNestedObjectAttribute](#) type exposes the following members.

### ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Returns a value that indicates whether this instance is equal to a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Returns the hash code for this instance. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsDefaultAttribute</a>	When overridden in a derived class, indicates whether the value of this instance is the default value for the derived class. (Inherited from <a href="#">Attribute</a> .)



## Match

When overridden in a derived class, returns a value that indicates whether this instance equals a specified object.  
(Inherited from [Attribute](#).)

---



## MemberwiseClone

Creates a shallow copy of the current [Object](#).  
(Inherited from [Object](#).)

---



## ToString

Returns a string that represents the current object.  
(Inherited from [Object](#).)

---

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## ▲ See Also

### Reference

[SingleNestedObjectAttribute Class](#)  
[System.Data.Generic Namespace](#)



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# SingleNestedObjectAttribute

## Properties

The [SingleNestedObjectAttribute](#) type exposes the following members.

### ▲ Properties

	Name	Description
	<a href="#">Approach</a>	
	<a href="#">TypeId</a>	When implemented in a derived class, gets a unique identifier for this <a href="#">Attribute</a> . (Inherited from <a href="#">Attribute</a> .)

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### ▲ See Also

Reference

[SingleNestedObjectAttribute Class](#)  
[System.Data.Generic Namespace](#)

# SingleNestedObjectAttributeApproach Property

[Missing <summary> documentation for  
"P:System.Data.Generic.SingleNestedObjectAttribute.Approach"]

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
protected SingleNestedObjectEnum Approach { get; }
```

Property Value

Type: [SingleNestedObjectEnum](#)

## ▲ See Also

Reference

[SingleNestedObjectAttribute Class](#)

[System.Data.Generic Namespace](#)

# SingleNestedObjectEnum Enumeration

[Missing <summary> documentation for  
"T:System.Data.Generic.SingleNestedObjectEnum"]

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public enum SingleNestedObjectEnum
```

## ▲ Members

Member name	Value	Description
SetFirst	0	
SetLast	1	

## ▲ See Also

Reference

[System.Data.Generic Namespace](#)

# SQLInjectionInspector Class

Injection inspector class to enable safe SQL statements.

## ▾ Inheritance Hierarchy

[SystemObject](#) [System.Data.GenericSQLInjectionInspector](#)

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▾ Syntax


[C#](#) [VB](#) [C++](#) [F#](#)

[Copy](#)

```
public sealed class SQLInjectionInspector
```


The [SQLInjectionInspector](#) type exposes the following members.

## ▾ Constructors

	Name	Description
	<a href="#">SQLInjectionInspector</a>	Initializes a new instance of the <a href="#">SQLInjectionInspector</a> class






[Top](#)

## ▾ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> .

(Inherited from [Object](#).)

---

	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Validate(String)</a>	Validate the SQL string and thrown an exception if harmful injections are found.
	<a href="#">Validate(String, String)</a>	Validate the SQL string and thrown an exception if harmful injections are found.

---

[Top](#)

## ▲ Remarks

## ▲ See Also

### Reference

[System.Data.Generic Namespace](#)



# SQLInjectionInspector Constructor

Initializes a new instance of the [SQLInjectionInspector](#) class

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public SQLInjectionInspector()
```

## ▲ See Also

### Reference









[SQLInjectionInspector Class](#)

[System.Data.Generic Namespace](#)

# SQLInjectionInspector Methods

The [SQLInjectionInspector](#) type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
 	<a href="#">Validate(String)</a>	Validate the SQL string and thrown an exception if harmful injections are found.
 	<a href="#">Validate(String, String)</a>	Validate the SQL string and thrown an exception if harmful injections are found.

[Top](#)

## ▲ See Also

## Reference

[SQLInjectionInspector Class](#)



[System.Data.Generic Namespace](#)

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# SQLInjectionInspectorValidate Method

## ▲ Overload List

	Name	Description
	<a href="#">Validate(String)</a>	Validate the SQL string and thrown an exception if harmful injections are found.
	<a href="#">Validate(String, String)</a>	Validate the SQL string and thrown an exception if harmful injections are found.

[Top](#)

## ▲ See Also

Reference

[SQLInjectionInspector Class](#)

[System.Data.Generic Namespace](#)

# SQLInjectionInspectorValidate Method (String)

Validate the SQL string and thrown an exception if harmful injections are found.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public static string Validate(  
    string SQL  
)
```

## Parameters

### SQL

Type: [SystemString](#)

SQL statement to validate.

## Return Value

Type: [String](#)

Safe SQL statement.

## ▲ Remarks

This class does not ensure unsafe SQL. Please use all means to secure your SQL access.

## ▲ See Also

## Reference

[SQLInjectionInspector Class](#)

[Validate Overload](#)

[System.Data.Generic Namespace](#)

---

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# SQLInjectionInspectorValidate Method (String, String)

Validate the SQL string and thrown an exception if harmful injections are found.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public static string Validate(  
    string SQL,  
    string[] injectionArray  
)
```

## Parameters

### SQL

Type: [SystemString](#)

SQL statement to validate.

### *injectionArray*

Type: [SystemString](#)

Array of unsafe statements.

## Return Value

Type: [String](#)

Safe SQL statement.

## ▲ Remarks

This class does not ensure unsafe SQL. Please use all means to

secure your SQL access.

## ▲ See Also

### Reference

[SQLInjectionInspector Class](#)

[Validate Overload](#)

[System.Data.Generic Namespace](#)

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# TransactionContext Class

Provides context of any transaction.

## ▾ Inheritance Hierarchy

[SystemObject](#) [System.Data.GenericTransactionContext](#)

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▾ Syntax

C#

VB

C++





F#

[Copy](#)

```
public sealed class TransactionContext : IDisposable.
```




The [TransactionContext](#) type exposes the following members.

## ▾ Methods

	Name	Description
	<a href="#">Commit</a>	Commits the transaction.
	<a href="#">Dispose</a>	Releases the unmanaged resources used by the TransactionContext.
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type.

(Inherited from [Object](#).)


---

	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">RollBack</a>	Rolls back the transaction.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

---

[Top](#)

## ▲ Properties

	Name	Description
	<a href="#">Name</a>	Gets the name of the transaction.

---

[Top](#)

## ▲ Remarks

## ▲ See Also








Reference

[System.Data.Generic Namespace](#)

# TransactionContext Methods

The [TransactionContext](#) type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Commit</a>	Commits the transaction.
	<a href="#">Dispose</a>	Releases the unmanaged resources used by the TransactionContext.
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">RollBack</a>	Rolls back the transaction.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

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## ▲ See Also

Reference

TransactionContext Class  
System.Data.Generic Namespace

---

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# TransactionContextCommit Method

Commits the transaction.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public void Commit()
```

## ▲ Remarks

## ▲ See Also

### Reference

[TransactionContext Class](#)

[System.Data.Generic Namespace](#)

# TransactionContextDispose Method

Releases the unmanaged resources used by the TransactionContext.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public void Dispose()
```

Implements

[IDisposable.Dispose](#)

## ▲ Remarks

## ▲ See Also

Reference

[TransactionContext Class](#)

[System.Data.Generic Namespace](#)

# TransactionContextRollBack Method

Rolls back the transaction.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public void RollBack()
```

## ▲ Remarks

## ▲ See Also

### Reference


[TransactionContext Class](#)

[System.Data.Generic Namespace](#)

# TransactionContext Properties

The [TransactionContext](#) type exposes the following members.

## ▲ Properties

	Name	Description
	<a href="#">Name</a>	Gets the name of the transaction.

[Top](#)

## ▲ See Also

Reference

[TransactionContext Class](#)

[System.Data.Generic Namespace](#)



# TransactionContextName Property

Gets the name of the transaction.

**Namespace:** [System.Data.Generic](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public string Name { get; }
```

Property Value

Type: [String](#)

Return Value

Type: [String](#)

## ▲ Remarks

## ▲ See Also

Reference




[TransactionContext Class](#)

[System.Data.Generic Namespace](#)

# System.Data.Generic.Schema Namespace

[Missing <summary> documentation for "N:System.Data.Generic.Schema"]

## ▲ Classes

	Class	Description
	<a href="#">DbColumnInfo</a>	Obtains information about the values of a data column from the database.
	<a href="#">DbSchema</a>	Obtains information about the tables and columns of a database.
	<a href="#">DbTableInfo</a>	Obtains information about the tables of a database.

# DbColumnInfo Class

Obtains information about the values of a data column from the database.

## ▲ Inheritance Hierarchy

[SystemObject](#) [System.Data.Generic.SchemaDbColumnInfo](#)

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax


[C#](#) [VB](#) [C++](#) [F#](#)

[Copy](#)

```
public sealed class DbColumnInfo
```


The [DbColumnInfo](#) type exposes the following members.

## ▲ Constructors

	Name	Description
	<a href="#">DbColumnInfo</a>	Initializes a new instance of the <a href="#">DbColumnInfo</a> class

[Top](#)

## ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified

[Object](#) is equal to the current [Object](#).  
(Inherited from [Object](#).)



[GetHashCode](#)

Serves as a hash function for a particular type.  
(Inherited from [Object](#).)



[GetType](#)

Gets the [Type](#) of the current instance.  
(Inherited from [Object](#).)









[ToString](#)

Returns a string representation of the object.  
(Overrides [ObjectToString](#).)


[Top](#)

## Fields

Name	Description
 <a href="#">DataTypeName</a>	Name of the data source field type.
 <a href="#">FieldIndex</a>	Gets or sets the column index.
 <a href="#">FieldName</a>	Name of the datasource field.
 <a href="#">FieldValue</a>	Value of the datasource field.
 <a href="#">RuntimeType</a>	System.Type of the field, reflected by CLR.
 <a href="#">TableName</a>	Gets or sets the table name of the column.

[Top](#)

## Properties

	Name	Description
	<a href="#">FieldPath</a>	Returns the path of the column value.

---

[Top](#)

▲ **Remarks**

▲ **See Also**

Reference

[System.Data.Generic.Schema Namespace](#)

---

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# DbColumnInfo Constructor

Initializes a new instance of the [DbColumnInfo](#) class

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public DbColumnInfo()
```

## ▲ See Also

### Reference

[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbColumnInfo Fields

The [DbColumnInfo](#) type exposes the following members.

## ▲ Fields

	Name	Description
◆	<a href="#">DataTypeName</a>	Name of the data source field type.
◆	<a href="#">FieldIndex</a>	Gets or sets the column index.
◆	<a href="#">FieldName</a>	Name of the datasource field.
◆	<a href="#">FieldValue</a>	Value of the datasource field.
◆	<a href="#">RuntimeType</a>	System.Type of the field, reflected by CLR.
◆	<a href="#">TableName</a>	Gets or sets the table name of the column.

[Top](#)

## ▲ See Also

### Reference

[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbColumnInfoDataTypeName Field

Name of the data source field type.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

[Copy](#)

```
public string DataTypeName
```

Field Value

Type: [String](#)

## ▲ Remarks

## ▲ See Also

Reference

[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)



# DbColumnInfoFieldIndex Field

Gets or sets the column index.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public int FieldIndex
```

Field Value

Type: [Int32](#)

## ▲ Remarks

## ▲ See Also

Reference

[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbColumnInfoFieldName Field

Name of the datasource field.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▾ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public string FieldName
```

Field Value

Type: [String](#)

## ▾ Remarks

## ▾ See Also

Reference

[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbColumnInfoFieldValue Field

Value of the datasource field.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public Object FieldValue
```

Field Value

Type: [Object](#)

## ▲ Remarks

## ▲ See Also

Reference

[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbColumnInfoRuntimeType Field

System.Type of the field, reflected by CLR.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public Type RuntimeType
```

Field Value

Type: [Type](#)

## ▲ Remarks

## ▲ See Also

Reference

[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbColumnInfoTableName Field

Gets or sets the table name of the column.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public string TableName
```

Field Value

Type: [String](#)

## ▲ Remarks

## ▲ See Also

Reference





[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbColumnInfo Methods

The [DbColumnInfo](#) type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string representation of the object. (Overrides <a href="#">ObjectToString</a> .)

[Top](#)

## ▲ See Also

Reference

[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbColumnInfoToString Method

Returns a string representation of the object.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public override string ToString()
```

## Return Value

Type: [String](#)

String.

## ▲ Remarks

## ▲ See Also

## Reference


[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbColumnInfo Properties

The [DbColumnInfo](#) type exposes the following members.

## ▲ Properties

	Name	Description
	<a href="#">FieldPath</a>	Returns the path of the column value.

[Top](#)

## ▲ See Also

Reference

[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)



# DbColumnInfoFieldPath Property

Returns the path of the column value.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public string FieldPath { get; }
```

Property Value

Type: [String](#)

Return Value

Type: [String](#)

## ▲ Remarks

## ▲ See Also

Reference

[DbColumnInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbSchema Class

Obtains information about the tables and columns of a database.

## ▾ Inheritance Hierarchy

[SystemObject](#) [System.Data.Generic.SchemaDbSchema](#)

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▾ Syntax





[C#](#) [VB](#) [C++](#) [F#](#)

[Copy](#)

```
public sealed class DbSchema
```

The [DbSchema](#) type exposes the following members.

## ▾ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
		

[ToString](#)

Returns a string that represents the current object.  
(Inherited from [Object](#).)

---

[Top](#)

▲ **Remarks**

▲ **See Also**

Reference

[System.Data.Generic.Schema Namespace](#)





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# DbSchema Methods

The [DbSchema](#) type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

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## ▲ See Also

Reference

[DbSchema Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbTableInfo Class

Obtains information about the tables of a database.

## ▾ Inheritance Hierarchy

[SystemObject](#) [System.Data.Generic.SchemaDbTableInfo](#)

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▾ Syntax


[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public sealed class DbTableInfo
```


The [DbTableInfo](#) type exposes the following members.

## ▾ Constructors

	Name	Description
	<a href="#">DbTableInfo</a>	Returns a new instance of the <a href="#">DbTableInfo</a> class




[Top](#)

## ▾ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> .

(Inherited from [Object](#).)




---

	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string representation of the DbTableInfo class. (Overrides <a href="#">ObjectToString</a> .)

---

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## ▲ Fields

	Name	Description
	<a href="#">Columns</a>	Returns a list of database columns, belonging to the table.
	<a href="#">KeyColumnIndex</a>	Index of the key column.
	<a href="#">TableName</a>	Name of the data table.

---

[Top](#)

## ▲ Remarks

## ▲ See Also

### Reference

[System.Data.Generic.Schema Namespace](#)

# DbTableInfo Constructor

Returns a new instance of the DbTableInfo class

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public DbTableInfo()
```

## ▲ Remarks

## ▲ See Also

Reference




[DbTableInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbTableInfo Fields

The [DbTableInfo](#) type exposes the following members.

## ▲ Fields

	Name	Description
	<a href="#">Columns</a>	Returns a list of database columns, belonging to the table.
	<a href="#">KeyColumnIndex</a>	Index of the key column.
	<a href="#">TableName</a>	Name of the data table.

[Top](#)

## ▲ See Also

Reference

[DbTableInfo Class](#)

[System.Data.Generic.Schema Namespace](#)



# DbTableInfoColumns Field

Returns a list of database columns, belonging to the table.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public List<DbColumnInfo> Columns
```

Field Value

Type: [ListDbColumnInfo](#)

## ▲ Remarks

## ▲ See Also

Reference

[DbTableInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbTableInfoKeyColumnIndex Field

Index of the key column.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▾ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public int KeyColumnIndex
```

Field Value

Type: [Int32](#)

## ▾ Remarks

## ▾ See Also

Reference

[DbTableInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbTableInfoTableName Field

Name of the data table.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
public string TableName
```

Field Value

Type: [String](#)

## ▲ Remarks

## ▲ See Also

Reference





[DbTableInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbTableInfo Methods

The [DbTableInfo](#) type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string representation of the DbTableInfo class. (Overrides <a href="#">ObjectToString</a> .)

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## ▲ See Also

Reference

[DbTableInfo Class](#)

[System.Data.Generic.Schema Namespace](#)

# DbTableInfoToString Method

Returns a string representation of the DbTableInfo class.

**Namespace:** [System.Data.Generic.Schema](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public override string ToString()
```

## Return Value

Type: [String](#)

String representation.

## ▲ Remarks

## ▲ See Also

## Reference

[DbTableInfo Class](#)

[System.Data.Generic.Schema Namespace](#)


# System.Data.Generic.Serialization.F Namespace

Provides methods and classes for data source serialization.

## ▲ Classes

	Class	Description
	<a href="#">DataSourceFormatterT</a>	Provides a serialization formatter for the data source.
	<a href="#">NestedDataSourceFormatterT</a>	

## ▲ Interfaces

	Interface	Description
	<a href="#">IDataReaderFormatterT</a>	Provides functionality for formatting DataReader and objects.

# DataSourceFormatterT Class

Provides a serialization formatter for the data source.

## ▲ Inheritance Hierarchy

[SystemObject](#) [System.Data.Generic.Serialization.FormattersDataSource](#)

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#) [VB](#) [C++](#) [F#](#)

[Copy](#)

```
public sealed class DataSourceFormatter<T> : IData
```


## Type Parameters

*T*

Type of object to serialize or deserialize.







The [DataSourceFormatterT](#) type exposes the following members.

## ▲ Constructors

Name	Description
 <a href="#">DataSourceFormatterT</a>	Initializes a new instance of the <a href="#">DataSourceFormatterT</a> class

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## ▲ Methods

	Name	Description
	<a href="#">Deserialize</a>	Deserialize a data row from the reader.
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Serialize</a>	Serialize a datareader. This method is not implemented.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

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## ▲ Remarks

## ▲ See Also

### Reference

[System.Data.Generic.Serialization.Formatters Namespace](#)



# DataSourceFormatterT Constructor

Initializes a new instance of the [DataSourceFormatterT](#) class

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#

VB

C++

F#

[Copy](#)

```
public DataSourceFormatter()
```

## ▲ See Also

### Reference







[DataSourceFormatterT Class](#)

[System.Data.Generic.Serialization.Formatters Namespace](#)

# DataSourceFormatterT Methods

The [DataSourceFormatterT](#) generic type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Deserialize</a>	Deserialize a data row from the reader.
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Serialize</a>	Serialize a datareader. This method is not implemented.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

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## ▲ See Also

Reference

[DataSourceFormatterT Class](#)

## System.Data.Generic.Serialization.Formatters Namespace

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# DataSourceFormatterTDeserialize Method

Deserialize a data row from the reader.

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#    VB    C++    F#

[Copy](#)

```
public T Deserialize(  
    IDataReader reader  
)
```

## Parameters

*reader*

Type: [System.Data.IDataReader](#)

DataReader to return row from.

## Return Value

Type: *T*

Object of type T, deserialized from the provided DataReader.

## Implements

[IDataReaderFormatterTDeserialize\(IDataReader\)](#)

## ▲ Remarks

## ▲ See Also

## Reference

DataSourceFormatterT Class  
System.Data.Generic.Serialization.Formatters Namespace

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# DataSourceFormatterTSerialize Method

Serialize a datareader. This method is not implemented.

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

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```
public void Serialize(  
    IDataReader reader,  
    T graph  
)
```

## Parameters

*reader*

Type: [System.Data.IDataReader](#)  
DataReader to serialize from.

*graph*

Type: *T*  
Graph object to serialize.

## Implements

[IDataReaderFormatterTSerialize\(IDataReader, T\)](#)

## ▲ Remarks

## ▲ See Also

## Reference

DataSourceFormatterT Class  
System.Data.Generic.Serialization.Formatters Namespace

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# IDataReaderFormatterT Interface

Provides functionality for formatting DataReader and objects.

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#)   [VB](#)   [C++](#)   [F#](#)

[Copy](#)

```
public interface IDataReaderFormatter<T>
```



## Type Parameters

*T*

Type of object.

The `IDataReaderFormatterT` type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Deserialize</a>	Deserializes the data on the provided DataReader and reconstitutes the graph of objects.
	<a href="#">Serialize</a>	Serializes an object, or graph as objects with the given root to the provided reader.

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## ▲ Remarks



## ▲ See Also

### Reference

[System.Data.Generic.Serialization.Formatter Namespace](#)



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# IDataReaderFormatterT Methods

The [IDataReaderFormatterT](#) generic type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Deserialize</a>	Deserializes the data on the provided DataReader and reconstitutes the graph of objects.
	<a href="#">Serialize</a>	Serializes an object, or graph as objects with the given root to the provided reader.

[Top](#)

## ▲ See Also

### Reference

[IDataReaderFormatterT Interface](#)

[System.Data.Generic.Serialization.Formatters Namespace](#)

# IDataReaderFormatterTDeserialize Method

Deserializes the data on the provided DataReader and reconstitutes the graph of objects.

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

[Copy](#)

```
T Deserialize(  
    IDataReader reader  
)
```

## Parameters

*reader*

Type: [System.Data.IDataReader](#)

The DataReader that contains the data to deserialize.

## Return Value

Type: *T*

Deserialized object of type T from the reader.

## ▲ Remarks

## ▲ See Also

## Reference

[IDataReaderFormatterT Interface](#)

[System.Data.Generic.Serialization.Formatters Namespace](#)

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# IDataReaderFormatterTSerialize Method

Serializes an object, or graph as objects with the given root to the provided reader.

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

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```
void Serialize(  
    IDataReader reader,  
    T graph  
)
```

## Parameters

*reader*

Type: [System.Data.IDataReader](#)

The DataReader where the formatter puts the serialized data.

*graph*

Type: *T*

The object, or root of the object graph, to serialize.

## ▲ Remarks

## ▲ See Also

## Reference

[IDataReaderFormatterT Interface](#)

## System.Data.Generic.Serialization.Formatters Namespace

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# NestedDataSourceFormatterT Class

[Missing <summary> documentation for  
"T:System.Data.Generic.Serialization.Formatters.NestedDataSourceFormatter`1"]

## ▲ Inheritance Hierarchy

[SystemObject](#) [System.Data.Generic.Serialization.FormattersNestedData](#)

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

[C#](#) [VB](#) [C++](#) [F#](#)

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```
public sealed class NestedDataSourceFormatter<T>
```

## Type Parameters

*T*







The `NestedDataSourceFormatterT` type exposes the following members.

## ▲ Constructors

Name	Description
 <a href="#">NestedDataSourceFormatterT</a>	Initializes a new instance of the <code>NestedDataSourceFormatter`1</code> class

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## ▲ Methods

	Name	Description
	<a href="#">DeserializeNested</a>	
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">j</a>	
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

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## ▲ Remarks

## ▲ See Also

Reference

[System.Data.Generic.Serialization.Formatter Namespace](#)





# NestedDataSourceFormatterT Constructor

Initializes a new instance of the [NestedDataSourceFormatterT](#) class

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#

VB

C++

F#

[Copy](#)

```
public NestedDataSourceFormatter()
```

## ▲ See Also

### Reference

[NestedDataSourceFormatterT Class](#)







[System.Data.Generic.Serialization.Formatters Namespace](#)

# NestedDataSourceFormatterT

## Methods

The [NestedDataSourceFormatterT](#) generic type exposes the following members.

### ▲ Methods

Name	Description
 <a href="#">DeserializeNested</a>	
 <a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
 <a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 <a href="#">j</a>	
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

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## ▲ See Also

### Reference

[NestedDataSourceFormatterT Class](#)

[System.Data.Generic.Serialization.Formatters Namespace](#)

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# NestedDataSourceFormatterTDeserializeMethod

[Missing <summary> documentation for "M:System.Data.Generic.Serialization.Formatters.NestedDataSourceFormatter`1.Deserialize:

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C# VB C++ F#

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```
public List<T> DeserializeNested(  
    IDataReader reader  
)
```

## Parameters

*reader*

Type: [System.Data.IDataReader](#)

[Missing <param name="reader"/> documentation for "M:System.Data.Generic.Serialization.Formatters.NestedDataSourceFormatter`1.Deseri

## Return Value

Type: [ListT](#)

[Missing <returns> documentation for "M:System.Data.Generic.Serialization.Formatters.NestedDataSourceFormatter`1.Deseriali:

## ▲ Remarks

## ▲ See Also

## Reference

[NestedDataSourceFormatterT Class](#)

[System.Data.Generic.Serialization.Formatters Namespace](#)

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# NestedDataSourceFormatterTj Method

[Missing <summary> documentation for  
"M:System.Data.Generic.Serialization.Formatters.NestedDataSourceFormatter`1.j"]

**Namespace:** [System.Data.Generic.Serialization.Formatters](#)

**Assembly:** System.Data.Generic (in System.Data.Generic.dll)

Version: 1.9.5473.30542 (1.9.5473.2392)

## ▲ Syntax

C#   VB   C++   F#

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```
public void j()
```

## ▲ See Also

### Reference

[NestedDataSourceFormatterT Class](#)

[System.Data.Generic.Serialization.Formatters Namespace](#)