**SqlDataReader Class**

Provides a way of reading a forward-only stream of rows from a SQL Server database. This class cannot be inherited. To create a SqlDataReader, you must call the [ExecuteReader](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqlcommand.executereader.aspx) method of the [SqlCommand](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqlcommand.aspx) object, instead of directly using a constructor.While the SqlDataReader is being used, the associated [SqlConnection](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqlconnection.aspx) is busy serving the SqlDataReader, and no other operations can be performed on the [SqlConnection](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqlconnection.aspx) other than closing it. This is the case until the [Close](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldatareader.close.aspx) method of the SqlDataReader is called. For example, you cannot retrieve output parameters until after you call [Close](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldatareader.close.aspx).

Changes made to a result set by another process or thread while data is being read may be visible to the user of the SqlDataReader. However, the precise behavior is timing dependent.

[IsClosed](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldatareader.isclosed.aspx) and [RecordsAffected](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldatareader.recordsaffected.aspx) are the only properties that you can call after the SqlDataReader is closed. Although the [RecordsAffected](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldatareader.recordsaffected.aspx) property may be accessed while the SqlDataReader exists, always call [Close](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldatareader.close.aspx) before returning the value of [RecordsAffected](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldatareader.recordsaffected.aspx) to guarantee an accurate return value.

For optimal performance, SqlDataReader avoids creating unnecessary objects or making unnecessary copies of data. Therefore, multiple calls to methods such as [GetValue](http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldatareader.getvalue.aspx) return a reference to the same object