

illustrates the use of a DataView object to filter and sort rows

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/*  
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*/  
  
/*  
Example23_5.cs illustrates the use of a DataView object to  
filter and sort rows  
*/  
  
using System;  
using System.Data;  
using System.Data.SqlClient;  
  
public class Example23_5  
{  
  
    public static void Main()  
    {  
  
        // formulate a string containing the details of the  
        // database connection  
        string connectionString =  
        "server=localhost;database=Northwind;uid=sa;pwd=sa";  
  
        // create a SqlConnection object to connect to the  
        // database, passing the connection string to the constructor  
        SqlConnection mySqlConnection =  
        new SqlConnection(connectionString);
```

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// formulate a string containing a SELECT statement
string selectString =
"SELECT CustomerID, CompanyName, City, Country " +
"FROM Customers";

// create a SqlCommand object to hold the SELECT statement
SqlCommand mySqlCommand = mySqlConnection.CreateCommand();

// set the CommandText property of the SqlCommand object to
// the SELECT string
mySqlCommand.CommandText = selectString;

// create a SqlDataAdapter object
SqlDataAdapter mySqlDataAdapter = new SqlDataAdapter();

// set the SelectCommand property of the SqlDataAdapter object
// to the SqlCommand object
mySqlDataAdapter.SelectCommand = mySqlCommand;

// create a DataSet object to store the results of
// the SELECT statement
DataSet myDataSet = new DataSet();

// open the database connection using the
// Open() method of the SqlConnection object
mySqlConnection.Open();

// use the Fill() method of the SqlDataAdapter object to
// retrieve the rows from the table, storing the rows locally
// in a DataTable of the DataSet object
Console.WriteLine("Retrieving rows from the Customers table");
mySqlDataAdapter.Fill(myDataSet, "Customers");

// create a DataView object
DataView myDataView =
new DataView(myDataSet.Tables["Customers"]);

// set the RowFilter property of the DataView object
myDataView.RowFilter = "Country = 'UK'";
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// set the Sort property of the DataView object
myDataView.Sort = "CustomerID ASC";

// display the rows in the DataView object
foreach (DataRowView myDataRowView in myDataView)
{
for (int count = 0; count < myDataView.Table.Columns.Count;
count++) { Console.WriteLine(myDataRowView[count]); } } //
close the database connection using the Close() method // of
the SqlConnection object mySqlConnection.Close(); } }
[/csharp]
```