

## How to generate barcode in crystal reports application c# 2015 with barcode sdk in Crystal Reports and ByteScout Barcode Suite

Continuous learning is a crucial part of computer science and this tutorial shows how to generate barcode in crystal reports application c# 2015 with barcode sdk in Crystal Reports

Source code documentation samples give simple and easy method to install a needed feature into your application. ByteScout Barcode Suite is the set that includes three different SDK products to generate barcodes, read barcodes and read and write spreadsheets: Barcode SDK, Barcode Reader SDK and Spreadsheet SDK. It can generate barcode in crystal reports application c# 2015 with barcode sdk in Crystal Reports.

Want to save time? You will save a lot of time on writing and testing code as you may just take the Crystal Reports code from ByteScout Barcode Suite for generate barcode in crystal reports application c# 2015 with barcode sdk below and use it in your application. Just copy and paste the code into your Crystal Reports application's code and follow the instructions. If you want to use these Crystal Reports sample examples in one or many applications then they can be used easily.

Our website gives trial version of ByteScout Barcode Suite for free. It also includes documentation and source code samples.

FOR MORE INFORMATION AND FREE TRIAL:

[Download Free Trial SDK \(on-premise version\)](#)

[Read more about ByteScout Barcode Suite](#)

[Explore API Documentation](#)

[Get Free Training for ByteScout Barcode Suite](#)

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[visit www.ByteScout.com](http://www.ByteScout.com)

Source Code Files:

## BarcodeInCrystalReports.sln

```
Microsoft Visual Studio Solution File, Format Version 12.00
# Visual Studio 14
VisualStudioVersion = 14.0.25420.1
MinimumVisualStudioVersion = 10.0.40219.1
Project("{FAE04EC0-301F-11D3-BF4B-00C04F79EFBC}") = "BarcodeInCrystalReports", "BarcodeInCrystalReports.csproj", "{75AA680D-9434-4C36-AB16-29EB20693F0B}"
EndProject
Global
    GlobalSection(SolutionConfigurationPlatforms) = preSolution
        Debug|Any CPU = Debug|Any CPU
        Debug|x86 = Debug|x86
        Release|Any CPU = Release|Any CPU
        Release|x86 = Release|x86
    EndGlobalSection
    GlobalSection(ProjectConfigurationPlatforms) = postSolution
        {75AA680D-9434-4C36-AB16-29EB20693F0B}.Debug|Any CPU.ActiveCfg = Debug|Any CPU
        {75AA680D-9434-4C36-AB16-29EB20693F0B}.Debug|Any CPU.Build.0 = Debug|Any CPU
        {75AA680D-9434-4C36-AB16-29EB20693F0B}.Debug|x86.ActiveCfg = Debug|x86
        {75AA680D-9434-4C36-AB16-29EB20693F0B}.Debug|x86.Build.0 = Debug|x86
        {75AA680D-9434-4C36-AB16-29EB20693F0B}.Release|Any CPU.ActiveCfg = Release|Any CPU
        {75AA680D-9434-4C36-AB16-29EB20693F0B}.Release|Any CPU.Build.0 = Release|Any CPU
        {75AA680D-9434-4C36-AB16-29EB20693F0B}.Release|x86.ActiveCfg = Release|x86
        {75AA680D-9434-4C36-AB16-29EB20693F0B}.Release|x86.Build.0 = Release|x86
    EndGlobalSection
    GlobalSection(SolutionProperties) = preSolution
        HideSolutionNode = FALSE
    EndGlobalSection
EndGlobal
```

## CrystalReport1.cs

```
//-----
// <auto-generated>
//   This code was generated by a tool.
//   Runtime Version:4.0.30319.34014
//
//   Changes to this file may cause incorrect behavior and will be lost if
//   the code is regenerated.
// </auto-generated>
//-----

namespace BarcodeInCrystalReports {
    using System;
    using System.ComponentModel;
}
```

```

using CrystalDecisions.Shared;
using CrystalDecisions.ReportSource;
using CrystalDecisions.CrystalReports.Engine;

public class CrystalReport1 : ReportClass {

    public CrystalReport1() {
    }

    public override string ResourceName {
        get {
            return "CrystalReport1.rpt";
        }
        set {
            // Do nothing
        }
    }

    public override bool NewGenerator {
        get {
            return true;
        }
        set {
            // Do nothing
        }
    }

    public override string FullResourceName {
        get {
            return "BarcodeInCrystalReports.CrystalReport1.rpt";
        }
        set {
            // Do nothing
        }
    }

    [Browsable(false)]
    [DesignerSerializationVisibilityAttribute(System.ComponentModel.DesignerSerializationVisibility.Hidden)]
    public CrystalDecisions.CrystalReports.Engine.Section Section1 {
        get {
            return this.ReportDefinition.Sections[0];
        }
    }

    [Browsable(false)]
    [DesignerSerializationVisibilityAttribute(System.ComponentModel.DesignerSerializationVisibility.Hidden)]
    public CrystalDecisions.CrystalReports.Engine.Section Section2 {
        get {
            return this.ReportDefinition.Sections[1];
        }
    }

    [Browsable(false)]
    [DesignerSerializationVisibilityAttribute(System.ComponentModel.DesignerSerializationVisibility.Hidden)]
    public CrystalDecisions.CrystalReports.Engine.Section Section3 {
        get {
            return this.ReportDefinition.Sections[2];
        }
    }
}

```

```

[Browsable(false)]
[DesignerSerializationVisibilityAttribute(System.ComponentModel.DesignerSeriali
public CrystalDecisions.CrystalReports.Engine.Section Section4 {
    get {
        return this.ReportDefinition.Sections[3];
    }
}

[Browsable(false)]
[DesignerSerializationVisibilityAttribute(System.ComponentModel.DesignerSeriali
public CrystalDecisions.CrystalReports.Engine.Section Section5 {
    get {
        return this.ReportDefinition.Sections[4];
    }
}
}

[System.Drawing.ToolboxBitmapAttribute(typeof(CrystalDecisions.Shared.ExportOptions
public class CachedCrystalReport1 : Component, ICachedReport {

    public CachedCrystalReport1() {
    }

    [Browsable(false)]
    [DesignerSerializationVisibilityAttribute(System.ComponentModel.DesignerSeriali
    public virtual bool IsCacheable {
        get {
            return true;
        }
        set {
            //
        }
    }

    [Browsable(false)]
    [DesignerSerializationVisibilityAttribute(System.ComponentModel.DesignerSeriali
    public virtual bool ShareDBLogonInfo {
        get {
            return false;
        }
        set {
            //
        }
    }

    [Browsable(false)]
    [DesignerSerializationVisibilityAttribute(System.ComponentModel.DesignerSeriali
    public virtual System.TimeSpan CacheTimeout {
        get {
            return CachedReportConstants.DEFAULT_TIMEOUT;
        }
        set {
            //
        }
    }

    public virtual CrystalDecisions.CrystalReports.Engine.ReportDocument CreateRep
        CrystalReport1 rpt = new CrystalReport1();
        rpt.Site = this.Site;

```

```

        return rpt;
    }

    public virtual string GetCustomizedCacheKey(RequestContext request) {
        String key = null;
        // // The following is the code used to generate the default
        // // cache key for caching report jobs in the ASP.NET Cache.
        // // Feel free to modify this code to suit your needs.
        // // Returning key == null causes the default cache key to
        // // be generated.
        //
        // key = RequestContext.BuildCompleteCacheKey(
        //     request,
        //     null, // sReportFilename
        //     this.GetType(),
        //     this.ShareDBLogonInfo );
        return key;
    }
}

```

Form1.Designer.cs

```

namespace BarcodeInCrystalReports
{
    partial class Form1
    {
        private System.ComponentModel.IContainer components = null;

        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        private void InitializeComponent()
        {
            this.crystalReportViewer1 = new CrystalDecisions.Windows.Forms.CrystalReportViewer();
            this.CrystalReport11 = new BarcodeInCrystalReports.CrystalReport11();
            this.SuspendLayout();
            //
            // crystalReportViewer1
            //
            this.crystalReportViewer1.ActiveViewIndex = 0;
            this.crystalReportViewer1.BorderStyle = System.Windows.Forms.BorderStyle.None;
        }

        #endregion
    }
}

```

```

        this.crystalReportViewer1.Cursor = System.Windows.Forms.Cursors.Default;
        this.crystalReportViewer1.Dock = System.Windows.Forms.DockStyle.Fill;
        this.crystalReportViewer1.Location = new System.Drawing.Point(0, 0);
        this.crystalReportViewer1.Name = "crystalReportViewer1";
        this.crystalReportViewer1.ReportSource = this.CrystalReport11;
        this.crystalReportViewer1.Size = new System.Drawing.Size(799, 566);
        this.crystalReportViewer1.TabIndex = 0;
        this.crystalReportViewer1.Load += new System.EventHandler(this.crystalReportViewer1_Load);
        //
        // Form1
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(799, 566);
        this.Controls.Add(this.crystalReportViewer1);
        this.Name = "Form1";
        this.Text = "Form1";
        this.ResumeLayout(false);
    }

    #endregion

    private CrystalDecisions.Windows.Forms.CrystalReportViewer crystalReportViewer1;
    private CrystalReport1 CrystalReport11;
}
}

```

Form1.cs

```

using System;
using System.Data;
using System.Data.OleDb;
using System.Windows.Forms;
using Bytescout.BarCode;

namespace BarcodeInCrystalReports
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void crystalReportViewer1_Load(object sender, EventArgs e)
        {
            try
            {

```

```

OleDbConnection connection = new OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source=ProductsDataSet.accdb");
OleDbDataAdapter dataAdapter = new OleDbDataAdapter("SELECT * FROM Products", connection);

// fill dataset
DataSet dataSet = new DataSet();
dataAdapter.Fill(dataSet);

connection.Close();

// add virtual column into the result table
dataSet.Tables[0].Columns.Add(new DataColumn("BarcodeImage", typeof(byte[])));

// create barcode object
Barcode barcode = new Barcode(SymbologyType.Code128);
barcode.DrawCaption = false;

// Fill BarcodeImage column with generated barcode image
foreach (DataRow row in dataSet.Tables[0].Rows)
{
    // set barcode value
    barcode.Value = Convert.ToString(row["ID"]);

    // retrieve generated image bytes
    byte[] barcodeBytes = barcode.GetImageBytesWMF(100);

    // fill virtual column with generated image bytes
    row["BarcodeImage"] = barcodeBytes;
}

// set filled DataSet as report's data source
CrystalReport11.SetDataSource(dataSet.Tables[0]);
}
catch (Exception ex)
{
    MessageBox.Show("Error: " + ex.Message);
}
}
}
}

```

## ProductsDataSet.xsc

```

<?xml version="1.0" encoding="utf-8"?>
<!--  

</autogenerated-->
<DataSetUISetting Version="1.00" xmlns="urn:schemas-microsoft-com:xml-msdatasource">
    <TableUISettings />

```

```
</DataSetUISetting>
```

ProductsDataSet.xsd

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema id="ProductsDataSet" targetNamespace="http://tempuri.org/ProductsDataSet.xsd"
  xmlns:xs="http://www.w3.org/2001/XMLSchema-instance"
  <xs:annotation>
    <xs:appinfo source="urn:schemas-microsoft-com:xml-msdatasource">
      <DataSource DefaultConnectionIndex="0" FunctionsComponentName="QueriesTableAdapter"
        <Connections>
          <Connection AppSettingsObjectName="Settings" AppSettingsPropertyName="productsConnectionString"
            </Connections>
          <Tables>
            <TableAdapter BaseClass="System.ComponentModel.Component" DataAccessorModifier="<MainSource>
              <DbSource ConnectionRef="productsConnectionString (Settings)" DbObjectName="ProductsDataSet.Products"
                <DeleteCommand>
                  <DbCommand CommandType="Text" ModifiedByUser="false">
                    <CommandText>DELETE FROM `Products` WHERE ((`ID` = ?) AND ((? = 1 />
                    <Parameters>
                      <Parameter AllowDBNull="false" AutogeneratedName="" DataSourceName=""
                        <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName=""
                          <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName=""
                            <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName=""
                              <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName=""
                                <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName=""
                                  </Parameters>
                                </DbCommand>
                              </DeleteCommand>
                            <InsertCommand>
                              <DbCommand CommandType="Text" ModifiedByUser="false">
                                <CommandText>INSERT INTO `Products` (`ProductName`, `ProductDescription`,
                                  <Parameters>
                                    <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName=""
                                      <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName=""
                                        <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName=""
                                          </Parameters>
                                        </DbCommand>
                                      </InsertCommand>
                                    <SelectCommand>
                                      <DbCommand CommandType="Text" ModifiedByUser="false">
                                        <CommandText>SELECT ID, ProductName, ProductDescription, ProductPrice
                                          <Parameters />
                                        </DbCommand>
                                      </SelectCommand>
                                    <UpdateCommand>
                                      <DbCommand CommandType="Text" ModifiedByUser="false">
                                        <CommandText>UPDATE `Products` SET `ProductName` = ?, `ProductDescription` = ?
                                          <Parameters>
                                            <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName=""
                                              </Parameters>
                                            </DbCommand>
                                          </UpdateCommand>
                                        </TableAdapter>
                                      </Tables>
                                </MainSource>
                              </TableAdapter>
                            </Tables>
                          </Connections>
                        </DataSource>
                      </xs:appinfo>
                    </xs:annotation>
                  </xs:schema>
                </?xml>
```



```

        <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName="" />
        <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName="" />
        <Parameter AllowDBNull="false" AutogeneratedName="" DataSourceName="" />
        <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName="" />
        <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName="" />
        <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName="" />
        <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName="" />
        <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName="" />
        <Parameter AllowDBNull="true" AutogeneratedName="" DataSourceName="" />
    </Parameters>
</DbCommand>
</UpdateCommand>
</DbSource>
</MainSource>
<Mappings>
    <Mapping SourceColumn="ID" DataSetColumn="ID" />
    <Mapping SourceColumn="ProductName" DataSetColumn="ProductName" />
    <Mapping SourceColumn="ProductDescription" DataSetColumn="ProductDescription" />
    <Mapping SourceColumn="ProductPrice" DataSetColumn="ProductPrice" />
</Mappings>
<Sources />
</TableAdapter>
</Tables>
<Sources />
</DataSource>
</xs:appinfo>
</xs:annotation>
<xs:element name="ProductsDataSet" msdata:IsDataSet="true" msdata:UseCurrentLocale="true">
    <xs:complexType>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
            <xs:element name="Products" msprop:Generator_TableClassName="ProductsDataTable" msprop:Generator_TableObjectName="Products">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="ID" msdata:AutoIncrement="true" msdata:AutoIncrementSeed="1" msdata:AutoIncrementStep="1">
                            <xs:simpleType>
                                <xs:restriction base="xs:string">
                                    <xs:maxLength value="255" />
                                </xs:restriction>
                            </xs:simpleType>
                        </xs:element>
                        <xs:element name="ProductName" msprop:Generator_ColumnVarNameInTable="columnName" msprop:Generator_ColumnOrdinal="1">
                            <xs:simpleType>
                                <xs:restriction base="xs:string">
                                    <xs:maxLength value="255" />
                                </xs:restriction>
                            </xs:simpleType>
                        </xs:element>
                        <xs:element name="ProductDescription" msprop:Generator_ColumnVarNameInTable="columnName" msprop:Generator_ColumnOrdinal="2">
                            <xs:simpleType>
                                <xs:restriction base="xs:string">
                                    <xs:maxLength value="255" />
                                </xs:restriction>
                            </xs:simpleType>
                        </xs:element>
                        <xs:element name="ProductPrice" msprop:Generator_ColumnVarNameInTable="columnName" msprop:Generator_ColumnOrdinal="3">
                            <xs:simpleType>
                                <xs:restriction base="xs:string">
                                    <xs:maxLength value="255" />
                                </xs:restriction>
                            </xs:simpleType>
                        </xs:element>
                        <xs:element name="BarcodeImage" msprop:Generator_ColumnVarNameInTable="columnName" msprop:Generator_ColumnOrdinal="4">
                            <xs:simpleType>
                                <xs:restriction base="xs:string">
                                    <xs:maxLength value="255" />
                                </xs:restriction>
                            </xs:simpleType>
                        </xs:element>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:choice>
    </xs:element>
</ProductsDataSet>

```

```

</xs:complexType>
<xs:unique name="Constraint1" msdata:PrimaryKey="true">
  <xs:selector xpath="//mstns:Products" />
  <xs:field xpath="mstns:ID" />
</xs:unique>
</xs:element>
</xs:schema>

```

ProductsDataSet.xss

```

<?xml version="1.0" encoding="utf-8"?>
<!--<autogenerated>
  This code was generated by a tool to store the dataset designer's layout informat
  Changes to this file may cause incorrect behavior and will be lost if
  the code is regenerated.
</autogenerated-->
<DiagramLayout xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://
  <Shapes>
    <Shape ID="DesignTable:Products" ZOrder="1" X="70" Y="70" Height="172" Width="196"
  </Shapes>
  <Connectors />
</DiagramLayout>

```

ProductsDataSet1.Designer.cs

```

//-----
// <auto-generated>
//   This code was generated by a tool.
//   Runtime Version:4.0.30319.34014
//
//   Changes to this file may cause incorrect behavior and will be lost if
//   the code is regenerated.
// </auto-generated>
//-----

#pragma warning disable 1591

namespace BarcodeInCrystalReports {

    /// <summary>
    ///Represents a strongly typed in-memory cache of data.

```

```

///</summary>
[global::System.Serializable()]
[global::System.ComponentModel.DesignerCategoryAttribute("code")]
[global::System.ComponentModel.ToolboxItem(true)]
[global::System.Xml.Serialization.XmlSchemaProviderAttribute("GetTypedDataSetSchema")]
[global::System.Xml.Serialization.XmlRootAttribute("ProductsDataSet")]
[global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.DataSet")]
public partial class ProductsDataSet : global::System.Data.DataSet {

    private ProductsDataTable tableProducts;

    private global::System.Data.SchemaSerializationMode _schemaSerializationMode =

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeGen", "1.0.0")]
    public ProductsDataSet() {
        this.BeginInit();
        this.InitClass();
        global::System.ComponentModel.CollectionChangeEventHandler schemaChangedHandler;
        base.Tables.CollectionChanged += schemaChangedHandler;
        base.Relations.CollectionChanged += schemaChangedHandler;
        this.EndInit();
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeGen", "1.0.0")]
    protected ProductsDataSet(global::System.Runtime.Serialization.SerializationInfo info, global::System.Runtime.Serialization.StreamingContext context) {
        base(info, context, false) {
            if ((this.IsBinarySerialized(info, context) == true)) {
                this.InitVars(false);
                global::System.ComponentModel.CollectionChangeEventHandler schemaChangedHandler1;
                this.Tables.CollectionChanged += schemaChangedHandler1;
                this.Relations.CollectionChanged += schemaChangedHandler1;
                return;
            }
            string strSchema = ((string)(info.GetValue("XmlSchema", typeof(string))));
            if ((this.DetermineSchemaSerializationMode(info, context) == global::System.Data.SchemaSerializationMode.IncludeSchema)) {
                global::System.Data.DataSet ds = new global::System.Data.DataSet();
                ds.ReadXmlSchema(new global::System.Xml.XmlTextReader(new global::System.IO.StringReader(strSchema)));
                if ((ds.Tables["Products"] != null)) {
                    base.Tables.Add(new ProductsDataTable(ds.Tables["Products"]));
                }
                this.DataSetName = ds.DataSetName;
                this.Prefix = ds.Prefix;
                this.Namespace = ds.Namespace;
                this.Locale = ds.Locale;
                this.CaseSensitive = ds.CaseSensitive;
                this.EnforceConstraints = ds.EnforceConstraints;
                this.Merge(ds, false, global::System.Data.MissingSchemaAction.Add);
                this.InitVars();
            }
            else {
                this.ReadXmlSchema(new global::System.Xml.XmlTextReader(new global::System.IO.StringReader(strSchema)));
            }
            this.GetSerializationData(info, context);
            global::System.ComponentModel.CollectionChangeEventHandler schemaChangedHandler2;
            base.Tables.CollectionChanged += schemaChangedHandler2;
            this.Relations.CollectionChanged += schemaChangedHandler2;
        }
    }
}

```

```

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
[global::System.ComponentModel.Browsable(false)]
[global::System.ComponentModel.DesignerSerializationVisibility(global::System.ComponentModel.DesignerSerializationVisibility.Hidden)]
public ProductsDataTable Products {
    get {
        return this.tableProducts;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
[global::System.ComponentModel.BrowsableAttribute(true)]
[global::System.ComponentModel.DesignerSerializationVisibilityAttribute(global::System.ComponentModel.DesignerSerializationVisibility.Visible)]
public override global::System.Data.SchemaSerializationMode SchemaSerializationMode {
    get {
        return this._schemaSerializationMode;
    }
    set {
        this._schemaSerializationMode = value;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
[global::System.ComponentModel.DesignerSerializationVisibilityAttribute(global::System.ComponentModel.DesignerSerializationVisibility.Hidden)]
public new global::System.Data.DataTableCollection Tables {
    get {
        return base.Tables;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
[global::System.ComponentModel.DesignerSerializationVisibilityAttribute(global::System.ComponentModel.DesignerSerializationVisibility.Hidden)]
public new global::System.Data.DataRelationCollection Relations {
    get {
        return base.Relations;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
protected override void InitializeDerivedDataSet() {
    this.BeginInit();
    this.InitClass();
    this.EndInit();
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
public override global::System.Data.DataSet Clone() {
    ProductsDataSet cln = ((ProductsDataSet)(base.Clone()));
    cln.InitVars();
    cln.SchemaSerializationMode = this.SchemaSerializationMode;
    return cln;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]

```

```

protected override bool ShouldSerializeTables() {
    return false;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
protected override bool ShouldSerializeRelations() {
    return false;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
protected override void ReadXmlSerializable(global::System.Xml.XmlReader reader) {
    if ((this.DetermineSchemaSerializationMode(reader) == global::System.Data.SchemaSerializationMode.IncludeSchema)) {
        this.Reset();
        global::System.Data.DataSet ds = new global::System.Data.DataSet();
        ds.ReadXml(reader);
        if ((ds.Tables["Products"] != null)) {
            base.Tables.Add(new ProductsDataTable(ds.Tables["Products"]));
        }
        this.DataSetName = ds.DataSetName;
        this.Prefix = ds.Prefix;
        this.Namespace = ds.Namespace;
        this.Locale = ds.Locale;
        this.CaseSensitive = ds.CaseSensitive;
        this.EnforceConstraints = ds.EnforceConstraints;
        this.Merge(ds, false, global::System.Data.MissingSchemaAction.Add);
        this.InitVars();
    }
    else {
        this.ReadXml(reader);
        this.InitVars();
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
protected override global::System.Xml.Schema.XmlSchema GetSchemaSerializable() {
    global::System.IO.MemoryStream stream = new global::System.IO.MemoryStream();
    this.WriteXmlSchema(new global::System.Xml.XmlTextWriter(stream, null));
    stream.Position = 0;
    return global::System.Xml.Schema.XmlSchema.Read(new global::System.Xml.XmlTextReader(stream));
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
internal void InitVars() {
    this.InitVars(true);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
internal void InitVars(bool initTable) {
    this.tableProducts = ((ProductsDataTable)(base.Tables["Products"]));
    if ((initTable == true)) {
        if ((this.tableProducts != null)) {
            this.tableProducts.InitVars();
        }
    }
}
}

```

```

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
private void InitClass() {
    this.DataSetName = "ProductsDataSet";
    this.Prefix = "";
    this.Namespace = "http://tempuri.org/ProductsDataSet.xsd";
    this.EnforceConstraints = true;
    this.SchemaSerializationMode = global::System.Data.SchemaSerializationMode.IncludeSchema;
    this.tableProducts = new ProductsDataTable();
    base.Tables.Add(this.tableProducts);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
private bool ShouldSerializeProducts() {
    return false;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
private void SchemaChanged(object sender, global::System.ComponentModel.CollectionChangeEventArgs e) {
    if ((e.Action == global::System.ComponentModel.CollectionChangeAction.Remove)) {
        this.InitVars();
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
public static global::System.Xml.Schema.XmlSchemaComplexType GetTypedDataSetSchema() {
    ProductsDataSet ds = new ProductsDataSet();
    global::System.Xml.Schema.XmlSchemaComplexType type = new global::System.Xml.Schema.XmlSchemaComplexType();
    global::System.Xml.Schema.XmlSchemaSequence sequence = new global::System.Xml.Schema.XmlSchemaSequence();
    global::System.Xml.Schema.XmlSchemaAny any = new global::System.Xml.Schema.XmlSchemaAny();
    any.Namespace = ds.Namespace;
    sequence.Items.Add(any);
    type.Particle = sequence;
    global::System.Xml.Schema.XmlSchema dsSchema = ds.GetSchemaSerializable();
    if (xs.Contains(dsSchema.TargetNamespace)) {
        global::System.IO.MemoryStream s1 = new global::System.IO.MemoryStream();
        global::System.IO.MemoryStream s2 = new global::System.IO.MemoryStream();
        try {
            global::System.Xml.Schema.XmlSchema schema = null;
            dsSchema.Write(s1);
            for (global::System.Collections.IEnumerator schemas = xs.Schemas(dsSchema.TargetNamespace); schemas.MoveNext(); schema = ((global::System.Xml.Schema.XmlSchema)schemas.Current)) {
                s2.SetLength(0);
                schema.Write(s2);
                if ((s1.Length == s2.Length)) {
                    s1.Position = 0;
                    s2.Position = 0;
                    for (; ((s1.Position != s1.Length)
                        && (s1.ReadByte() == s2.ReadByte())); ) {
                        ;
                    }
                    if ((s1.Position == s1.Length)) {
                        return type;
                    }
                }
            }
        }
        catch {
        }
    }
}

```

```

    }
    finally {
        if ((s1 != null)) {
            s1.Close();
        }
        if ((s2 != null)) {
            s2.Close();
        }
    }
}
xs.Add(dsSchema);
return type;
}

```

```

[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
public delegate void ProductsRowChangeEventHandler(object sender, ProductsRowChangeEvent e);

```

```

/// <summary>

```

```

///Represents the strongly named DataTable class.

```

```

///</summary>

```

```

[global::System.Serializable()]

```

```

[global::System.Xml.Serialization.XmlSchemaProviderAttribute("GetTypedTableSchema")]
public partial class ProductsDataTable : global::System.Data.DataTable, global::System.Data.IDataAdapter

```

```

    private global::System.Data.DataColumn columnID;

```

```

    private global::System.Data.DataColumn columnProductName;

```

```

    private global::System.Data.DataColumn columnProductDescription;

```

```

    private global::System.Data.DataColumn columnProductPrice;

```

```

    private global::System.Data.DataColumn columnBarcodeImage;

```

```

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]

```

```

[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]

```

```

public ProductsDataTable() {
    this.TableName = "Products";
    this.BeginInit();
    this.InitClass();
    this.EndInit();
}

```

```

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]

```

```

[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]

```

```

internal ProductsDataTable(global::System.Data.DataTable table) {
    this.TableName = table.TableName;
    if ((table.CaseSensitive != table.DataSet.CaseSensitive)) {
        this.CaseSensitive = table.CaseSensitive;
    }
    if ((table.Locale.ToString() != table.DataSet.Locale.ToString())) {
        this.Locale = table.Locale;
    }
    if ((table.Namespace != table.DataSet.Namespace)) {
        this.Namespace = table.Namespace;
    }
    this.Prefix = table.Prefix;
    this.MinimumCapacity = table.MinimumCapacity;
}

```

```

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
protected ProductsDataTable(global::System.Runtime.Serialization.Serializa
    base(info, context) {
        this.InitVars();
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public global::System.Data.DataColumn IDColumn {
    get {
        return this.columnID;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public global::System.Data.DataColumn ProductNameColumn {
    get {
        return this.columnProductName;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public global::System.Data.DataColumn ProductDescriptionColumn {
    get {
        return this.columnProductDescription;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public global::System.Data.DataColumn ProductPriceColumn {
    get {
        return this.columnProductPrice;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public global::System.Data.DataColumn BarcodeImageColumn {
    get {
        return this.columnBarcodeImage;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
[global::System.ComponentModel.Browsable(false)]
public int Count {
    get {
        return this.Rows.Count;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public ProductsRow this[int index] {
    get {

```



```

        return ((ProductsRow)(this.Rows[index]));
    }
}

[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
public event ProductsRowChangeEventHandler ProductsRowChanging;

[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
public event ProductsRowChangeEventHandler ProductsRowChanged;

[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
public event ProductsRowChangeEventHandler ProductsRowDeleting;

[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
public event ProductsRowChangeEventHandler ProductsRowDeleted;

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
public void AddProductsRow(ProductsRow row) {
    this.Rows.Add(row);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
public ProductsRow AddProductsRow(string ProductName, string ProductDescription) {
    ProductsRow rowProductsRow = ((ProductsRow)(this.NewRow()));
    object[] columnValuesArray = new object[] {
        null,
        ProductName,
        ProductDescription,
        ProductPrice,
        BarcodeImage};
    rowProductsRow.ItemArray = columnValuesArray;
    this.Rows.Add(rowProductsRow);
    return rowProductsRow;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
public ProductsRow FindByID(int ID) {
    return ((ProductsRow)(this.Rows.Find(new object[] {
        ID})));
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
public virtual global::System.Collections.IEnumerator GetEnumerator() {
    return this.Rows.GetEnumerator();
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
public override global::System.Data.DataTable Clone() {
    ProductsDataTable cln = ((ProductsDataTable)(base.Clone()));
    cln.InitVars();
    return cln;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]

```

```

protected override global::System.Data.DataTable CreateInstance() {
    return new ProductsDataTable();
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
internal void InitVars() {
    this.columnID = base.Columns["ID"];
    this.columnProductName = base.Columns["ProductName"];
    this.columnProductDescription = base.Columns["ProductDescription"];
    this.columnProductPrice = base.Columns["ProductPrice"];
    this.columnBarcodeImage = base.Columns["BarcodeImage"];
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
private void InitClass() {
    this.columnID = new global::System.Data.DataColumn("ID", typeof(int),
base.Columns.Add(this.columnID);
    this.columnProductName = new global::System.Data.DataColumn("ProductNa
base.Columns.Add(this.columnProductName);
    this.columnProductDescription = new global::System.Data.DataColumn("Pro
base.Columns.Add(this.columnProductDescription);
    this.columnProductPrice = new global::System.Data.DataColumn("ProductPr
base.Columns.Add(this.columnProductPrice);
    this.columnBarcodeImage = new global::System.Data.DataColumn("BarcodeIm
base.Columns.Add(this.columnBarcodeImage);
    this.Constraints.Add(new global::System.Data.UniqueConstraint("Constrai
        this.columnID}, true));
    this.columnID.AutoIncrement = true;
    this.columnID.AutoIncrementSeed = -1;
    this.columnID.AutoIncrementStep = -1;
    this.columnID.AllowDBNull = false;
    this.columnID.Unique = true;
    this.columnProductName.MaxLength = 255;
    this.columnProductDescription.MaxLength = 255;
    this.columnProductPrice.MaxLength = 255;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
public ProductsRow NewProductsRow() {
    return ((ProductsRow)(this.NewRow()));
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
protected override global::System.Data.DataRow NewRowFromBuilder(global::S
    return new ProductsRow(builder);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
protected override global::System.Type GetRowType() {
    return typeof(ProductsRow);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
protected override void OnRowChanged(global::System.Data.DataRowChangeEvent

```

```

        base.OnRowChanged(e);
        if ((this.ProductsRowChanged != null)) {
            this.ProductsRowChanged(this, new ProductsRowChangeEvent(((Products
        }
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
    protected override void OnRowChanging(global::System.Data.DataRowChangeEvent
        base.OnRowChanging(e);
        if ((this.ProductsRowChanging != null)) {
            this.ProductsRowChanging(this, new ProductsRowChangeEvent(((Product
        }
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
    protected override void OnRowDeleted(global::System.Data.DataRowChangeEvent
        base.OnRowDeleted(e);
        if ((this.ProductsRowDeleted != null)) {
            this.ProductsRowDeleted(this, new ProductsRowChangeEvent(((Product
        }
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
    protected override void OnRowDeleting(global::System.Data.DataRowChangeEvent
        base.OnRowDeleting(e);
        if ((this.ProductsRowDeleting != null)) {
            this.ProductsRowDeleting(this, new ProductsRowChangeEvent(((Product
        }
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
    public void RemoveProductsRow(ProductsRow row) {
        this.Rows.Remove(row);
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
    public static global::System.Xml.Schema.XmlSchemaComplexType GetTypedTableS
        global::System.Xml.Schema.XmlSchemaComplexType type = new global::Syste
        global::System.Xml.Schema.XmlSchemaSequence sequence = new global::Syste
        ProductsDataSet ds = new ProductsDataSet();
        global::System.Xml.Schema.XmlSchemaAny any1 = new global::System.Xml.S
        any1.Namespace = "http://www.w3.org/2001/XMLSchema";
        any1.MinOccurs = new decimal(0);
        any1.MaxOccurs = decimal.MaxValue;
        any1.ProcessContents = global::System.Xml.Schema.XmlSchemaContentProces
        sequence.Items.Add(any1);
        global::System.Xml.Schema.XmlSchemaAny any2 = new global::System.Xml.S
        any2.Namespace = "urn:schemas-microsoft-com:xml-diffgram-v1";
        any2.MinOccurs = new decimal(1);
        any2.ProcessContents = global::System.Xml.Schema.XmlSchemaContentProces
        sequence.Items.Add(any2);
        global::System.Xml.Schema.XmlSchemaAttribute attribute1 = new global::S
        attribute1.Name = "namespace";
        attribute1.FixedValue = ds.Namespace;
        type.Attributes.Add(attribute1);

```

```

        global::System.Xml.Schema.XmlSchemaAttribute attribute2 = new global::System.Xml.Schema.XmlSchemaAttribute
        attribute2.Name = "tableName";
        attribute2.FixedValue = "ProductsDataTable";
        type.Attributes.Add(attribute2);
        type.Particle = sequence;
        global::System.Xml.Schema.XmlSchema dsSchema = ds.GetSchemaSerializable(
        if (xs.Contains(dsSchema.TargetNamespace)) {
            global::System.IO.MemoryStream s1 = new global::System.IO.MemoryStream();
            global::System.IO.MemoryStream s2 = new global::System.IO.MemoryStream();
            try {
                global::System.Xml.Schema.XmlSchema schema = null;
                dsSchema.Write(s1);
                for (global::System.Collections.IEnumerator schemas = xs.Schemas(dsSchema.TargetNamespace) {
                    schema = ((global::System.Xml.Schema.XmlSchema)schemas.Current);
                    s2.SetLength(0);
                    schema.Write(s2);
                    if ((s1.Length == s2.Length)) {
                        s1.Position = 0;
                        s2.Position = 0;
                        for (; ((s1.Position != s1.Length)
                            && (s1.ReadByte() == s2.ReadByte())); ) {
                            ;
                        }
                        if ((s1.Position == s1.Length)) {
                            return type;
                        }
                    }
                }
            }
            finally {
                if ((s1 != null)) {
                    s1.Close();
                }
                if ((s2 != null)) {
                    s2.Close();
                }
            }
        }
        xs.Add(dsSchema);
        return type;
    }
}

/// <summary>
/// Represents strongly named DataRow class.
/// </summary>
public partial class ProductsRow : global::System.Data.DataRow {

    private ProductsDataTable tableProducts;

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design", "ProductsRow", "1.0.0.0")]
    internal ProductsRow(global::System.Data.DataRowBuilder rb) :
        base(rb) {
        this.tableProducts = ((ProductsDataTable)(this.Table));
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design", "ProductsRow", "1.0.0.0")]
    public int ID {

```

```

        get {
            return ((int)(this[this.tableProducts.IDColumn]));
        }
        set {
            this[this.tableProducts.IDColumn] = value;
        }
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
    public string ProductName {
        get {
            try {
                return ((string)(this[this.tableProducts.ProductNameColumn]));
            }
            catch (global::System.InvalidCastException e) {
                throw new global::System.Data.StrongTypingException("The value", e);
            }
        }
        set {
            this[this.tableProducts.ProductNameColumn] = value;
        }
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
    public string ProductDescription {
        get {
            try {
                return ((string)(this[this.tableProducts.ProductDescriptionColumn]));
            }
            catch (global::System.InvalidCastException e) {
                throw new global::System.Data.StrongTypingException("The value", e);
            }
        }
        set {
            this[this.tableProducts.ProductDescriptionColumn] = value;
        }
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
    public string ProductPrice {
        get {
            try {
                return ((string)(this[this.tableProducts.ProductPriceColumn]));
            }
            catch (global::System.InvalidCastException e) {
                throw new global::System.Data.StrongTypingException("The value", e);
            }
        }
        set {
            this[this.tableProducts.ProductPriceColumn] = value;
        }
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design")]
    public byte[] BarcodeImage {
        get {

```

```

        try {
            return ((byte[])(this[this.tableProducts.BarcodeImageColumn]))
        }
        catch (global::System.InvalidCastException e) {
            throw new global::System.Data.StrongTypingException("The value
        }
    }
    set {
        this[this.tableProducts.BarcodeImageColumn] = value;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public bool IsProductNameNull() {
    return this.IsNull(this.tableProducts.ProductNameColumn);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public void SetProductNameNull() {
    this[this.tableProducts.ProductNameColumn] = global::System.Convert.DB
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public bool IsProductDescriptionNull() {
    return this.IsNull(this.tableProducts.ProductDescriptionColumn);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public void SetProductDescriptionNull() {
    this[this.tableProducts.ProductDescriptionColumn] = global::System.Conv
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public bool IsProductPriceNull() {
    return this.IsNull(this.tableProducts.ProductPriceColumn);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public void SetProductPriceNull() {
    this[this.tableProducts.ProductPriceColumn] = global::System.Convert.D
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public bool IsBarcodeImageNull() {
    return this.IsNull(this.tableProducts.BarcodeImageColumn);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design
public void SetBarcodeImageNull() {
    this[this.tableProducts.BarcodeImageColumn] = global::System.Convert.D
}
}

```

```

    /// <summary>
    ///Row event argument class
    ///</summary>
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "10.0.0.0", "en-US")]
    public class ProductsRowChangeEvent : global::System.EventArgs {

        private ProductsRow eventRow;

        private global::System.Data.DataRowAction eventAction;

        [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
        [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "10.0.0.0", "en-US")]
        public ProductsRowChangeEvent(ProductsRow row, global::System.Data.DataRowAction action) {
            this.eventRow = row;
            this.eventAction = action;
        }

        [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
        [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "10.0.0.0", "en-US")]
        public ProductsRow Row {
            get {
                return this.eventRow;
            }
        }

        [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
        [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "10.0.0.0", "en-US")]
        public global::System.Data.DataRowAction Action {
            get {
                return this.eventAction;
            }
        }
    }
}

namespace BarcodeInCrystalReports.ProductsDataSetTableAdapters {

    /// <summary>
    ///Represents the connection and commands used to retrieve and save data.
    ///</summary>
    [global::System.ComponentModel.DesignerCategoryAttribute("code")]
    [global::System.ComponentModel.ToolboxItem(true)]
    [global::System.ComponentModel.DataObjectAttribute(true)]
    [global::System.ComponentModel.DesignerAttribute("Microsoft.VSDesigner.DataSourceDesigner", "Microsoft.VisualStudio.DesignTools", Version=10.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a)]
    [global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.TableAdapter")]
    public partial class ProductsTableAdapter : global::System.ComponentModel.Component {

        private global::System.Data.OleDb.OleDbDataAdapter _adapter;

        private global::System.Data.OleDb.OleDbConnection _connection;

        private global::System.Data.OleDb.OleDbCommand[] _commandCollection;

        private bool _clearBeforeFill;

        [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
        [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "10.0.0.0", "en-US")]

```

```

public ProductsTableAdapter() {
    this.ClearBeforeFill = true;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
private global::System.Data.OleDb.OleDbDataAdapter Adapter {
    get {
        if ((this._adapter == null)) {
            this.InitAdapter();
        }
        return this._adapter;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
internal global::System.Data.OleDb.OleDbConnection Connection {
    get {
        if ((this._connection == null)) {
            this.InitConnection();
        }
        return this._connection;
    }
    set {
        this._connection = value;
        if ((this.Adapter.InsertCommand != null)) {
            this.Adapter.InsertCommand.Connection = value;
        }
        if ((this.Adapter.DeleteCommand != null)) {
            this.Adapter.DeleteCommand.Connection = value;
        }
        if ((this.Adapter.UpdateCommand != null)) {
            this.Adapter.UpdateCommand.Connection = value;
        }
        for (int i = 0; (i < this.CommandCollection.Length); i = (i + 1)) {
            if ((this.CommandCollection[i] != null)) {
                ((global::System.Data.OleDb.OleDbCommand)(this.CommandCollection[i])).Connection = value;
            }
        }
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
protected global::System.Data.OleDb.OleDbCommand[] CommandCollection {
    get {
        if ((this._commandCollection == null)) {
            this.InitCommandCollection();
        }
        return this._commandCollection;
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
public bool ClearBeforeFill {
    get {
        return this._clearBeforeFill;
    }
}

```



```

        set {
            this._clearBeforeFill = value;
        }
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.Type", "1.0.0.0")]
    private void InitAdapter() {
        this._adapter = new global::System.Data.OleDb.OleDbDataAdapter();
        global::System.Data.Common.DataTableMapping tableMapping = new global::System.Data.Common.DataTableMapping();
        tableMapping.SourceTable = "Table";
        tableMapping.DataSetTable = "Products";
        tableMapping.ColumnMappings.Add("ID", "ID");
        tableMapping.ColumnMappings.Add("ProductName", "ProductName");
        tableMapping.ColumnMappings.Add("ProductDescription", "ProductDescription");
        tableMapping.ColumnMappings.Add("ProductPrice", "ProductPrice");
        this._adapter.TableMappings.Add(tableMapping);
        this._adapter.DeleteCommand = new global::System.Data.OleDb.OleDbCommand();
        this._adapter.DeleteCommand.Connection = this.Connection;
        this._adapter.DeleteCommand.CommandText = "DELETE FROM `Products` WHERE ((`ProductID` = ?) AND ((? = 1 AND `ProductDescription` IS NULL) OR (`ProductDescription` = ?)) AND ((? = 1 AND `ProductPrice` IS NULL) OR (`ProductPrice` = ?)))";
        this._adapter.DeleteCommand.CommandType = global::System.Data.CommandType.Text;
        this._adapter.DeleteCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P1", SqlDbType.Int));
        this._adapter.DeleteCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P2", SqlDbType.Int));
        this._adapter.DeleteCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P3", SqlDbType.Int));
        this._adapter.DeleteCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P4", SqlDbType.Int));
        this._adapter.DeleteCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P5", SqlDbType.Int));
        this._adapter.DeleteCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P6", SqlDbType.Int));
        this._adapter.InsertCommand = new global::System.Data.OleDb.OleDbCommand();
        this._adapter.InsertCommand.Connection = this.Connection;
        this._adapter.InsertCommand.CommandText = "INSERT INTO `Products` (`ProductID`, `ProductName`, `ProductDescription`, `ProductPrice`) VALUES (?, ?, ?)";
        this._adapter.InsertCommand.CommandType = global::System.Data.CommandType.Text;
        this._adapter.InsertCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P1", SqlDbType.Int));
        this._adapter.InsertCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P2", SqlDbType.NVarChar));
        this._adapter.InsertCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P3", SqlDbType.NVarChar));
        this._adapter.UpdateCommand = new global::System.Data.OleDb.OleDbCommand();
        this._adapter.UpdateCommand.Connection = this.Connection;
        this._adapter.UpdateCommand.CommandText = @"UPDATE `Products` SET `ProductID` = ?, `ProductName` = ?, `ProductDescription` = ?, `ProductPrice` = ? WHERE `ProductID` = ?";
        this._adapter.UpdateCommand.CommandType = global::System.Data.CommandType.Text;
        this._adapter.UpdateCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P1", SqlDbType.Int));
        this._adapter.UpdateCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P2", SqlDbType.NVarChar));
        this._adapter.UpdateCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P3", SqlDbType.NVarChar));
        this._adapter.UpdateCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P4", SqlDbType.Int));
        this._adapter.UpdateCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P5", SqlDbType.Int));
        this._adapter.UpdateCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P6", SqlDbType.Int));
        this._adapter.UpdateCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P7", SqlDbType.Int));
        this._adapter.UpdateCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P8", SqlDbType.Int));
        this._adapter.UpdateCommand.Parameters.Add(new global::System.Data.OleDb.OleDbCommandParameter("@P9", SqlDbType.Int));
    }

    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.Type", "1.0.0.0")]
    private void InitConnection() {
        this._connection = new global::System.Data.OleDb.OleDbConnection();
        this._connection.ConnectionString = global::BarcodeInCrystalReports.Properties.Resources.ConnectionString;
    }
}

```

```

}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
private void InitCommandCollection() {
    this._commandCollection = new global::System.Data.OleDb.OleDbCommand[1];
    this._commandCollection[0] = new global::System.Data.OleDb.OleDbCommand();
    this._commandCollection[0].Connection = this.Connection;
    this._commandCollection[0].CommandText = "SELECT ID, ProductName, ProductDe";
    this._commandCollection[0].CommandType = global::System.Data.CommandType.Text;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
[global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.TableAdapter")]
[global::System.ComponentModel.DataObjectMethodAttribute(global::System.ComponentModel.DataObjectMethodType.Fill)]
public virtual int Fill(ProductsDataSet.ProductsDataTable dataTable) {
    this.Adapter.SelectCommand = this.CommandCollection[0];
    if ((this.ClearBeforeFill == true)) {
        dataTable.Clear();
    }
    int returnValue = this.Adapter.Fill(dataTable);
    return returnValue;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
[global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.TableAdapter")]
[global::System.ComponentModel.DataObjectMethodAttribute(global::System.ComponentModel.DataObjectMethodType.GetData)]
public virtual ProductsDataSet.ProductsDataTable GetData() {
    this.Adapter.SelectCommand = this.CommandCollection[0];
    ProductsDataSet.ProductsDataTable dataTable = new ProductsDataSet.ProductsTable();
    this.Adapter.Fill(dataTable);
    return dataTable;
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
[global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.TableAdapter")]
public virtual int Update(ProductsDataSet.ProductsDataTable dataTable) {
    return this.Adapter.Update(dataTable);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
[global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.TableAdapter")]
public virtual int Update(ProductsDataSet dataSet) {
    return this.Adapter.Update(dataSet, "Products");
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]
[global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.TableAdapter")]
public virtual int Update(global::System.Data.DataRow dataRow) {
    return this.Adapter.Update(new global::System.Data.DataRow[] {
        dataRow});
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeCompiler", "1.0.0.0")]

```

```

[global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.TableAdapt
public virtual int Update(global::System.Data.DataRow[] dataRows) {
    return this.Adapter.Update(dataRows);
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.Type
[global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.TableAdapt
[global::System.ComponentModel.DataObjectMethodAttribute(global::System.Compon
public virtual int Delete(int Original_ID, string Original_ProductName, string
    this.Adapter.DeleteCommand.Parameters[0].Value = ((int)(Original_ID));
    if ((Original_ProductName == null)) {
        this.Adapter.DeleteCommand.Parameters[1].Value = ((object)(1));
        this.Adapter.DeleteCommand.Parameters[2].Value = global::System.DBNull
    }
    else {
        this.Adapter.DeleteCommand.Parameters[1].Value = ((object)(0));
        this.Adapter.DeleteCommand.Parameters[2].Value = ((string)(Original_Pro
    }
    if ((Original_ProductDescription == null)) {
        this.Adapter.DeleteCommand.Parameters[3].Value = ((object)(1));
        this.Adapter.DeleteCommand.Parameters[4].Value = global::System.DBNull
    }
    else {
        this.Adapter.DeleteCommand.Parameters[3].Value = ((object)(0));
        this.Adapter.DeleteCommand.Parameters[4].Value = ((string)(Original_Pro
    }
    if ((Original_ProductPrice == null)) {
        this.Adapter.DeleteCommand.Parameters[5].Value = ((object)(1));
        this.Adapter.DeleteCommand.Parameters[6].Value = global::System.DBNull
    }
    else {
        this.Adapter.DeleteCommand.Parameters[5].Value = ((object)(0));
        this.Adapter.DeleteCommand.Parameters[6].Value = ((string)(Original_Pro
    }
    global::System.Data.ConnectionState previousConnectionState = this.Adapter
    if (((this.Adapter.DeleteCommand.Connection.State & global::System.Data.Con
        != global::System.Data.ConnectionState.Open)) {
        this.Adapter.DeleteCommand.Connection.Open();
    }
    try {
        int returnValue = this.Adapter.DeleteCommand.ExecuteNonQuery();
        return returnValue;
    }
    finally {
        if ((previousConnectionState == global::System.Data.ConnectionState.Clo
            this.Adapter.DeleteCommand.Connection.Close());
        }
    }
}

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.Type
[global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.TableAdapt
[global::System.ComponentModel.DataObjectMethodAttribute(global::System.Compon
public virtual int Insert(string ProductName, string ProductDescription, string
    if ((ProductName == null)) {
        this.Adapter.InsertCommand.Parameters[0].Value = global::System.DBNull
    }
    else {

```

```

        this.Adapter.InsertCommand.Parameters[0].Value = ((string)(ProductName))
    }
    if ((ProductDescription == null)) {
        this.Adapter.InsertCommand.Parameters[1].Value = global::System.DBNull
    }
    else {
        this.Adapter.InsertCommand.Parameters[1].Value = ((string)(ProductDescription))
    }
    if ((ProductPrice == null)) {
        this.Adapter.InsertCommand.Parameters[2].Value = global::System.DBNull
    }
    else {
        this.Adapter.InsertCommand.Parameters[2].Value = ((string)(ProductPrice))
    }
    global::System.Data.ConnectionState previousConnectionState = this.Adapter
    if (((this.Adapter.InsertCommand.Connection.State & global::System.Data.ConnectionState.Closed)
        != global::System.Data.ConnectionState.Open)) {
        this.Adapter.InsertCommand.Connection.Open();
    }
    try {
        int returnValue = this.Adapter.InsertCommand.ExecuteNonQuery();
        return returnValue;
    }
    finally {
        if (previousConnectionState == global::System.Data.ConnectionState.Closed)
            this.Adapter.InsertCommand.Connection.Close();
    }
}

```

```

[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Data.Design.TypeAdapter", "1.0.0.0")]
[global::System.ComponentModel.Design.HelpKeywordAttribute("vs.data.TableAdapter")]
[global::System.ComponentModel.DataObjectMethodAttribute(global::System.ComponentModel.DataObjectMethodType.Update)]
public virtual int Update(string ProductName, string ProductDescription, string ProductPrice,
    int Original_ID, string Original_ProductName)
{
    if ((ProductName == null)) {
        this.Adapter.UpdateCommand.Parameters[0].Value = global::System.DBNull
    }
    else {
        this.Adapter.UpdateCommand.Parameters[0].Value = ((string)(ProductName))
    }
    if ((ProductDescription == null)) {
        this.Adapter.UpdateCommand.Parameters[1].Value = global::System.DBNull
    }
    else {
        this.Adapter.UpdateCommand.Parameters[1].Value = ((string)(ProductDescription))
    }
    if ((ProductPrice == null)) {
        this.Adapter.UpdateCommand.Parameters[2].Value = global::System.DBNull
    }
    else {
        this.Adapter.UpdateCommand.Parameters[2].Value = ((string)(ProductPrice))
    }
    this.Adapter.UpdateCommand.Parameters[3].Value = ((int)(Original_ID));
    if ((Original_ProductName == null)) {
        this.Adapter.UpdateCommand.Parameters[4].Value = ((object)(1));
        this.Adapter.UpdateCommand.Parameters[5].Value = global::System.DBNull
    }
    else {
        this.Adapter.UpdateCommand.Parameters[4].Value = ((object)(0));
    }
}

```

```

        this.Adapter.UpdateCommand.Parameters[5].Value = ((string)(Original_Pro
    }
    if ((Original_ProductDescription == null)) {
        this.Adapter.UpdateCommand.Parameters[6].Value = ((object)(1));
        this.Adapter.UpdateCommand.Parameters[7].Value = global::System.DBNull
    }
    else {
        this.Adapter.UpdateCommand.Parameters[6].Value = ((object)(0));
        this.Adapter.UpdateCommand.Parameters[7].Value = ((string)(Original_Pro
    }
    if ((Original_ProductPrice == null)) {
        this.Adapter.UpdateCommand.Parameters[8].Value = ((object)(1));
        this.Adapter.UpdateCommand.Parameters[9].Value = global::System.DBNull
    }
    else {
        this.Adapter.UpdateCommand.Parameters[8].Value = ((object)(0));
        this.Adapter.UpdateCommand.Parameters[9].Value = ((string)(Original_Pro
    }
    global::System.Data.ConnectionState previousConnectionState = this.Adapter
    if ((this.Adapter.UpdateCommand.Connection.State & global::System.Data.Co
        != global::System.Data.ConnectionState.Open)) {
        this.Adapter.UpdateCommand.Connection.Open();
    }
    try {
        int returnValue = this.Adapter.UpdateCommand.ExecuteNonQuery();
        return returnValue;
    }
    finally {
        if ((previousConnectionState == global::System.Data.ConnectionState.Cl
            this.Adapter.UpdateCommand.Connection.Close();
        }
    }
}
}
}
}

#pragma warning restore 1591

```

Program.cs

```

using System;
using System.Collections.Generic;
using System.Windows.Forms;

namespace BarcodeInCrystalReports
{
    static class Program
    {
        [STAThread]
        static void Main()
    }
}

```

```
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
        }
    }
}
```

app.config

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <configSections>
  </configSections>
  <connectionStrings>
    <add name="CrystalReportsApplication1.Properties.Settings.productsConnectionSt
      connectionString="Provider=Microsoft.Jet.OLEDB.4.0;Data Source=|DataDirect
      providerName="System.Data.OleDb" />
  </connectionStrings>
  <startup useLegacyV2RuntimeActivationPolicy="true">
    <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.0"/>
  </startup>
</configuration>
```

---

VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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