

calculations and spreadsheet as database in VB.NET and ByteScout Spreadsheet SDK

Make calculations and spreadsheet as database in VB.NET

:

Tutorial on how to do calculations and spreadsheet as database in VB.NET

Today we will explain the steps and algorithm of implementing calculations and spreadsheet as database and how to make it work in your application. ByteScout Spreadsheet SDK was made to help with calculations and spreadsheet as database in VB.NET. ByteScout Spreadsheet SDK is the library (SDK) that is capable of writing, reading, modifying and calculating Excel and CSV spreadsheets. Most popular formulas can be calculated and recalculated with Excel installed. You may import or export data to and from CSV, XML, JSON as well as to and from databases, arrays.

VB.NET, code samples for VB.NET, developers help to speed up the application development and writing a code when using ByteScout Spreadsheet SDK. Follow the instruction from the scratch to work and copy and paste code for VB.NET into your editor. You can use these VB.NET sample examples in one or many applications.

Trial version can be obtained from our website for free. It includes this and other source code samples for VB.NET.

FOR MORE INFORMATION AND FREE TRIAL:

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

Source Code Files:

Form1.Designer.vb

```
<Global.Microsoft.VisualBasic.CompilerServices.DesignerGenerated()> _
Partial Class Form1
    Inherits System.Windows.Forms.Form

    'Form overrides dispose to clean up the component list.
    <System.Diagnostics.DebuggerNonUserCode()> _
    Protected Overrides Sub Dispose(ByVal disposing As Boolean)
        If disposing AndAlso components IsNot Nothing Then
            components.Dispose()
        End If
        MyBase.Dispose(disposing)
    End Sub

    'Required by the Windows Form Designer
    Private components As System.ComponentModel.IContainer

    'NOTE: The following procedure is required by the Windows Form Designer
    'It can be modified using the Windows Form Designer.
    'Do not modify it using the code editor.
    <System.Diagnostics.DebuggerStepThrough()> _
    Private Sub InitializeComponent()
        Dim resources As System.ComponentModel.ComponentResourceManager = New System.C
        Me.GroupBox1 = New System.Windows.Forms.GroupBox
        Me.Button4 = New System.Windows.Forms.Button
        Me.TextBox4 = New System.Windows.Forms.TextBox
        Me.Label3 = New System.Windows.Forms.Label
        Me.TextBox3 = New System.Windows.Forms.TextBox
        Me.Label4 = New System.Windows.Forms.Label
        Me.TextBox2 = New System.Windows.Forms.TextBox
        Me.Label2 = New System.Windows.Forms.Label
        Me.TextBox1 = New System.Windows.Forms.TextBox
        Me.Label1 = New System.Windows.Forms.Label
        Me.Button1 = New System.Windows.Forms.Button
        Me.Button2 = New System.Windows.Forms.Button
        Me.Button3 = New System.Windows.Forms.Button
        Me.Label5 = New System.Windows.Forms.Label
        Me.GroupBox1.SuspendLayout()
        Me.SuspendLayout()
        '
        'GroupBox1
        '
        Me.GroupBox1.Controls.Add(Me.Button4)
        Me.GroupBox1.Controls.Add(Me.TextBox4)
        Me.GroupBox1.Controls.Add(Me.Label3)
        Me.GroupBox1.Controls.Add(Me.TextBox3)
        Me.GroupBox1.Controls.Add(Me.Label4)
        Me.GroupBox1.Controls.Add(Me.TextBox2)
        Me.GroupBox1.Controls.Add(Me.Label2)
        Me.GroupBox1.Controls.Add(Me.TextBox1)
        Me.GroupBox1.Controls.Add(Me.Label1)
    End Sub
End Class
```

```
Me.GroupBox1.Location = New System.Drawing.Point(12, 6)
Me.GroupBox1.Name = "GroupBox1"
Me.GroupBox1.Size = New System.Drawing.Size(166, 212)
Me.GroupBox1.TabIndex = 0
Me.GroupBox1.TabStop = False
'
'Button4
'
Me.Button4.Font = New System.Drawing.Font("Microsoft Sans Serif", 8.25!, System
Me.Button4.Location = New System.Drawing.Point(9, 175)
Me.Button4.Name = "Button4"
Me.Button4.Size = New System.Drawing.Size(135, 23)
Me.Button4.TabIndex = 14
Me.Button4.Text = "Recalculate"
Me.Button4.UseVisualStyleBackColor = True
'
'TextBox4
'
Me.TextBox4.Location = New System.Drawing.Point(9, 149)
Me.TextBox4.Name = "TextBox4"
Me.TextBox4.Size = New System.Drawing.Size(135, 20)
Me.TextBox4.TabIndex = 13
'
'Label3
'
Me.Label3.AutoSize = True
Me.Label3.Location = New System.Drawing.Point(6, 94)
Me.Label3.Name = "Label3"
Me.Label3.Size = New System.Drawing.Size(39, 13)
Me.Label3.TabIndex = 12
Me.Label3.Text = "Label3"
'
'TextBox3
'
Me.TextBox3.Location = New System.Drawing.Point(9, 110)
Me.TextBox3.Name = "TextBox3"
Me.TextBox3.Size = New System.Drawing.Size(135, 20)
Me.TextBox3.TabIndex = 11
'
'Label4
'
Me.Label4.AutoSize = True
Me.Label4.Location = New System.Drawing.Point(6, 133)
Me.Label4.Name = "Label4"
Me.Label4.Size = New System.Drawing.Size(39, 13)
Me.Label4.TabIndex = 10
Me.Label4.Text = "Label4"
'
'TextBox2
'
Me.TextBox2.Location = New System.Drawing.Point(9, 71)
Me.TextBox2.Name = "TextBox2"
Me.TextBox2.Size = New System.Drawing.Size(135, 20)
Me.TextBox2.TabIndex = 9
'
'Label2
'
Me.Label2.AutoSize = True
Me.Label2.Location = New System.Drawing.Point(6, 55)
Me.Label2.Name = "Label2"
```

```

Me.Label2.Size = New System.Drawing.Size(39, 13)
Me.Label2.TabIndex = 8
Me.Label2.Text = "Label2"
'
' TextBox1
'
Me.TextBox1.Location = New System.Drawing.Point(9, 32)
Me.TextBox1.Name = "TextBox1"
Me.TextBox1.Size = New System.Drawing.Size(135, 20)
Me.TextBox1.TabIndex = 7
'
' Label1
'
Me.Label1.AutoSize = True
Me.Label1.Location = New System.Drawing.Point(6, 16)
Me.Label1.Name = "Label1"
Me.Label1.Size = New System.Drawing.Size(39, 13)
Me.Label1.TabIndex = 6
Me.Label1.Text = "Label1"
'
' Button1
'
Me.Button1.Location = New System.Drawing.Point(184, 12)
Me.Button1.Name = "Button1"
Me.Button1.Size = New System.Drawing.Size(100, 23)
Me.Button1.TabIndex = 1
Me.Button1.Text = "Load from XLS"
Me.Button1.UseVisualStyleBackColor = True
'
' Button2
'
Me.Button2.Location = New System.Drawing.Point(184, 41)
Me.Button2.Name = "Button2"
Me.Button2.Size = New System.Drawing.Size(100, 23)
Me.Button2.TabIndex = 2
Me.Button2.Text = "Save to XLS"
Me.Button2.UseVisualStyleBackColor = True
'
' Button3
'
Me.Button3.Location = New System.Drawing.Point(184, 70)
Me.Button3.Name = "Button3"
Me.Button3.Size = New System.Drawing.Size(100, 23)
Me.Button3.TabIndex = 3
Me.Button3.Text = "View in Excel"
Me.Button3.UseVisualStyleBackColor = True
'
' Label5
'
Me.Label5.Location = New System.Drawing.Point(9, 236)
Me.Label5.Name = "Label5"
Me.Label5.Size = New System.Drawing.Size(275, 113)
Me.Label5.TabIndex = 4
Me.Label5.Text = resources.GetString("Label5.Text")
'
' Form1
'
Me.AutoScaleDimensions = New System.Drawing.SizeF(6.0!, 13.0!)
Me.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font
Me.ClientSize = New System.Drawing.Size(294, 372)

```

```
Me.Controls.Add(Me.Label5)
Me.Controls.Add(Me.Button3)
Me.Controls.Add(Me.Button2)
Me.Controls.Add(Me.Button1)
Me.Controls.Add(Me.GroupBox1)
Me.FormBorderStyle = System.Windows.Forms.FormBorderStyle.FixedToolWindow
Me.Name = "Form1"
Me.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen
Me.Text = "Simple Database"
Me.GroupBox1.ResumeLayout(False)
Me.GroupBox1.PerformLayout()
Me.ResumeLayout(False)
```

End Sub

```
Friend WithEvents GroupBox1 As System.Windows.Forms.GroupBox
Friend WithEvents TextBox3 As System.Windows.Forms.TextBox
Friend WithEvents Label4 As System.Windows.Forms.Label
Friend WithEvents TextBox2 As System.Windows.Forms.TextBox
Friend WithEvents Label2 As System.Windows.Forms.Label
Friend WithEvents TextBox1 As System.Windows.Forms.TextBox
Friend WithEvents Label1 As System.Windows.Forms.Label
Friend WithEvents TextBox4 As System.Windows.Forms.TextBox
Friend WithEvents Label3 As System.Windows.Forms.Label
Friend WithEvents Button4 As System.Windows.Forms.Button
Friend WithEvents Button1 As System.Windows.Forms.Button
Friend WithEvents Button2 As System.Windows.Forms.Button
Friend WithEvents Button3 As System.Windows.Forms.Button
Friend WithEvents Label5 As System.Windows.Forms.Label
```

End Class

Form1.vb

```
Imports Bytescout.Spreadsheet
Imports System.Diagnostics

Public Class Form1
    Dim _spreadsheet As Spreadsheet
    Private Sub LoadXLS()
        Dim worksheet As Worksheet
        _spreadsheet = New Spreadsheet()
        _spreadsheet.LoadFromFile("Database.xls")

        worksheet = _spreadsheet.WorkBook.Worksheets(0)
        Label1.Text = worksheet.Cell("A1").Value
        TextBox1.Text = worksheet.Cell("A2").Value

        Label2.Text = worksheet.Cell("B1").Value
        TextBox2.Text = worksheet.Cell("B2").Value
    End Sub
End Class
```

```

Label3.Text = worksheet.Cell("C1").Value
TextBox3.Text = worksheet.Cell("C2").Formula

Label4.Text = "Calculated value of C2"
worksheet.Cell("C2").Calculate()
TextBox4.Text = worksheet.Cell("C2").Value
End Sub

Private Sub SaveXLS()
    Dim worksheet As Worksheet

    worksheet = _spreadsheet.WorkBook.Worksheets(0)

    worksheet.Cell("A2").Value = System.Convert.ToInt32(TextBox1.Text)
    worksheet.Cell("B2").Value = System.Convert.ToInt32(TextBox2.Text)
    worksheet.Cell("C2").Formula = TextBox3.Text

    Try
        System.IO.File.Delete("Database.xls")
    Catch ex As Exception
    End Try

    _spreadsheet.SaveAs("Database.xls")
End Sub

Private Sub Form1_FormClosing(ByVal sender As System.Object, ByVal e As System.Windows.Forms.FormClosingEventArgs)
    SaveXLS()

    _spreadsheet.Close()
End Sub

Private Sub ReCalculate()
    Dim worksheet As Worksheet

    worksheet = _spreadsheet.Workbook.Worksheets(0)

    worksheet.Cell("A2").Value = System.Convert.ToInt32(TextBox1.Text)
    worksheet.Cell("B2").Value = System.Convert.ToInt32(TextBox2.Text)
    worksheet.Cell("C2").Formula = TextBox3.Text
    worksheet.Cell("C2").Calculate()
    TextBox4.Text = worksheet.Cell("C2").Value
End Sub

Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    ReCalculate()
End Sub

Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
    LoadXLS()
End Sub

Private Sub TextBox_Recalculate(ByVal sender As System.Object, ByVal e As System.EventArgs)
    ReCalculate()
End Sub

Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    ' open in default spreadsheets viewer/editor
    SaveXLS()

```

```
Try
    Process.Start("Database.xls")
Catch
End Try

End Sub

Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    LoadXLS()
    MessageBox.Show("Loaded from Database.xls")
End Sub

Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    SaveXLS()
    MessageBox.Show("Saved into Database.xls")
End Sub
End Class
```

VIDEO

https://www.youtube.com/watch?v=nm_7I0PN1TY

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