Private Sub MakeParentTable()

' Create a new DataTable.

Dim table As DataTable = new DataTable("ParentTable")

' Declare variables for DataColumn and DataRow objects.

Dim column As DataColumn

Dim row As DataRow

' Create new DataColumn, set DataType, ColumnName and add to DataTable.

column = New DataColumn()

column.DataType = System.Type.GetType("System.Int32")

column.ColumnName = "id"

column.ReadOnly = True

column.Unique = True

' Add the Column to the DataColumnCollection.

table.Columns.Add(column)

' Create second column.

column = New DataColumn()

column.DataType = System.Type.GetType("System.String")

column.ColumnName = "ParentItem"

column.AutoIncrement = False

column.Caption = "ParentItem"

column.ReadOnly = False

column.Unique = False

' Add the column to the table.

table.Columns.Add(column)

' Make the ID column the primary key column.

Dim PrimaryKeyColumns(0) As DataColumn

PrimaryKeyColumns(0)= table.Columns("id")

table.PrimaryKey = PrimaryKeyColumns

' Instantiate the DataSet variable.

dataSet = New DataSet()

' Add the new DataTable to the DataSet.

dataSet.Tables.Add(table)

' Create three new DataRow objects and add them to the DataTable

Dim i As Integer

For i = 0 to 2

row = table.NewRow()

row("id") = i

row("ParentItem") = "ParentItem " + i.ToString()

table.Rows.Add(row)

Next i

End Sub

Private Sub MakeChildTable()

' Create a new DataTable.

Dim table As DataTable = New DataTable("childTable")

Dim column As DataColumn

Dim row As DataRow

' Create first column and add to the DataTable.

column = New DataColumn()

column.DataType= System.Type.GetType("System.Int32")

column.ColumnName = "ChildID"

column.AutoIncrement = True

column.Caption = "ID"

column.ReadOnly = True

column.Unique = True

' Add the column to the DataColumnCollection.

table.Columns.Add(column)

' Create second column.

column = New DataColumn()

column.DataType= System.Type.GetType("System.String")

column.ColumnName = "ChildItem"

column.AutoIncrement = False

column.Caption = "ChildItem"

column.ReadOnly = False

column.Unique = False

table.Columns.Add(column)

' Create third column.

column = New DataColumn()

column.DataType= System.Type.GetType("System.Int32")

column.ColumnName = "ParentID"

column.AutoIncrement = False

column.Caption = "ParentID"

column.ReadOnly = False

column.Unique = False

table.Columns.Add(column)

dataSet.Tables.Add(table)

' Create three sets of DataRow objects, five rows each, and add to DataTable.

Dim i As Integer

For i = 0 to 4

row = table.NewRow()

row("childID") = i

row("ChildItem") = "Item " + i.ToString()

row("ParentID") = 0

table.Rows.Add(row)

Next i

For i = 0 to 4

row = table.NewRow()

row("childID") = i + 5

row("ChildItem") = "Item " + i.ToString()

row("ParentID") = 1

table.Rows.Add(row)

Next i

For i = 0 to 4

row = table.NewRow()

row("childID") = i + 10

row("ChildItem") = "Item " + i.ToString()

row("ParentID") = 2

table.Rows.Add(row)

Next i

End Sub

Private Sub MakeDataRelation()

' DataRelation requires two DataColumn (parent and child) and a name.

Dim parentColumn As DataColumn = \_

dataSet.Tables("ParentTable").Columns("id")

Dim childColumn As DataColumn = \_

dataSet.Tables("ChildTable").Columns("ParentID")

Dim relation As DataRelation = new \_

DataRelation("parent2Child", parentColumn, childColumn)

dataSet.Tables("ChildTable").ParentRelations.Add(relation)

End Sub

Private Sub BindToDataGrid()

' Instruct the DataGrid to bind to the DataSet, ParentTable as the topmost DataTable.

DataGrid1.SetDataBinding(dataSet,"ParentTable")

End Sub