

Option Explicit

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'Demonstration des Zugriffs auf TMI mit Hilfe des TMIObject-Klassenmoduls
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Private Const Adminhost As String = "localhost"
Private Const Servername As String = "local"
Private Const Username As String = "admin"
Private Const Password As String = ""

Private Sub TMItest ()
    Dim TMI As TMIAPI
    Dim Server As TMIserver
    Dim Cube As TMIcube
    Dim ElementB As TMIElement
    Dim ElementC As TMIElement
    Dim Dimensions(1 To 2) As TMIDimension
    Dim Subsets(1 To 2) As TMISubset
    Dim View As TMIView
    Dim Elements As TMIElements
    Dim Value1 As Variant
    Dim Value2 As Variant

    Set TMI = New TMIAPI
    TMI.Adminhost = Adminhost

    'Login to server
    Set Server = TMI.Servers(Servername)
    Server.Login Username, Password

    'Creating two dimensions
    Set Elements = New TMIElements
    Elements.Create "", tMIBaseElement

    Set Dimensions(1) = Server.Dimensions.Create("", Elements)
    Set Elements = Nothing
    Set Elements = New TMIElements
    Set ElementB = Elements.Create("TestElemB", tMIBaseElement)
    Set ElementC = Elements.Create("", tMIConsolidatedElement)

    'Creating TMIAPI-Instance
    'Setting adminhost
    'Setting server

    'Creating new elementcollection
    'Creating new baseelement with a generated
    'name e.g. "TempElem0001"
    'Creating a new dimension
    'using this elementcollection

    'Creating a baseelement using a fix name
    'Creating a new consolidated element
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ElementC.ElementComponents.Create ElementB, tm1ConsolidatedElement 'Cumulating the baseelement
Set ElementC = Nothing
Set ElementB = Nothing
Elements.Create "TestElemS", tm1StringElement
Set Dimensions(2) = Server.Dimensions.Create("", Elements)
Set Elements = Nothing

'Creating a new cube
Set Cube = Server.Cubes.Create("", Dimensions(1).Name, Dimensions(2).Name)

'Writing two cube cell values
Value1 = 12345.67
Cube.CellValue(Dimensions(1).Elements(1).Name, "TestElemB") = Value1
Value2 = "TestString"
Cube.CellValue(Dimensions(1).Elements(1).Name, "TestElemS") = Value2

'Reading a cube cell value
Value1 = Cube.CellValue(Dimensions(1).Elements(1).Name, Dimensions(2).Elements(1).Name)

'Creating one subset per dimension
Set Subsets(1) = Dimensions(1).SubsetsPrivate.Create()
Subsets(1).FillWithAllElements
Set Subsets(2) = Dimensions(2).SubsetsPrivate.Create()
Subsets(2).FillWithAllElements

'Creating a view
Set View = Cube.ViewsPrivate.CreateToLoopByArray("", Subsets())
View.Save

'Calculating the view
View.Calculate

'Reading a view cell value
Value1 = View.CellValue(1, 3)
Value1 = View.CellValue(2, 3)
Value1 = View.CellValue(3, 3)
Debug.Print "Value 1: " + Replace$(CStr(Value1), ",", ".")
Debug.Print "Value 2: " + Replace$(CStr(Value2), ",", ".")
Debug.Print "Value 3: " + Replace$(CStr(Value3), ",", ".")

'Deleting the view
View.Delete

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Set View = Nothing

'Deleting the subsets
Subsets(1).Delete
Set Subsets(1) = Nothing
Subsets(2).Delete
Set Subsets(2) = Nothing

'Deleting the cube
Cube.Delete
Set Cube = Nothing

'Deleting the dimensions
Dimensions(1).Delete
Set Dimensions(1) = Nothing
Dimensions(2).Delete
Set Dimensions(2) = Nothing

'Logging out from server
Server.Logout
Set Server = Nothing

'Cleaning up
Set TM1 = Nothing
End Sub

Private Sub main()
    TM1Test
End Sub
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