```
Module1 - 1

Sub Module2_Challenge()

For Each ws In Worksheets

Dim WorksheetName As String
WorksheetName = ws.Name

Dim Ticker As String
Dim Ticker2 As String
Dim Yearly_Change As Double
Dim Percent_Change As Double
Dim Total_Volume As Variant
Dim Company_Row As Integer
Dim lastRow As Long
Dim maxPercentage As Double
Dim minPercentage As Double
Dim maxValue As Variant


ws.Cells(1, 10).Value = "Ticker"
ws.Cells(1, 11).Value = "Yearly Change"
ws.Cells(1, 12).Value = "Percent Change"
ws.Cells(1, 13).Value = "Total Stock Volume"
ws.Cells(1, 17).Value = "Ticker"
ws.Cells(1, 18).Value = "Value"
ws.Cells(2, 16).Value = "Greatest % Increase"
ws.Cells(3, 16).Value = "Greatest % Decrease"
ws.Cells(4, 16).Value = "Greatest Total Volume"

ws.Range("J1:M1").Columns.AutoFit
ws.Range("P4").Columns.AutoFit
ws.Range("G:G").Columns.AutoFit

lastRow = ws.Cells(Rows.Count, 1).End(xlUp).Row

Company_Row = 2

Total_Volume = 0


For i = 2 To lastRow
    For j = 13 To 13
        ws.Cells(i, j).NumberFormat = "General"
    Next j
Next i


For i = 2 To lastRow

    For j = 11 To 11

        ws.Cells(i, j).NumberFormat = "General"

        If ws.Cells(i, j).Value < 0 Then
            ws.Cells(i, j).Interior.ColorIndex = 3
        Else
            ws.Cells(i, j).Interior.ColorIndex = 4
        End If

    Next j

Next i


For i = 2 To lastRow
    For j = 12 To 12
        ws.Cells(i, j).NumberFormat = "0.00%"
    Next j
Next i


For i = 2 To 3
    For j = 18 To 18
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        ws.Cells(i, j).NumberFormat = "0.00%"
    Next j
Next i

For i = 4 To 4
    For j = 18 To 18
        ws.Cells(i, j).NumberFormat = "General"
    Next j
Next i




For i = 2 To lastRow

        If ws.Cells(i + 1, 1).Value <> ws.Cells(i, 1).Value Then

            Ticker = ws.Cells(i, 1).Value
            Total_Volume = Total_Volume + (ws.Cells(i, 7).Value)
            Yearly_Change = Yearly_Change + ((ws.Cells(i, 6).Value) - (ws.Cells(i, 3).Value))
            Percent_Change = ((ws.Cells(i, 6).Value) - (ws.Cells(i, 3).Value)) / (ws.Cells(i, 3).Value
)

            ws.Range("J" & Company_Row).Value = Ticker
            ws.Range("M" & Company_Row).Value = Total_Volume
            ws.Range("K" & Company_Row).Value = Yearly_Change
            ws.Range("L" & Company_Row).Value = Percent_Change

            Company_Row = Company_Row + 1

            Total_Volume = 0
            Yearly_Change = 0
            Percent_Change = 0


        Else

            Total_Volume = Total_Volume + ws.Cells(i, 7).Value
            Yearly_Change = Yearly_Change + ((ws.Cells(i, 6).Value) - (ws.Cells(i, 3).Value))
            Percent_Change = ((ws.Cells(i, 6).Value) - (ws.Cells(i, 3).Value)) / (ws.Cells(i, 3).Value
)


        End If

Next i


maxPercentage = WorksheetFunction.Max(ws.Range("L:L"))
minPercentage = WorksheetFunction.Min(ws.Range("L:L"))
maxValue = WorksheetFunction.Max(ws.Range("M:M"))

ws.Range("Q1:R4").Columns.AutoFit

ws.Range("R2") = maxPercentage
ws.Range("R3") = minPercentage
ws.Range("R4") = maxValue

For i = 2 To lastRow
    If ws.Cells(i, 12).Value = maxPercentage Then
        ws.Range("Q2") = ws.Cells(i, 10)
    ElseIf ws.Cells(i, 12).Value = minPercentage Then
        ws.Range("Q3") = ws.Cells(i, 10)
    ElseIf ws.Cells(i, 13).Value = maxValue Then
        ws.Range("Q4") = ws.Cells(i, 10)
    End If

Next i



Next ws
```

End Sub

```
RibbonX_Code - 1

Option Explicit

Private Const c_sDialogCommand As String = "fDialog"
Const sResourcePrefix As String = "RES_"
Private Const c_sAddinFolder As String = "Analysis"
Private Const c_sXllName As String = "ANALYS32.XLL"

Private Enum RegistrationTerm
    RegistrationAddIn = 1
    RegistrationFunction = 2
End Enum

'Get Culture
Private Function GetATPUICultureTag() As String
    Dim shTemp As Worksheet
    Dim sCulture As String
    Dim sSheetName As String

    sCulture = Application.International(xlUICultureTag)
    sSheetName = sResourcePrefix + sCulture

    On Error Resume Next
    Set shTemp = ThisWorkbook.Worksheets(sSheetName)
    On Error GoTo 0
    If shTemp Is Nothing Then sCulture = GetFallbackTag(sCulture)

    GetATPUICultureTag = sCulture
End Function

'Entry point for RibbonX button click
Sub ShowATPDialog(control As IRibbonControl)
    Dim funcs As Variant
    funcs = Application.RegisteredFunctions
    If (IsNull(funcs)) Then
        'XLL isn't open or didn't register for some reason
        Exit Sub
    End If

    Dim sPathSep As String
    sPathSep = Application.PathSeparator
    Dim sXllFullName As String
    sXllFullName = Application.LibraryPath & sPathSep & c_sAddinFolder & sPathSep & c_sXllName
    Dim fFoundCommand As Boolean
    fFoundCommand = False
    Dim iFuncNum As Integer
    For iFuncNum = LBound(funcs) To UBound(funcs)
        If (StrComp(funcs(iFuncNum, RegistrationFunction), c_sDialogCommand, vbTextCompare) = 0) Then
            fFoundCommand = StrComp(funcs(iFuncNum, RegistrationAddIn), sXllFullName, vbTextCompare) =
 0
            Exit For
        End If
    Next iFuncNum

    If (Not fFoundCommand) Then
        'Dialog command isn't registered or is registered to the wrong XLL
        Exit Sub
    End If

    Application.Run (c_sDialogCommand)
End Sub

'Callback for RibbonX button label
Sub GetATPLabel(control As IRibbonControl, ByRef label)
    label = ThisWorkbook.Sheets(sResourcePrefix + GetATPUICultureTag()).Range("RibbonCommand").Value
End Sub

'Callback for screentip
Public Sub GetATPScreenTip(control As IRibbonControl, ByRef label)
    label = ThisWorkbook.Sheets(sResourcePrefix + GetATPUICultureTag()).Range("ScreenTip").Value
End Sub

'Callback for Super Tip
Public Sub GetATPSuperTip(control As IRibbonControl, ByRef label)
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    label = ThisWorkbook.Sheets(sResourcePrefix + GetATPUICultureTag()).Range("SuperTip").Value
End Sub

Public Sub GetGroupName(control As IRibbonControl, ByRef label)
    label = ThisWorkbook.Sheets(sResourcePrefix + GetATPUICultureTag()).Range("GroupName").Value
End Sub

'Check for Fallback Languages
Private Function GetFallbackTag(szCulture As String) As String
    'Sorted alphabetically by returned culture tag, then input culture tag
    Select Case (szCulture)
        Case "rm-CH"
            GetFallbackTag = "de-DE"
        Case "ca-ES", "ca-ES-valencia", "eu-ES", "gl-ES"
            GetFallbackTag = "es-ES"
        Case "lb-LU"
            GetFallbackTag = "fr-FR"
        Case "nn-NO"
            GetFallbackTag = "nb-NO"
        Case "be-BY", "ky-KG", "tg-Cyrl-TJ", "tt-RU", "uz-Latn-UZ"
            GetFallbackTag = "ru-RU"
        Case Else
            GetFallbackTag = "en-US"
    End Select
End Function
```