

```
Sub StockAnalysis()
```

```
    ' Loop through all worksheets (years)
```

```
    Dim ws As Worksheet
```

```
    For Each ws In ThisWorkbook.Worksheets
```

```
        ws.Activate
```

```
        ' Set up variables
```

```
        Dim Ticker As String
```

```
        Dim OpenPrice As Double
```

```
        Dim ClosePrice As Double
```

```
        Dim YearlyChange As Double
```

```
        Dim PercentChange As Double
```

```
        Dim TotalVolume As Double
```

```
        Dim LastRow As Long
```

```
        Dim SummaryRow As Long
```

```
        ' Initialize summary table headers
```

```
        SummaryRow = 2
```

```
        ws.Cells(1, 9).Value = "Ticker"
```

```
        ws.Cells(1, 10).Value = "Yearly Change"
```

```
        ws.Cells(1, 11).Value = "Percent Change"
```

```
        ws.Cells(1, 12).Value = "Total Volume"
```

```
        ' Find the last row in the worksheet
```

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

```
        ' Initialize variables for summary calculations
```

```
        TotalVolume = 0
```

```
        OpenPrice = ws.Cells(2, 3).Value
```

```
        ' Loop through rows in the worksheet
```

```
        For i = 2 To LastRow
```

```
            ' Check if the current row's ticker is different from the previous row
```

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

```
                ' Set ticker symbol
```

```
                Ticker = ws.Cells(i, 1).Value
```

```
                ' Set close price
```

```
                ClosePrice = ws.Cells(i, 6).Value
```

```
                ' Calculate yearly change and percent change
```

```
                YearlyChange = Round(ClosePrice - OpenPrice, 2) ' Round to 2 decimal places
```

```
                If OpenPrice <> 0 Then
```

```
                    PercentChange = Round((YearlyChange / OpenPrice) * 100, 2) ' Round to 2 decimal places
```

```
                Else
```

```
                    PercentChange = 0
```

```
                End If
```

```
                ' Add to total volume
```

```
                TotalVolume = TotalVolume + ws.Cells(i, 7).Value
```

```
            ' Populate summary table
```

```
            ws.Cells(SummaryRow, 9).Value = Ticker
```

```
            ws.Cells(SummaryRow, 10).Value = YearlyChange
```

```
            ws.Cells(SummaryRow, 11).Value = PercentChange
```

```
            ws.Cells(SummaryRow, 12).Value = TotalVolume
```

```
            ' Reset variables for next ticker
```

```
            SummaryRow = SummaryRow + 1
```

```
            TotalVolume = 0
```

```
            OpenPrice = ws.Cells(i + 1, 3).Value
```

```
        Else
```

```
            ' Add to total volume
```

```
            TotalVolume = TotalVolume + ws.Cells(i, 7).Value
```

```
        End If
```

```
    Next i
```

```
    ' Find the last row in the summary table
```

```
    LastRow = ws.Cells(Rows.Count, 9).End(xlUp).Row
```

```
    ' Apply conditional formatting for positive and negative changes
```

```
    For i = 2 To LastRow
```

```
        If ws.Cells(i, 10).Value > 0 Then
```

```
            ws.Cells(i, 10).Interior.ColorIndex = 4 ' Green
```

```

        Else
            ws.Cells(i, 10).Interior.ColorIndex = 3 ' Red
        End If
    Next i

    ' Find greatest % increase, % decrease, and total volume
    Dim MaxPercentIncrease As Double
    Dim MaxPercentDecrease As Double
    Dim MaxTotalVolume As Double
    Dim MaxPercentIncreaseTicker As String
    Dim MaxPercentDecreaseTicker As String
    Dim MaxTotalVolumeTicker As String

    MaxPercentIncrease = WorksheetFunction.Max(ws.Range("K2:K" & LastRow))
    MaxPercentDecrease = WorksheetFunction.Min(ws.Range("K2:K" & LastRow))
    MaxTotalVolume = WorksheetFunction.Max(ws.Range("L2:L" & LastRow))

    MaxPercentIncreaseTicker = ws.Cells(Application.Match(MaxPercentIncrease, ws.Range("K2:K" & LastRow), 0) + 1, 9).Value
    MaxPercentDecreaseTicker = ws.Cells(Application.Match(MaxPercentDecrease, ws.Range("K2:K" & LastRow), 0) + 1, 9).Value
    MaxTotalVolumeTicker = ws.Cells(Application.Match(MaxTotalVolume, ws.Range("L2:L" & LastRow), 0) + 1, 9).Value

    ' Populate greatest % increase, % decrease, and total volume
    ws.Cells(2, 15).Value = "Greatest % Increase"
    ws.Cells(3, 15).Value = "Greatest % Decrease"
    ws.Cells(4, 15).Value = "Greatest Total Volume"

    ws.Cells(2, 16).Value = MaxPercentIncreaseTicker
    ws.Cells(3, 16).Value = MaxPercentDecreaseTicker
    ws.Cells(4, 16).Value = MaxTotalVolumeTicker

    ws.Cells(2, 17).Value = MaxPercentIncrease
    ws.Cells(3, 17).Value = MaxPercentDecrease
    ws.Cells(4, 17).Value = MaxTotalVolume
Next ws

End Sub

```