Sub stockanalysis()

Dim LastRow As Long

Dim curTick As String

Dim prevTick As String

Dim yearlyChange As Double

Dim percentChange As Double

Dim totalVolume As Double

Dim yearOpen As Double

Dim yearClose As Double

Dim openValue As Double

Dim closeValue As Double

Dim percentChangeVal As Double

Dim i As Long

Dim reportRow As Long

'set report headers'

For Each ws In ThisWorkbook.Worksheets

ws.Range("I1").Value = "Ticker"

ws.Range("J1").Value = "Yearly Change"

ws.Range("K1").Value = "Percent Change"

ws.Range("L1").Value = "Total Stock Volume"

Next

For Each ws In ThisWorkbook.Worksheets

'Get last row'

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

'initialize variable values'

prevTick = Cells(2, 1)

percentChange = 0

yearlyChange = 0

totalVolume = 0

reportRow = 2

yearOpen = 20190101

yearClose = 0

openValue = 0

closeValue = 0

For i = 2 To LastRow

'get current iteration ticker'

curTick = ws.Cells(i, 1)

'compare with prev ticker'

If curTick <> prevTick Then

'we have a new ticker, report and reset all totals'

ws.Range("I" + CStr(reportRow)).Value = curTick

ws.Range("L" + CStr(reportRow)).Value = totalVolume

'calculate yearly change'

ws.Range("J" + CStr(reportRow)).Value = closeValue - openValue

'conditional formatting cel acording to value'

If (closeValue - openValue) > 0 Then

ws.Range("J" + CStr(reportRow)).Interior.ColorIndex = 4

Else

ws.Range("J" + CStr(reportRow)).Interior.ColorIndex = 3

End If

'calculate yearly percent change'

If closeValue > 0 Then

percentChange = (closeValue - openValue) / closeValue

ws.Range("K" + CStr(reportRow)).Value = percentChange

Else

If openValue = 0 Then

percentChange = 0

Else

percentChange = -1

End If

ws.Range("K" + CStr(reportRow)).Value = percentChange

End If

'reseting counters for next group'

totalVolume = 0

yearOpen = 20190101

yearClose = 0

openValue = 0

closeValue = 0

'incrementing report row for next group'

reportRow = reportRow + 1

Else

'still on same ticker group, keep calculating for this group'

'------------------------------------------------'

'check for smallest date (open)'

If ws.Cells(i, 2).Value < yearOpen Then

yearOpen = ws.Cells(i, 2).Value

openValue = ws.Cells(i, 3).Value

End If

'check for largest date (close)'

If ws.Cells(i, 2).Value > yearClose Then

yearClose = ws.Cells(i, 2).Value

closeValue = ws.Cells(i, 6).Value

End If

'increment total volume for this ticker group'

totalVolume = totalVolume + ws.Cells(i, 7).Value

End If

'set current ticker as prev for next iteration'

prevTick = curTick

Next i

Next

End Sub