Sub StockMarket()

Dim TickerSymbol As String

Dim TotalVolume As LongLong

Dim Jan1\_OpenPrice As Double

Dim Dec30\_ClosePrice As Double

Dim SummaryTableRow As Long

Dim LastRow As Long

Dim YearlyChange As Double

Dim PercentChange As Double

Dim DailyOpenPrice As Double

Dim DailyClosePrice As Double

Dim CalendarDate As Long

Dim GreatestTotal As LongLong

Dim GreatestTotalTicker As String

Dim ws As Worksheet

'Loop through all sheets

For Each ws In Worksheets

TotalVolume = 0

YearlyChange = 0

PercentChange = 0

SummaryTableRow = 2

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

' Print summary table row and column names

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 Stock Volume"

For i = 2 To LastRow

'Check the year

If ws.Cells(2, 2) = 20150101 Then

OpenDate = 20150101

CloseDate = 20151231

ElseIf ws.Cells(2, 2) = 20140101 Then

OpenDate = 20140101

CloseDate = 20141231

ElseIf ws.Cells(2, 2) = 20160101 Then

OpenDate = 20160101

CloseDate = 20161230

End If

'Check if we are still on the same ticker. If not, print new ticker symbol and add to total

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

TickerSymbol = ws.Cells(i, 1).Value

ws.Range("I" & SummaryTableRow).Value = TickerSymbol

'Add volume to the running total & print total in the summary table

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

ws.Range("L" & SummaryTableRow).Value = TotalVolume

'Save daily open and close price from column 3 and column 6

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

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

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

'If date equals to closing date (Dec 30 or Dec 31) during iteration, save closing price from column 6 "<close>" inside Dec30\_ClosePrice variable

If CalendarDate = CloseDate Then

Dec30\_ClosePrice = ws.Cells(i, 6).Value

'Calculate & print yearly change

YearlyChange = (Dec30\_ClosePrice + 1) - (Jan1\_OpenPrice + 1)

ws.Range("J" & SummaryTableRow).Value = YearlyChange

'Calculate & print percent change

PercentChange = YearlyChange / (Jan1\_OpenPrice + 1)

ws.Range("K" & SummaryTableRow).Value = PercentChange

ws.Range("K" & SummaryTableRow).Style = "Percent"

End If

If PercentChange >= 0 Then

ws.Range("K" & SummaryTableRow).Interior.ColorIndex = 4

Else

ws.Range("K" & SummaryTableRow).Interior.ColorIndex = 3

End If

'Add one to the summary table row & reset total volume to prepare for next entry

SummaryTableRow = SummaryTableRow + 1

TotalVolume = 0

Else

'Add volume to the running total

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

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

'If date equals to opening date (Jan 1) during iteration, save opening price from column 3 "<open>" inside Jan1\_OpenPrice variable

If CalendarDate = OpenDate Then

Jan1\_OpenPrice = ws.Cells(i, 3).Value

End If

End If

Next i

'Print new summary table row and column names

ws.Cells(2, 14).Value = "Greatest % Increase"

ws.Cells(3, 14).Value = "Greatest % Decrease"

ws.Cells(4, 14).Value = "Greatest Total Volume"

ws.Cells(1, 15).Value = "Ticker"

ws.Cells(1, 16).Value = "Value"

'Loop through all rows in column K to find the greatest % increase and save ticker name in MaxValueTicker

MaxValue = ws.Cells(2, 11).Value

MaxValueTicker = ws.Cells(2, 9).Value

For j = 2 To LastRow

If Cells(j, 11).Value > MaxValue Then

MaxValue = ws.Cells(j, 11).Value

MaxValueTicker = ws.Cells(j, 9).Value

End If

Next j

'Print greatest % increase results

ws.Cells(2, 16).Value = MaxValue

ws.Cells(2, 16).Style = "Percent"

ws.Cells(2, 15).Value = MaxValueTicker

'Loop through all rows in column K to find the greatest % decrease and save ticker name in MinValueTicker

MinValue = ws.Cells(2, 11).Value

MinValueTicker = ws.Cells(2, 9).Value

For j = 2 To LastRow

If ws.Cells(j, 11).Value < MinValue Then

MinValue = ws.Cells(j, 11).Value

MinValueTicker = ws.Cells(j, 9).Value

End If

Next j

'Print greatest % decrease results

ws.Cells(3, 16).Value = MinValue

ws.Cells(3, 16).Style = "Percent"

ws.Cells(3, 15).Value = MinValueTicker

'Loop through all rows in column K to find the greatest total volume and save ticker name in GreatestTotalTicker

GreatestTotal = ws.Cells(2, 12).Value

GreatestTotalTicker = ws.Cells(2, 9).Value

For j = 2 To LastRow

If ws.Cells(j, 12).Value > GreatestTotal Then

GreatestTotal = ws.Cells(j, 12).Value

GreatestTotalTicker = ws.Cells(j, 9).Value

End If

Next j

'Print greatest total results

ws.Cells(4, 16).Value = GreatestTotal

ws.Cells(4, 15).Value = GreatestTotalTicker

'Autofit columns N to display data

ws.Columns("N").AutoFit

ws.Columns("P").AutoFit

Next ws

End Sub