**February 2, 2019**

**Cynthia Huallanca**

**Unit 2 | Assignment - The VBA of Wall Street**

Sub Moderate()

'For Each ws In Worksheets

'Setting the value type

Dim Lastrow As Double

Dim Tickername As String

Dim Tivolume As Double

Dim Yearly\_change As Double

Dim Percent\_Yearly\_change As Double

Dim Ticker\_open\_price As Double

Dim Ticker\_close\_price As Double

Dim x As Integer

'Adding headers and formats

Cells(1, 9).Value = "Ticker Type"

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

Cells(1, 11).Value = "Percentage of Change"

Cells(1, 12).Value = "Ticker Volume"

Range("A1:Z1").Font.Bold = True

'To make the next codes to recognize the last row so it's no necessary add it manually. This will optimize the complete code, so you can run it in all tabs despite of the row count

Lastrow = Cells(Rows.Count, "A").End(xlUp).Row

'Setting some starting points to the variables

Ticker\_total\_volume = 0

x = 2 'for summary

'--------------------YEARLY CHANGE AND PERCENTAGE OF CHANGE-----------------------------------

'Loop from row 2 to lastrow

For i = 2 To Lastrow

'To obtain the open price of each ticker, assuming that all tickers are sorted toguether (each type is next to the next one in the row) and that the dates are ordered from the oldest to the newest

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

Ticker\_open\_price = Cells(i, 3).Value

End If

'To obtain the close price of each ticker, assuming that all tickers are sorted toguether (each type is next to the next one in the row) and that the dates are ordered from the oldest to the newest

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

Ticker\_close\_price = Cells(i, 6).Value

Yearly\_change = Ticker\_close\_price - Ticker\_open\_price

'Nested if to avoid an error when calculating the percent change if the open value is cero

If Ticker\_open\_price = 0 Then

Percent\_Yearly\_change = 100

Else

Percent\_Yearly\_change = Yearly\_change / Ticker\_open\_price

End If

'Storing the values in the correct cell

Tickername = Cells(i, 1).Value

Cells(x, 9).Value = Tickername

Cells(x, 10).Value = Yearly\_change

Cells(x, 11).Value = Percent\_Yearly\_change

'Adding format

Cells(x, 11).NumberFormat = "0.00%"

'To write in a new row each value

x = x + 1

End If

Next i

'--------------------TOTAL VOLUME OF EACH TICKER-----------------------------------

x = 2

'Loop from row 2 to lastrow

For i = 3 To Lastrow

'To obtain ticker total volume

If Cells(i - 1, 1).Value = Cells(i, 1).Value Then

Tivolume = Tivolume + Cells(i, 7).Value

Else

Cells(x, 12).Value = Tivolume

Cells(x, 12).Style = "Currency"

'To write in a new row each value

x = x + 1

Tivolume = Cells(i, 7).Value

End If

Next i

'--------------------CONDITIONAL FORMATTING FOR YEARLY CHANGE-----------------------------------

'Loop from row 2 to lastrow

For i = 2 To Lastrow

'To color the interior of the cell only if has value in it

If IsEmpty(Cells(i, 10)) = False Then

'Nested if to add a green color if the value on the cell is positive, or red if it's a negative change

If Cells(i, 10) > 0 Then

Cells(i, 10).Interior.ColorIndex = 4

Else

Cells(i, 10).Interior.ColorIndex = 3

End If

End If

Next i

End Sub