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| ' Unit 2 | Assignment - The VBA of Wall Street |
|  | Sub StockMarketAnalysis(): |
|  |  |
|  | ' Loop / Iterate Through All Worksheets |
|  | For Each ws In Worksheets |
|  |  |
|  | ' Column Headers / Data Field Labels |
|  | ws.Range("I1").Value = "Ticker" |
|  | ws.Range("J1").Value = "Yearly Change" |
|  | ws.Range("K1").Value = "Percent Change" |
|  | ws.Range("L1").Value = "Total Stock Volume" |
|  | ws.Range("O2").Value = "Greatest % Increase" |
|  | ws.Range("O3").Value = "Greatest % Decrease" |
|  | ws.Range("O4").Value = "Greatest Total Volume" |
|  | ws.Range("P1").Value = "Ticker" |
|  | ws.Range("Q1").Value = "Value" |
|  |  |
|  | ' Set/Declare Initial Variables And Set Default/Baseline Variables |
|  | Dim TickerName As String |
|  | Dim LastRow As Long |
|  | Dim TotalTickerVolume As Double |
|  | TotalTickerVolume = 0 |
|  | Dim SummaryTableRow As Long |
|  | SummaryTableRow = 2 |
|  | Dim YearlyOpen As Double |
|  | Dim YearlyClose As Double |
|  | Dim YearlyChange As Double |
|  | Dim PreviousAmount As Long |
|  | PreviousAmount = 2 |
|  | Dim PercentChange As Double |
|  | Dim GreatestIncrease As Double |
|  | GreatestIncrease = 0 |
|  | Dim GreatestDecrease As Double |
|  | GreatestDecrease = 0 |
|  | Dim LastRowValue As Long |
|  | Dim GreatestTotalVolume As Double |
|  | GreatestTotalVolume = 0 |
|  |  |
|  | ' Determine the Last Row |
|  | LastRow = ws.Cells(Rows.Count, 1).End(xlUp).Row |
|  |  |
|  | For i = 2 To LastRow |
|  |  |
|  | ' Add To Ticker Total Volume |
|  | TotalTickerVolume = TotalTickerVolume + ws.Cells(i, 7).Value |
|  | ' Check If We Are Still Within The Same Ticker Name If It Is Not... |
|  | If ws.Cells(i + 1, 1).Value <> ws.Cells(i, 1).Value Then |
|  |  |
|  | ' ### Easy ### |
|  |  |
|  | ' Set Ticker Name |
|  | TickerName = ws.Cells(i, 1).Value |
|  | ' Print The Ticker Name In The Summary Table |
|  | ws.Range("I" & SummaryTableRow).Value = TickerName |
|  | ' Print The Ticker Total Amount To The Summary Table |
|  | ws.Range("L" & SummaryTableRow).Value = TotalTickerVolume |
|  | ' Reset Ticker Total |
|  | TotalTickerVolume = 0 |
|  |  |
|  | ' ### Moderate ### |
|  |  |
|  | ' Set Yearly Open, Yearly Close and Yearly Change Name |
|  | YearlyOpen = ws.Range("C" & PreviousAmount) |
|  | YearlyClose = ws.Range("F" & i) |
|  | YearlyChange = YearlyClose - YearlyOpen |
|  | ws.Range("J" & SummaryTableRow).Value = YearlyChange |
|  |  |
|  | ' Determine Percent Change |
|  | If YearlyOpen = 0 Then |
|  | PercentChange = 0 |
|  | Else |
|  | YearlyOpen = ws.Range("C" & PreviousAmount) |
|  | PercentChange = YearlyChange / YearlyOpen |
|  | End If |
|  | ' Format Double To Include % Symbol And Two Decimal Places |
|  | ws.Range("K" & SummaryTableRow).NumberFormat = "0.00%" |
|  | ws.Range("K" & SummaryTableRow).Value = PercentChange |
|  |  |
|  | ' Conditional Formatting Highlight Positive (Green) / Negative (Red) |
|  | If ws.Range("J" & SummaryTableRow).Value >= 0 Then |
|  | ws.Range("J" & SummaryTableRow).Interior.ColorIndex = 4 |
|  | Else |
|  | ws.Range("J" & SummaryTableRow).Interior.ColorIndex = 3 |
|  | End If |
|  |  |
|  | ' Add One To The Summary Table Row |
|  | SummaryTableRow = SummaryTableRow + 1 |
|  | PreviousAmount = i + 1 |
|  | End If |
|  | Next i |
|  |  |
|  | ' ### Hard ### |
|  |  |
|  | ' Greatest % Increase, Greatest % Decrease and Greatest Total Volume |
|  | LastRow = ws.Cells(Rows.Count, 11).End(xlUp).Row |
|  |  |
|  | ' Start Loop For Final Results |
|  | For i = 2 To LastRow |
|  | If ws.Range("K" & i).Value > ws.Range("Q2").Value Then |
|  | ws.Range("Q2").Value = ws.Range("K" & i).Value |
|  | ws.Range("P2").Value = ws.Range("I" & i).Value |
|  | End If |
|  |  |
|  | If ws.Range("K" & i).Value < ws.Range("Q3").Value Then |
|  | ws.Range("Q3").Value = ws.Range("K" & i).Value |
|  | ws.Range("P3").Value = ws.Range("I" & i).Value |
|  | End If |
|  |  |
|  | If ws.Range("L" & i).Value > ws.Range("Q4").Value Then |
|  | ws.Range("Q4").Value = ws.Range("L" & i).Value |
|  | ws.Range("P4").Value = ws.Range("I" & i).Value |
|  | End If |
|  |  |
|  | Next i |
|  | ' Format Double To Include % Symbol And Two Decimal Places |
|  | ws.Range("Q2").NumberFormat = "0.00%" |
|  | ws.Range("Q3").NumberFormat = "0.00%" |
|  |  |
|  | ' Format Table Columns To Auto Fit |
|  | ws.Columns("I:Q").AutoFit |
|  |  |
|  | Next ws |
|  |  |
|  | End Sub |