Sub ExtractAndOrganizeData()

Dim wbSource As Workbook

Dim wsSource As Worksheet

Dim wsNew As Worksheet

Dim lastRow As Long

Dim companyName As String

Dim dateFilter As String

Dim yearFolder As String

Dim monthFile As String

Dim savePath As String

Dim mainFolder As String

Dim dict As Object

Dim key As Variant

Dim i As Long

Dim cell As Range

Dim rng As Range

Dim filteredData As Variant

Dim outputRow As Long

Dim year As String

Dim month As String

Dim monthName As String

' Disable screen updating and alerts to run in background

Application.ScreenUpdating = False

Application.DisplayAlerts = False

Application.EnableEvents = False

Application.Calculation = xlCalculationManual

On Error GoTo ErrorHandler ' Enable error handling

' Open the Schedule.xlsx file from the Desktop

Set wbSource = Workbooks.Open(Environ("USERPROFILE") & "\Desktop\Schedule.xlsx")

Set wsSource = wbSource.Sheets("Sheet1") ' Replace "Sheet1" with the correct worksheet name

companyName = "QUEEN VICTORIA GUEST HOUSE"

' Create a dictionary to store unique year-month combinations

Set dict = CreateObject("Scripting.Dictionary")

' Find the last row in the source worksheet

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

' Removed MsgBox for background operation - will show final message only

' Check if there is any data (excluding header row)

If lastRow <= 1 Then

GoTo NoDataError

End If

' Loop through the data to filter and organize (start from Row 2)

For Each cell In wsSource.Range("A2:A" & lastRow)

' Use Trim and UCase to standardize comparison

If Trim(UCase(cell.Value)) = UCase(companyName) Then

dateFilter = wsSource.Cells(cell.Row, "B").Value ' Get the YYYYMM value

If Not dict.exists(dateFilter) Then

dict.Add dateFilter, cell.Row

End If

End If

Next cell

' Check if any data was found

If dict.Count = 0 Then

GoTo NoCompanyDataError

End If

' Create the main folder inside the "New" folder on Desktop

mainFolder = Environ("USERPROFILE") & "\Desktop\New\QUEEN VICTORIA GUEST HOUSE"

' Check if "New" folder exists, create if it doesn't

If Dir(Environ("USERPROFILE") & "\Desktop\New", vbDirectory) = "" Then

MkDir Environ("USERPROFILE") & "\Desktop\New"

End If

' Create the QUEEN VICTORIA GUEST HOUSE folder

If Dir(mainFolder, vbDirectory) = "" Then

MkDir mainFolder

End If

' Loop through each year-month in the dictionary

For Each key In dict.keys

year = Left(key, 4) ' Extract year (first 4 characters)

month = Right(key, 2) ' Extract month (last 2 characters)

' Convert month number to month name (e.g., "01" -> "jan")

monthName = LCase(Format(DateSerial(year, month, 1), "mmm"))

' Create year folder

yearFolder = mainFolder & "\" & year

If Dir(yearFolder, vbDirectory) = "" Then

MkDir yearFolder

End If

' Create a new workbook for the month

Set wsNew = Workbooks.Add.Sheets(1)

wsNew.Name = "Data"

' Add headers

wsNew.Cells(1, 1).Value = "ssnit"

wsNew.Cells(1, 2).Value = "name"

wsNew.Cells(1, 3).Value = "salary"

' Filter and copy data

outputRow = 2

For Each cell In wsSource.Range("A2:A" & lastRow)

If Trim(UCase(cell.Value)) = UCase(companyName) And wsSource.Cells(cell.Row, "B").Value = key Then

wsNew.Cells(outputRow, 1).Value = wsSource.Cells(cell.Row, "I").Value ' SSNIT

wsNew.Cells(outputRow, 2).Value = wsSource.Cells(cell.Row, "F").Value ' Name

wsNew.Cells(outputRow, 3).Value = wsSource.Cells(cell.Row, "L").Value ' Salary

outputRow = outputRow + 1

End If

Next cell

' Save the new workbook

monthFile = yearFolder & "\" & monthName & year & ".xlsx"

wsNew.Parent.SaveAs Filename:=monthFile, FileFormat:=xlOpenXMLWorkbook

wsNew.Parent.Close SaveChanges:=False

Next key

' Close the source workbook

wbSource.Close SaveChanges:=False

' Re-enable Excel settings

Application.ScreenUpdating = True

Application.DisplayAlerts = True

Application.EnableEvents = True

Application.Calculation = xlCalculationAutomatic

' Final completion message

MsgBox "✅ PROCESS COMPLETED SUCCESSFULLY!" & vbCrLf & vbCrLf & \_

"📊 Data extraction and organization finished!" & vbCrLf & \_

"📁 Files saved to: " & mainFolder & vbCrLf & vbCrLf & \_

"📈 Total periods processed: " & dict.Count, vbInformation, "Background Process Complete"

Exit Sub

NoDataError:

' Re-enable Excel settings before showing error

Application.ScreenUpdating = True

Application.DisplayAlerts = True

Application.EnableEvents = True

Application.Calculation = xlCalculationAutomatic

MsgBox "❌ ERROR: No data found in the worksheet!" & vbCrLf & \_

"Please check if the Schedule.xlsx file contains data.", vbExclamation, "No Data Found"

Exit Sub

NoCompanyDataError:

' Re-enable Excel settings before showing error

Application.ScreenUpdating = True

Application.DisplayAlerts = True

Application.EnableEvents = True

Application.Calculation = xlCalculationAutomatic

MsgBox "❌ ERROR: No data found for company: " & companyName & vbCrLf & \_

"Please verify the company name exists in the data.", vbExclamation, "Company Not Found"

Exit Sub

ErrorHandler:

' Re-enable Excel settings in case of error

Application.ScreenUpdating = True

Application.DisplayAlerts = True

Application.EnableEvents = True

Application.Calculation = xlCalculationAutomatic

' Close any open workbooks if error occurred

If Not wbSource Is Nothing Then

wbSource.Close SaveChanges:=False

End If

MsgBox "❌ PROCESS INTERRUPTED!" & vbCrLf & vbCrLf & \_

"Error Details: " & Err.Description & vbCrLf & vbCrLf & \_

"💡 Suggestions:" & vbCrLf & \_

"• Check if Schedule.xlsx exists on Desktop" & vbCrLf & \_

"• Verify worksheet name is correct" & vbCrLf & \_

"• Ensure data format is valid" & vbCrLf & \_

"• Close any open Excel files and try again", vbCritical, "Background Process Error"

End Sub