

1) Functions to find the address of a column by name:

```
Function Find_Col(sheet_name As String, Col_Name As String) As Range

    Sheets(sheet_name).Select
    Dim xRgUni As Range
    Dim xFirstAddress As String
    Dim xStr As String
    On Error Resume Next
    xStr = Col_Name
    Set Find_Col = Range("A1:DDD1").Find(xStr, , xlValues, xlWhole, , , True)
    If Not Find_Col Is Nothing Then
        xFirstAddress = Find_Col.Address
        Do
            Set Find_Col = Range("A1:DDD1").FindNext(Find_Col)
            If xRgUni Is Nothing Then
                Set xRgUni = Find_Col
            Else
                Set xRgUni = Application.Union(xRgUni, Find_Col)
            End If
        Loop While (Not Find_Col Is Nothing) And (Find_Col.Address <> xFirstAddress)
    End If

End Function
```

2) Function that will return the column letter of a column:

```
Function Alpha_Column(Cell_Add As Range) As String
    Dim No_of_Rows As Integer
    Dim No_of_Cols As Integer
    Dim Num_Column As Integer
    No_of_Rows = Cell_Add.Rows.count
    No_of_Cols = Cell_Add.Columns.count
    If ((No_of_Rows <> 1) Or (No_of_Cols <> 1)) Then
        Alpha_Column = ""
        Exit Function
    End If
    Num_Column = Cell_Add.Column
    If Num_Column < 26 Then
        Alpha_Column = Chr(64 + Num_Column)
```

Else

Alpha_Column = Chr(Int(Num_Column / 26) + 64) & Chr((Num_Column Mod 26) + 64)

End If

End Function

3) Function for copy and paste columns (useful for filling in data for template):

Function Copy_Col_Pay(sheet_name As String, temp As String)

'Paste Name

Sheets(sheet_name).Select

Range("A2").Select

Range(Selection, Selection.End(xlDown)).Select

Selection.Copy

Sheets(temp).Select

Range("A2").Select

ActiveSheet.Paste

End Function

4) Function for checking if cell content include duplicate words

Function IsDuplicates(rng As Range) As String

Dim StringtoAnalyze As Variant

Dim i As Integer

Dim j As Integer

Const minWordLen As Integer = 4

StringtoAnalyze = Split(UCase(rng.Value), " ")

For i = UBound(StringtoAnalyze) To 0 Step -1

If Len(StringtoAnalyze(i)) < minWordLen Then GoTo SkipA

For j = 0 To i - 1

If StringtoAnalyze(j) = StringtoAnalyze(i) Then

IsDuplicates = "TRUE"

GoTo SkipB

End If

```

Next j
SkipA:
Next i
IsDuplicates = "FALSE"
SkipB:
End Function

```

5) Function that return words that are duplicate in a range:

```

Function DuplicatedWords(rng As Range, Optional CaseSensitive As Boolean) As Variant
    Dim X As Long, WordCount As Long, List As String, Duplicates As Variant, Words() As String
    List = WorksheetFunction.Trim(Replace(Join(WorksheetFunction.Transpose(rng)), Chr(160), " "))
    Words = Split(List)
    For X = 0 To UBound(Words)
        If CaseSensitive Then
            If UBound(Split(" " & List & " ", " " & Words(X) & " ")) > 1 Then
                Duplicates = Duplicates & Words(X) & " "
                List = Replace(List, Words(X), "", 1, -1, vbBinaryCompare)
            End If
        Else
            If UBound(Split(" " & UCase(List) & " ", " " & UCase(Words(X)) & " ")) > 1 Then
                Duplicates = Duplicates & StrConv(Words(X), vbProperCase) & " "
                List = Replace(List, Words(X), "", 1, -1, vbTextCompare)
            End If
        End If
    Next X
    Duplicates = WorksheetFunction.Trim(Duplicates)
    Words = Split(Duplicates)
    If Application.Caller.count > UBound(Words) Then
        Duplicates = Duplicates & space(Application.Caller.count - UBound(Words))
    End If
    DuplicatedWords = WorksheetFunction.Transpose(Split(Duplicates))
End Function

```

6) Sub for formatting data in a certain format:

```

Sub Intial_setup()

```

```
ThisWorkbook.Save  
Cells.Select
```

```
Application.ScreenUpdating = False  
Application.Calculation = xlCalculationManual  
Application.EnableEvents = False
```

```
If ActiveSheet.AutoFilterMode Then ActiveSheet.AutoFilterMode = False
```

```
With Selection.Font  
    .Name = "Calibri"  
    .Size = 11  
    .Strikethrough = False  
    .Superscript = False  
    .Subscript = False  
    .OutlineFont = False  
    .Shadow = False  
    .Underline = xlUnderlineStyleNone  
    .TintAndShade = 0  
    .ThemeFont = xlThemeFontMinor  
    .Color = vbBlack  
    .Bold = False  
    .Italic = False  
End With
```

```
With Selection  
    .WrapText = False  
    .VerticalAlignment = xlCenter  
    .HorizontalAlignment = xlCenter  
    .Orientation = 0  
    .AddIndent = False  
    .IndentLevel = 0  
    .ShrinkToFit = False  
    .ReadingOrder = xlContext  
    .MergeCells = False  
End With
```

'Change sheet fill color based on name

```
With Selection  
    Dim ws1 As Worksheet  
    Dim Rng5 As Range  
    Set Rng5 = ActiveSheet.UsedRange  
    With ActiveSheet
```

```

For Each ws1 In ActiveWorkbook.Worksheets
    If ActiveSheet.Name = "Applicants" Then
        Rng5.Interior.ColorIndex = 37
        ActiveSheet.Tab.ColorIndex = 37
    ElseIf ActiveSheet.Name = "New Hires" Then
        Rng5.Interior.ColorIndex = 40
        ActiveSheet.Tab.ColorIndex = 40
    Else
        Rng5.Interior.ColorIndex = 0
    End If
Next ws1
End With

```

End With

'Add border

```

With Selection
    Dim Rng7 As Range
    Set Rng7 = ActiveSheet.UsedRange
    For Each Cell In Rng7
        Cell.BorderAround _
            LineStyle:=xlContinuous, _
            Weight:=xlThin
    Next Cell
End With

```

,

' Change the first row color

```

With Selection
    Dim Rng6 As Range
    Set Rng6 = ActiveSheet.UsedRange.Rows(1)
    Rng6.Interior.ColorIndex = 27
    Rng6.Font.Bold = True
End With

```

,

'Unhide,Unfreeze

```

Cells.EntireRow.Hidden = False
Cells.EntireColumn.Hidden = False
ActiveWindow.FreezePanels = False

```

,

' Auto fit

```

Selection.EntireColumn.AutoFit
Selection.EntireRow.AutoFit

```

Application.EnableEvents = True

```
Application.Calculation = xlCalculationAutomatic
Application.ScreenUpdating = True
```

```
End Sub
```

7) Sub for remove blank row and columns:

```
Sub remove_blank()
```

```
    ThisWorkbook.Save
```

```
    Application.ScreenUpdating = False
    Application.Calculation = xlCalculationManual
    Application.EnableEvents = False
```

```
    If ActiveSheet.AutoFilterMode Then ActiveSheet.AutoFilterMode = False
```

```
    'Delete blank row
```

```
        Dim LastRowIndex As Integer
        Dim RowIndex As Integer
        Dim UsedRng As Range
```

```
        On Error Resume Next
        Set UsedRng = ActiveSheet.UsedRange
        LastRowIndex = UsedRng.Row - 1 + UsedRng.Rows.count
```

```
        For RowIndex = LastRowIndex To 1 Step -1
            If Application.CountA(Rows(RowIndex)) = 0 Then
                Rows(RowIndex).Delete
            End If
        Next RowIndex
```

```
    ,
    ,
```

```
    'Delete Blank column
```

```
        Dim iCntr
        Dim RnG2 As Range
        Set RnG2 = ActiveSheet.UsedRange
        For iCntr = RnG2.Column + RnG2.Columns.count - 1 To RnG2.Column Step -1
            If Application.WorksheetFunction.CountA(Columns(iCntr)) = 0 Then
                Columns(iCntr).EntireColumn.Delete
            Next
```

```
Application.EnableEvents = True  
Application.Calculation = xlCalculationAutomatic  
Application.ScreenUpdating = True
```

```
End Sub
```