|  |  |  |  |
| --- | --- | --- | --- |
| Projektebene | Kosten vorher | Kosten nachher soll | Kosten nachher ist |
| PI | 11 | 0 | 0 |
| TK | 1 | 1 |  |
| WS | 1 | 1 | 1 |
| WS | 3 | 0 | 0 |
| TK | 1 | 1 |  |
| TK | 1 | 1 |  |
| TK | 1 | 1 |  |
| WS | 1 | 1 | 1 |
| WS | 1 | 1 | 1 |
| WS | 1 | 0 | 0 |
| TK | 1 | 1 |  |
| WS | 3 | 0 | 0 |
| TK | 1 | 1 |  |
| TK | 1 | 1 |  |
| TK | 1 | 1 |  |
| PI | 20 | 5 | 5 |
| TK | 1 | 1 |  |
| WS | 1 | 1 | 1 |
| WS | 3 | 0 | 0 |
| TK | 1 | 1 |  |
| TK | 1 | 1 |  |
| TK | 1 | 1 |  |
| WS | 1 | 1 | 1 |
| WS | 0 | 0 | 0 |
| WS | 4 | 3 | 3 |
| TK | 1 | 1 |  |
| WS | 5 | 2 | 2 |
| TK | 1 | 1 |  |
| TK | 1 | 1 |  |
| TK | 1 | 1 |  |

Sub S1()

Dim i, PI1, WS, PosPI1, SumTK, PosWS, SumWS, TotalWS As Integer

Range(Cells(2, 4), Cells(100, 4)).Select: Selection.ClearContents

x = 2: y = 4

i = 2

Do Until Cells(i, 1) = ""

If Cells(i, 1) = "PI" Then

SumWS = 0

PosWS = 0

PI1 = Cells(i, x)

PosPI1 = i

ElseIf Cells(i, 1) = "WS" Then

WS1 = 0

WS = Cells(i, x)

PosWS = i

a = i + 1 'Wird nicht gebraucht!!!!

If Cells(i + 1, 1) <> "TK" Then 'Eingefügt, Fall wenn WK ohne TK

SumWS = SumWS + WS

End If

ElseIf Cells(i, 1) = "TK" Then

a = i

Do Until Cells(a, 1) <> "TK"

SumTK = SumTK + Cells(a, x)

'WS = SumTK 'Fehler!!!!

a = a + 1

i = a - 1

Loop

If PosWS > 0 Then 'eingefügt, Fall wo Kosten auf WS

WS1 = WS - SumTK

End If

Else 'eingefügt wegen error handling!!!!

Stop

End If 'Fehler, von unten raufgenommen!!!!

If PosWS > 0 Then 'Fall TK nicht direkt unter PI

Cells(PosWS, y) = WS - SumTK

End If

SumWS = SumWS + SumTK + WS1

If PosWS = 0 Then 'Fall TK direkt unter PI

Cells(PosPI1, y) = WS - SumTK 'Fehler, wird mit nächster Zeile unbenutzt wieder überschrieben!!!!

End If

Cells(PosPI1, y) = PI1 - SumWS

If SumWS > PI1 Then 'Dieser Fall sollte nie eintreffen!!!!

Cells(PosPI1, y) = PI1 - SumWS

End If

SumTK = 0

'End If 'Fehler, oben eingefügt!!!!

i = i + 1

Loop

End Sub

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Key | Attribut |  | Key | Attribut |
| 7 | a |  | 7 | a |
| 9 |  |  | 14 | b |
| 14 | b |  | 28 | c |
| 28 | c |  | 31 | d |
| 31 | d |  | 33 | e |
| 45 |  |  | 54 | f |
| 54 | f |  | 98 | g |
| 98 | g |  | 234 | h |
| 112 |  |  | 305 | i |
| 234 | h |  |  |  |
| 301 |  |  |  |  |
| 305 | i |  |  |  |

Sub S2()

Dim Key As Range

Dim wks As Worksheet: Set wks = Sheets("Tabelle2")

RowSize = IIf(IsEmpty(wks.Range("A1000")), wks.Range("A1000").End(xlUp).Row, 1000)

wks.Range(Cells(2, 2), Cells(RowSize, 2)).ClearContents

For Each Key In wks.Range(Cells(2, 1), Cells(RowSize, 1))

If Not wks.Columns("D:D").Find(What:=Key, LookAt:=xlWhole) Is Nothing Then

Key.Offset(0, 1).Value = wks.Columns("D:D").Find(What:=Key, LookAt:=xlWhole).Offset(0, 1).Value

End If

Next Key

End Sub

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Key | Attribut 1 | Attribut 2 | Attribut 3 | Attribut 4 |
| 7 | a | 1 | p | cd |
| 9 |  | 2 | r | sc |
| 14 | b | 0 | d | sc |
| 28 | c | 1 | d | cd |
| 31 | d | 0 | d | cd |
| 45 |  | 0 | d | cd |
| 54 | f | 1 | p | cd |
| 98 | g | 2 | p | cd |
| 112 |  | 1 | d | sd |
| 234 | h | 0 | r | cd |
| 301 |  | 0 | r | cd |
| 305 | i | 1 | r | cd |

Sub S3()

Sheets("Tabelle3").Activate

Rows(1).Select

Selection.RowHeight = 35

Rows("2:3").Select

Selection.RowHeight = 25

Range(Cells(1, 1), Cells(1, 5)).Select

Selection.BorderAround ColorIndex:=1, Weight:=xlThick

Selection.Interior.ColorIndex = 30

Selection.Font.Name = "Arial"

Selection.Font.Bold = True

Selection.Font.Color = RGB(20, 255, 80)

Range(Cells(2, 1), Cells(3, 5)).Select

Selection.BorderAround ColorIndex:=1, Weight:=xlThick

Selection.Interior.ColorIndex = 4

Selection.Font.ColorIndex = 31

Range(Cells(1, 1), Cells(13, 5)).Select

Selection.Borders(11).Weight = xlThin

Selection.Borders(12).Weight = xlThin

Selection.BorderAround Weight:=xlThick

Selection.HorizontalAlignment = xlCenter

Selection.VerticalAlignment = xlBottom

Columns("A:E").Select

Selection.EntireColumn.AutoFit

Range("C14").Select

ActiveCell.FormulaR1C1 = "=SUM(R[-12]C:R[-1]C)"

Selection.NumberFormat = "#,##0.0"

Selection.ClearContents

Range("E14").Select

ActiveCell.FormulaR1C1 = "=COUNT(RC[-2]:RC[-1])"

Selection.NumberFormat = "#,##0.0"

Selection.ClearContents

Cells.Select

'Selection.Delete Shift:=xlUp

'Selection.ClearContents

Selection.ClearFormats

Selection.RowHeight = 15

Selection.ColumnWidth = 10.71

Cells(1, 1).Select

End Sub

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Anna,Peter,Karl,Alfred,Wilfrid,Armin | Anna | Peter | Karl | Alfred | Wilfrid | Armin |
|  | Anna | Peter | Karl | Alfred | Wilfrid | Armin |

Sub S4()

Sheets("Tabelle4").Activate

Cells(1, 1).Select

Selection.Replace What:=" ", Replacement:="", LookAt:=xlPart

Selection.TextToColumns \_

Destination:=Cells(1, 2), \_

DataType:=xlDelimited, \_

ConsecutiveDelimiter:=True, \_

Comma:=True

Dim MyArray() As String

Dim j: j = 2

MyArray = Split(Cells(1, 1), ",")

For Each i In MyArray

Cells(2, j) = i: j = j + 1

Next i

Range(Cells(1, 2), Cells(2, 50)).Select

Selection.ClearContents

End Sub

|  |  |  |
| --- | --- | --- |
| Wert 1 | Wert 2 | Wert 3 |
| 12 | 465 | 654 |
| 45 | 56 | 894 |
| 4 | 56 | 894 |
| 65 | 6 | 615 |
| 54 | 6 | 615 |
| 498 | 64 | 165 |
| 6464 | 64 | 165 |
| 4 | 5689 | 8941 |
| 4 | 5689 | 8941 |
| 5 | 654 | 106 |
| 564554 | 654 | 106 |
| 64 | 89 | 98 |
| 6 | 89 | 98 |
| 46 | 641 | 30165 |
| 645 | 641 | 30165 |
| 46 | 1 | 65 |
| 65 | 1 | 65 |
| 465 | 481 | 16 |
| 465 | 481 | 16 |
| 4 | 7681 | 41065 |

Sub S5()

Sheets("Tabelle5").Activate

Dim myRange As Range

Set myRange = Worksheets("Tabelle5").Range("A2:C21")

myRange.Select

answer = Application.WorksheetFunction.Min(myRange)

answer = Application.WorksheetFunction.Average(myRange)

answer = Application.WorksheetFunction.Sum(myRange)

End Sub

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Wert 1 | Wert 2 | Wert 3 |  |  |  |  |  |
| 4 | 49 | 3131 |  |  | 12 | 465 | 654 |
| 4 | 465 | 84 |  |  | 45 | 56 | 894 |
| 4 | 916 | 111332 |  |  | 4 | 916 | 111332 |
| 4 | 5689 | 8941 |  |  | 65 | 6 | 615 |
| 5 | 654 | 0 |  |  | 54 | 4131 | 31 |
| 6 | 684 | 60541 |  |  | 498 | 64 | 3 |
| 12 | 465 | 654 |  |  | 6464 | 949 | 1313 |
| 45 | 56 | 894 |  |  | 4 | 5689 | 8941 |
| 46 | 1 | 65 |  |  | 4 | 49 | 3131 |
| 46 | 641 | 1 |  |  | 5 | 654 | 0 |
| 54 | 4131 | 31 |  |  | 564554 | 94 | 3065 |
| 64 | 89 | 98 |  |  | 64 | 89 | 98 |
| 65 | 4 | 16156 |  |  | 6 | 684 | 60541 |
| 65 | 6 | 615 |  |  | 46 | 641 | 1 |
| 465 | 54 | 654 |  |  | 645 | 45 | 651 |
| 465 | 481 | 16 |  |  | 46 | 1 | 65 |
| 498 | 64 | 3 |  |  | 65 | 4 | 16156 |
| 645 | 45 | 651 |  |  | 465 | 481 | 16 |
| 6464 | 949 | 1313 |  |  | 465 | 54 | 654 |
| 564554 | 94 | 3065 |  |  | 4 | 465 | 84 |

Sub S6()

Sheets("Tabelle6").Activate

Dim myRange As Range

Set myRange = Worksheets("Tabelle6").Range("A2:C21")

myRange.Copy Destination:=Range("F2:H21")

myRange.Sort Key1:=Cells(1, 1), Key2:=Cells(1, 2)

Range("F2:H21").Copy Destination:=Range("A2:A21")

End Sub

Sub S7()

Sheets("Tabelle7").Activate

Dim i As Integer: i = 3

Do Until Cells(i, 1) = ""

Cells(i, 1).Select

ActiveCell.EntireRow.Insert

i = i + 2

Loop

End Sub

Sub S7\_1()

For x = 40 To 1 Step -1

If Cells(x, 1) = "" Then

Cells(x, 1).Select

ActiveCell.EntireRow.Delete

End If

Next x

End Sub

Sub S8()

Sheets("Tabelle8").Activate

Cells.Select

Cells(1, 1).Select: ActiveCell.EntireRow.Select

Cells(1, 1).Select: ActiveCell.EntireColumn.Select

Range("A2:C5").Select

Range(Cells(2, 1), Cells(7, 3)).Select

Rows(3).Select

Rows("3:4").Select

myRange = CStr(5) & ":" & CStr(9): Rows(myRange).Select

Columns(1).Select

Columns("A:B").Select

Set mc = Worksheets(1).Cells(1, 1)

Var = mc.AddressLocal(ReferenceStyle:=xlR1C1)

Var = mc.AddressLocal(ReferenceStyle:=xlR1C1, \_

RowAbsolute:=False, \_

ColumnAbsolute:=False, \_

RelativeTo:=Worksheets(1).Cells(3, 3)) ' Z(-2)S(-2)

myRange = "R" & "2" & "C" & "1" & ":" & "R" & "3" & "C" & "3"

'inputRange = "R2C1:R3C3"

inputRangeC = Application.ConvertFormula( \_

Formula:=myRange, \_

fromReferenceStyle:=xlR1C1, \_

toReferenceStyle:=xlA1)

Range(myRangeC).Select

myFormula = "=SUM(R2C1:R3C3)"

myFormulaC = Application.ConvertFormula( \_

Formula:=myFormula, \_

fromReferenceStyle:=xlR1C1, \_

toReferenceStyle:=xlA1)

Cells(3, 4) = myFormulaC

End Sub

|  |  |
| --- | --- |
| Tabelle1 | Tabelle1 |
| Tabelle2 | Tabelle2 |
| Tabelle3 | Tabelle3 |
| Tabelle4 | Tabelle4 |
| Tabelle5 | Tabelle5 |
| Tabelle6 | Tabelle6 |
| Tabelle7 | Tabelle7 |
| Tabelle8 | Tabelle8 |
| Tabelle9 | Tabelle9 |

Sub S9\_1()

Application.OnTime Now + TimeValue("00:00:15"), "my\_Procedure"

End Sub

Sub S9\_2()

Application.OnTime TimeValue("13:26:30"), "my\_Procedure"

End Sub

Sub my\_Procedure()

MsgBox "Hi"

End Sub

Sub S9\_3()

If Application.Wait(Now + TimeValue("0:00:10")) Then

MsgBox "Time expired"

End If

End Sub

Sub S9\_4()

Application.SendKeys ("%fx")

End Sub

Sub S9\_5()

Worksheets("Tabelle9").Activate

For i = 1 To Sheets.Count

Cells(i, 1).Value = Sheets(i).Name

Next i

i = 1

For Each WS In Worksheets

Cells(i, 2).Value = WS.Name

i = i + 1

Next WS

'Set NewSheet = Sheets.Add(Type:=xlWorksheet)

'For i = 1 To Sheets.Count

'NewSheet.Cells(i, 1).Value = Sheets(i).Name

'Next i

End Sub

Sub S9\_6()

Application.Speech.Speak "Hello"

End Sub

Sub S9\_7()

a = ThisWorkbook.Path

b = Application.UserName

c = Application.Version

d = Application.OperatingSystem

e = ActiveWindow.Top

f = ActiveWindow.Left

g = ActiveWindow.Height

h = ActiveWindow.Width

End Sub

Sub S9\_8()

For Each w In Workbooks

If w.Name <> ThisWorkbook.Name Then

w.Close savechanges:=True

End If

Next w

End Sub

**IN: Diese Arbeitsmappe**

Private Sub Workbook\_SheetChange(ByVal Sh As Object, \_

ByVal Source As Range)

' runs when a sheet is changed

'Stop

End Sub

Private Sub Workbook\_SheetActivate(ByVal Sh As Object)

' runs when a sheet is changed

'Stop

End Sub

Private Sub Workbook\_Open()

'Stop

End Sub

Private Sub Workbook\_WindowActivate(ByVal Wn As Window)

'Stop

End Sub

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Projektebene | Number |  |  |  |  |  |  |
| PI | 3184 |  |  | 3184 | 2 | 541 | 5 |
| PI | 65413265 |  |  | 65413265 | 3 | 13487896 | 10 |
| PI | 65884 |  |  | 65884 | 4 | 54514 | 15 |
|  | 541 |  |  | 658 | 6 | 16548773 | 20 |
| PI | 658 |  |  | 8795132 | 7 | 331479 | 25 |
| PI | 8795132 |  |  | 87875 | 8 | 4198 | 30 |
| PI | 87875 |  |  | 877 | 9 |  |  |
| PI | 877 |  |  | 84896 | 11 |  |  |
|  | 13487896 |  |  | 4894 | 12 |  |  |
| PI | 84896 |  |  | 496 | 13 |  |  |
| PI | 4894 |  |  | 896 | 14 |  |  |
| PI | 496 |  |  | 651654 | 16 |  |  |
| PI | 896 |  |  | 188949 | 17 |  |  |
|  | 54514 |  |  | 1984 | 18 |  |  |
| PI | 651654 |  |  | 98419 | 19 |  |  |
| PI | 188949 |  |  | 84994 | 21 |  |  |
| PI | 1984 |  |  | 49849 | 22 |  |  |
| PI | 98419 |  |  | 489894 | 23 |  |  |
|  | 16548773 |  |  | 8797832 | 24 |  |  |
| PI | 84994 |  |  | 48974 | 26 |  |  |
| PI | 49849 |  |  | 498998 | 27 |  |  |
| PI | 489894 |  |  | 9899 | 28 |  |  |
| PI | 8797832 |  |  | 98989 | 29 |  |  |
|  | 331479 |  |  | 98896541 | 31 |  |  |
| PI | 48974 |  |  | 1689 | 32 |  |  |
| PI | 498998 |  |  | 69889 | 33 |  |  |
| PI | 9899 |  |  |  |  |  |  |
| PI | 98989 |  |  |  |  |  |  |
|  | 4198 |  |  |  |  |  |  |
| PI | 98896541 |  |  |  |  |  |  |
| PI | 1689 |  |  |  |  |  |  |
| PI | 69889 |  |  |  |  |  |  |

Dim PI\_Array() As Variant

Dim PI\_Array\_Index() As Integer

Dim PI\_Missing() As Variant

Dim PI\_Missing\_Index() As Integer

Option Explicit

Sub S10()

Sheets("Tabelle10").Activate

Dim i1, i2, i3, RowSize As Integer: i2 = 0: i3 = 0

RowSize = IIf(IsEmpty(Range("A1048576")), Range("A1048576").End(xlUp).Row, 1048576)

For i1 = 2 To RowSize

If Cells(i1, 1) = "PI" Then

i2 = i2 + 1

Else

i3 = i3 + 1

End If

Next i1

ReDim Preserve PI\_Array(0 To i2 - 1)

ReDim Preserve PI\_Array\_Index(0 To i2 - 1)

ReDim Preserve PI\_Missing(0 To i3 - 1)

ReDim Preserve PI\_Missing\_Index(0 To i3 - 1)

i2 = 0: i3 = 0

For i1 = 2 To RowSize

If Cells(i1, 1) = "PI" Then

PI\_Array(i2) = Cells(i1, 2)

PI\_Array\_Index(i2) = i1

i2 = i2 + 1

Else

PI\_Missing(i3) = Cells(i1, 2)

PI\_Missing\_Index(i3) = i1

i3 = i3 + 1

End If

Next i1

Call PrintOutArrays

End Sub

Sub PrintOutArrays()

Dim j, i

j = 2

For i = LBound(PI\_Array) To UBound(PI\_Array)

Cells(j, 5) = PI\_Array(i)

Cells(j, 6) = PI\_Array\_Index(i)

j = j + 1

Next i

j = 2

For i = LBound(PI\_Missing) To UBound(PI\_Missing)

Cells(j, 7) = PI\_Missing(i)

Cells(j, 8) = PI\_Missing\_Index(i)

j = j + 1

Next i

End Sub