

费用报表自动填充VBA代码

一、费用明细汇总分析

代码块

```
1 Sub Module2_Summary_Report()  
2  
3 ' -----  
4 ' 1. 定义常量、工作表和数据范围  
5 ' -----  
6 Dim wsData As Worksheet ' 费用明细数据表  
7 Dim wsDirectory As Worksheet ' 导航/超链接表  
8 Dim wsSummary As Worksheet ' 汇总分析表  
9 Dim rngData As Range ' 数据范围  
10 Dim lRow As Long ' 最后一行  
11 Dim ptCache As PivotCache ' 数据透视缓存  
12 Dim pt As PivotTable ' 数据透视表对象  
13  
14 Const DATA_SHEET_NAME As String = "费用明细"  
15 Const DIR_SHEET_NAME As String = "导航-汇总" ' 汇总报告导航表名称  
16 Const SUMMARY_SHEET_NAME As String = "汇总分析"  
17  
18 On Error Resume Next  
19 Set wsData = ThisWorkbook.Sheets(DATA_SHEET_NAME)  
20 On Error GoTo 0  
21  
22 If wsData Is Nothing Then  
23     MsgBox "未找到名为 '" & DATA_SHEET_NAME & "' 的费用明细工作表，请检查名  
24     称!", vbCritical  
25     Exit Sub  
26 End If  
27  
28 lRow = wsData.Cells(wsData.Rows.Count, "A").End(xlUp).Row  
29 Set rngData = wsData.Range(wsData.Cells(1, 1), wsData.Cells(lRow,  
30 wsData.UsedRange.Columns.Count))  
31  
32 ' -----  
33 ' 2. 清理旧表、创建缓存和汇总分析表  
34 ' -----  
35 Application.DisplayAlerts = False  
36  
37 ' 清理本模块生成的汇总表和导航表（不干扰 Module 1 的输出）
```

```

36     If WorksheetExists(SUMMARY_SHEET_NAME) Then
ThisWorkbook.Sheets(SUMMARY_SHEET_NAME).Delete
37     If WorksheetExists(DIR_SHEET_NAME) Then
ThisWorkbook.Sheets(DIR_SHEET_NAME).Delete
38
39     Application.DisplayAlerts = True
40
41     ' 创建数据透视缓存
42     Set ptCache = ThisWorkbook.PivotCaches.Create( _
43         SourceType:=xlDatabase, _
44         SourceData:=rngData)
45
46     ' 创建汇总分析工作表，放在费用明细前面
47     Set wsSummary = ThisWorkbook.Sheets.Add(Before:=wsData)
48     wsSummary.Name = SUMMARY_SHEET_NAME
49
50     ' 在汇总分析表上创建主数据透视表
51     Set pt = wsSummary.PivotTables.Add( _
52         PivotCache:=ptCache, _
53         TableDestination:=wsSummary.Range("A1"), _
54         TableName:="MasterSummaryPivot")
55
56     ' -----
57     ' 3. 设置数据透视表布局
58     ' -----
59     On Error GoTo ErrorHandler_M2
60
61     With pt
62         ' 关键：成本中心作为筛选器 (Page Field)
63         .PivotFields("成本中心").Orientation = xlPageField
64
65         ' 设置行字段，并禁用小计
66         .PivotFields("成本要素").Orientation = xlRowField
67         .PivotFields("成本要素").Subtotals(1) = False
68
69         .PivotFields("成本要素名称").Orientation = xlRowField
70         .PivotFields("成本要素名称").Subtotals(1) = False
71
72         ' 设置值字段
73         With .PivotFields("对象货币值")
74             .Orientation = xlDataField
75             .Caption = "汇总" & vbLf & "对象货币值"
76             .Function = xlSum
77             .NumberFormat = "#,##0.00"
78         End With
79
80         ' 设置为表格形式

```

```

81         .RowAxisLayout xlTabularRow
82     End With
83
84     ' -----
85     ' 4. 创建导航表（只链接到汇总分析表）
86     ' -----
87
88     On Error GoTo 0 ' 重置错误处理
89
90     ' 创建导航表，放在最前面
91     Set wsDirectory = ThisWorkbook.Sheets.Add(Before:=ThisWorkbook.Sheets(1))
92     wsDirectory.Name = DIR_SHEET_NAME ' 使用 "导航-汇总"
93
94     ' 设置标题
95     wsDirectory.Range("A1").Value = "汇总报告导航"
96     wsDirectory.Range("A1").Font.Bold = True
97
98     ' 只为 "汇总分析" 表创建超链接
99     wsDirectory.Hyperlinks.Add _
100         Anchor:=wsDirectory.Cells(2, 1), _
101         Address:="", _
102         SubAddress:="" & SUMMARY_SHEET_NAME & "!A1", _
103         TextToDisplay:=SUMMARY_SHEET_NAME, _
104         ScreenTip:="点击跳转到 " & SUMMARY_SHEET_NAME & " 工作表"
105
106     wsDirectory.Columns("A").AutoFit
107
108     MsgBox "成功创建了汇总分析表和导航表!", vbInformation
109     Exit Sub
110
111     ' 错误处理标签
112     ErrorHandler_M2:
113     MsgBox "宏在创建数据透视表时发生致命错误。请检查以下四个字段名称是否完全匹配：'成本要素', '成本要素名称', '对象货币值', '成本中心'。", vbCritical
114     Exit Sub
115
116 End Sub
117
118 ' -----
119 ' 辅助函数：检查工作表是否存在（在两个模块中都需要）
120 ' -----
121 Function WorksheetExists(SheetName As String) As Boolean
122     Dim ws As Worksheet
123     On Error Resume Next
124     Set ws = ThisWorkbook.Sheets(SheetName)
125     On Error GoTo 0
126     WorksheetExists = Not ws Is Nothing

```

二、费用明细分成本中心代码

代码块

```

1 Sub Module1_Detail_Reports_Revised()
2
3     ' -----
4     ' 1. 定义常量、工作表和数据范围
5     ' -----
6     Dim wsData As Worksheet      ' 费用明细数据表
7     Dim wsDirectory As Worksheet ' 导航/超链接表
8     Dim wsSourcePT As Worksheet ' 临时的源数据透视表工作表
9     Dim rngData As Range         ' 数据范围
10    Dim lRow As Long              ' 最后一行
11    Dim ptCache As PivotCache     ' 数据透视缓存
12    Dim pt As PivotTable          ' 数据透视表对象
13    Dim wsNew As Worksheet        ' 遍历工作表对象
14    Dim rowCount As Long          ' 用于目录表行计数
15    Dim createdSheetCount As Long ' 用于计数创建的工作表数量
16
17    Const DATA_SHEET_NAME As String = "费用明细"
18    Const TEMP_PT_NAME As String = "PT_Source_Template"
19    Const DIR_SHEET_NAME As String = "导航-明细" ' 导航表名称
20
21    ' 设置数据源工作表
22    On Error Resume Next
23    Set wsData = ThisWorkbook.Sheets(DATA_SHEET_NAME)
24    On Error GoTo 0
25
26    If wsData Is Nothing Then
27        MsgBox "未找到名为 '" & DATA_SHEET_NAME & "' 的费用明细工作表，请检查名
28        称!", vbCritical
29        Exit Sub
30    End If
31
32    ' 确定数据范围
33    lRow = wsData.Cells(wsData.Rows.Count, "A").End(xlUp).Row
34    Set rngData = wsData.Range(wsData.Cells(1, 1), wsData.Cells(lRow,
35    wsData.UsedRange.Columns.Count))
36
37    ' -----
38    ' 2. 清理旧表并设置临时表位置
39    ' -----

```

```

39      ' 清理可能存在的旧表和旧的导航表
40      Application.DisplayAlerts = False
41      If WorksheetExists(TEMP_PT_NAME) Then
42          ThisWorkbook.Sheets(TEMP_PT_NAME).Delete
43      If WorksheetExists(DIR_SHEET_NAME) Then
44          ThisWorkbook.Sheets(DIR_SHEET_NAME).Delete
45      Application.DisplayAlerts = True
46
47      ' 创建数据透视缓存
48      Set ptCache = ThisWorkbook.PivotCaches.Create( _
49          SourceType:=xlDatabase, _
50          SourceData:=rngData)
51
52      ' *** 关键修正 1: 将临时工作表放在费用明细表之后 ***
53      Set wsSourcePT = ThisWorkbook.Sheets.Add(After:=wsData)
54      wsSourcePT.Name = TEMP_PT_NAME
55
56      ' 在临时表上创建单个数据透视表
57      Set pt = wsSourcePT.PivotTables.Add( _
58          PivotCache:=ptCache, _
59          TableDestination:=wsSourcePT.Range("A1"), _
60          TableName:="MasterPivot")
61
62      ' -----
63      ' 3. 设置数据透视表布局
64      ' -----
65      On Error GoTo ErrorHandler ' 开启错误处理
66
67      With pt
68          .PivotFields("成本中心").Orientation = xlPageField
69
70          ' 设置行字段，并禁用小计
71          .PivotFields("成本要素").Orientation = xlRowField
72          .PivotFields("成本要素").Subtotals(1) = False
73
74          .PivotFields("成本要素名称").Orientation = xlRowField
75          .PivotFields("成本要素名称").Subtotals(1) = False
76
77          ' 设置值字段
78          With .PivotFields("对象货币值")
79              .Orientation = xlDataField
80              .Caption = "汇总" & vbLf & "对象货币值"
81              .Function = xlSum
82              .NumberFormat = "#,##0.00"
83          End With
84
85          .RowAxisLayout xlTabularRow

```

```

84 End With
85
86 ' -----
87 ' 4. 使用 ShowPages 自动创建个体报告（新表将位于费用明细表之后）
88 ' -----
89
90 pt.ShowPages PageField:="成本中心"
91
92 ' 核心任务完成后，重置错误处理，确保宏平稳执行清理和目录创建
93 On Error GoTo 0
94
95 ' -----
96 ' 5. 清理和创建导航表（放在费用明细表之前）
97 ' -----
98
99 ' 删除临时工作表
100 Application.DisplayAlerts = False
101 If WorksheetExists(TEMP_PT_NAME) Then wsSourcePT.Delete
102 Application.DisplayAlerts = True
103
104 ' 创建导航工作表
105 Set wsDirectory =
ThisWorkbook.Sheets.Add(After:=ThisWorkbook.Sheets(ThisWorkbook.Sheets.Count))
106 wsDirectory.Name = DIR_SHEET_NAME
107
108 ' *** 关键修正 2：将导航工作表放在费用明细表之前 ***
109 wsDirectory.Move Before:=wsData
110
111 ' 设置标题
112 wsDirectory.Range("A1").Value = "明细报告导航"
113 wsDirectory.Range("A1").Font.Bold = True
114
115 rowCount = 2
116 createdSheetCount = 0
117
118 ' 遍历所有工作表，创建超链接
119 For Each wsNew In ThisWorkbook.Sheets
120     ' 排除数据源表、导航表
121     If wsNew.Name <> DATA_SHEET_NAME And wsNew.Name <> wsDirectory.Name
Then
122
123         ' 创建超链接
124         wsDirectory.Hyperlinks.Add _
125             Anchor:=wsDirectory.Cells(rowCount, 1), _
126             Address:="", _
127             SubAddress:="" & wsNew.Name & "!A1", _
128             TextToDisplay:=wsNew.Name, _

```

```

129         ScreenTip:="点击跳转到 " & wsNew.Name & " 工作表"
130
131         rowCount = rowCount + 1
132         createdSheetCount = createdSheetCount + 1
133     End If
134 Next wsNew
135
136 ' 调整导航表格式
137 wsDirectory.Columns("A").AutoFit
138
139 MsgBox "成功创建了 " & createdSheetCount & " 个明细报告和导航表!",
vbInformation
140 Exit Sub
141
142 ' 错误处理标签
143 ErrorHandler:
144 ' 尝试安全清理对象，避免宏卡死
145 On Error Resume Next
146 Application.DisplayAlerts = False
147 If WorksheetExists(TEMP_PT_NAME) Then
ThisWorkbook.Sheets(TEMP_PT_NAME).Delete
148 Application.DisplayAlerts = True
149 On Error GoTo 0
150
151 MsgBox "宏在创建数据透视表时发生致命错误。请检查以下四个字段名称是否完全匹配：'成本要素', '成本要素名称', '对象货币值', '成本中心'。", vbCritical
152 Exit Sub
153
154 End Sub
155
156 ' -----
157 ' 辅助函数：检查工作表是否存在（需与 Module 2 共享）
158 ' -----
159 Function WorksheetExists(SheetName As String) As Boolean
160     Dim ws As Worksheet
161     On Error Resume Next
162     Set ws = ThisWorkbook.Sheets(SheetName)
163     On Error GoTo 0
164     WorksheetExists = Not ws Is Nothing
165 End Function

```

三、一键填充费用报表并生成未匹配清单

代码块

```

1 Sub MatchAndFillCostData_Final_V14()

```

```

2
3 ' -----
4 ' 声明变量
5 ' -----
6 Dim wbSource As Workbook
7 Dim wbTarget As Workbook
8 Dim wsTarget As Worksheet
9 Dim wsSource As Worksheet
10 Dim sFilePath As String
11 Dim sFileName As String
12 Dim vSheetName As Variant
13 Dim sSheetName As Variant
14 Dim i As Long
15 Dim lRowTarget As Long
16 Dim lRowSource As Long
17 Dim missingSheets As New Collection
18 Dim rowNum As Long          ' 逐行迭代计数器
19
20 ' *** 定义数据开始行：数值和公式都从第 4 行开始 ***
21 Const START_ROW As Long = 4
22
23 ' -----
24 ' 设定常量和文件信息
25 ' -----
26 sFilePath = "D:\YOUHUAN\Job Hunting\KF\报表\"
27 sFileName = "费用明细表.xlsm"
28
29 Set wbTarget = ThisWorkbook
30
31 On Error GoTo ErrorHandler
32 Application.ScreenUpdating = False
33
34 If Dir(sFilePath & sFileName) = "" Then
35     MsgBox "未找到文件: " & sFilePath & sFileName & vbCrLf & "请检查文件名或路
是是否正确!", vbCritical
36     GoTo ExitSub
37 End If
38
39 Set wbSource = Workbooks.Open(sFilePath & sFileName, ReadOnly:=True)
40
41 ' -----
42 ' 确定要处理的成本中心Sheet列表
43 ' -----
44 ReDim vSheetName(1 To wbTarget.Worksheets.Count)
45 For i = 1 To wbTarget.Worksheets.Count
46     vSheetName(i) = wbTarget.Worksheets(i).Name
47 Next i

```



```

48
49 ' -----
50 ' 循环处理每个成本中心Sheet
51 ' -----
52 For Each sSheetName In vSheetName
53
54     On Error Resume Next
55     Set wsTarget = wbTarget.Sheets(sSheetName)
56     Set wsSource = wbSource.Sheets(sSheetName)
57     On Error GoTo ErrorHandler
58
59     If Not wsTarget Is Nothing And Not wsSource Is Nothing Then
60
61         ' 清空目标列 AM 的旧数据（只清空数据行，不影响总计公式）
62         ' 逐行处理时，为保险起见，暂时不批量清空
63
64         ' 找到目标Sheet中成本要素代码列（C列）的最后一行
65         lRowTarget = wsTarget.Cells(wsTarget.Rows.Count, "C").End(xlUp).Row
66         If lRowTarget < START_ROW Then lRowTarget = START_ROW
67
68         ' 找到来源工作簿中 A 列的最后一行
69         lRowSource = wsSource.Cells(wsSource.Rows.Count, "A").End(xlUp).Row
70
71         If lRowSource >= START_ROW Then
72
73             ' 构造 VLOOKUP 查找范围字符串（只构造一次，节省性能）
74             Dim sStartCellRef As String
75             sStartCellRef = wsSource.Range("A2").Address(External:=True)
76             sStartCellRef = Left(sStartCellRef, InStrRev(sStartCellRef,
"!") - 1)
77
78             ' 查找范围：从 A4 开始到 C 列的最后一行
79             Dim sLookupRangeFormula As String
80             sLookupRangeFormula = sStartCellRef & "!" & "$A$4:$C$" & lRowSource
81
82             ' *** 关键修正：逐行应用 VLOOKUP 公式，并检查 C 列数据 ***
83             For rowNum = START_ROW To lRowTarget
84
85                 ' **VLOOKUP 应用条件：C 列单元格必须是一个数字（即成本要素代码）**
86                 ' 这可以安全跳过所有文本行（如表头、合计）和空白行
87                 If IsNumeric(wsTarget.Cells(rowNum, "C").Value) And
wsTarget.Cells(rowNum, "C").Value <> "" Then
88
89                     ' VLOOKUP 公式（查找 C 列，在 A:C 范围的第 3 列返回数据）
90                     Dim sVlookupFormula As String
91                     sVlookupFormula = "IFERROR(VLOOKUP(C" & rowNum & ", " &
sLookupRangeFormula & ", 3, FALSE), """"")"

```

```

92
93         ' 1. 应用公式
94         With wsTarget.Cells(rowNum, "AM")
95             .Formula = "=" & sVlookupFormula
96
97         ' 2. 转换为值, 去除公式
98         .Value = .Value
99         End With
100
101     End If
102     Next rowNum ' 继续下一行
103
104 End If
105
106 Set wsTarget = Nothing
107 Set wsSource = Nothing
108
109 ElseIf wsSource Is Nothing Then
110     If Not wsTarget Is Nothing Then
111         missingSheets.Add sSheetName
112     End If
113 End If
114
115 Next sSheetName
116
117 ' -----
118 ' 生成缺失成本中心清单
119 ' -----
120 If missingSheets.Count > 0 Then
121
122     Dim wsReport As Worksheet
123     On Error Resume Next
124     Set wsReport = wbTarget.Sheets("缺失成本中心清单")
125     If wsReport Is Nothing Then
126         Set wsReport =
wbTarget.Sheets.Add(After:=wbTarget.Sheets(wbTarget.Sheets.Count))
127         wsReport.Name = "缺失成本中心清单"
128     Else
129         wsReport.Cells.Clear
130     End If
131     On Error GoTo ErrorHandler
132
133     wsReport.Range("A1").Value = "目标工作簿中存在, 但费用明细表缺失的 Sheet /
成本中心"
134     wsReport.Range("B1").Value = "状态"
135     wsReport.Range("A1:B1").Font.Bold = True
136

```

```

137         Dim rowNumReport As Long: rowNumReport = 2
138         Dim item As Variant
139
140         For Each item In missingSheets
141             wsReport.Cells(rowNumReport, 1).Value = item
142             wsReport.Cells(rowNumReport, 2).Value = "费用明细表（源）缺失"
143             rowNumReport = rowNumReport + 1
144         Next item
145
146         wsReport.Columns("A:B").AutoFit
147     End If
148
149
150     ' -----
151     ' 清理和退出
152     ' -----
153 ExitSub:
154
155     If Not wbSource Is Nothing Then
156         On Error Resume Next
157         If Not wbSource Is ThisWorkbook Then
158             wbSource.Close SaveChanges:=False
159         End If
160         On Error GoTo 0
161     End If
162
163     Application.ScreenUpdating = True
164
165     If Err.Number = 0 Then
166         MsgBox "数据匹配和清单生成完成！请检查 AM 列和新的清单工作表。",
vbInformation
167     End If
168
169     Exit Sub
170
171     ' -----
172     ' 错误处理程序
173     ' -----
174 ErrorHandler:
175     MsgBox "运行过程中发生错误，错误号：" & Err.Number & "，错误描述：" &
Err.Description, vbCritical
176     Resume ExitSub
177
178 End Sub

```