

VBA SOURCE CODE BOOK

EMPLOYEE MANAGER PT. 3 AUTO-COMPLETE, SAVE & ATTACHMENTS

EMPLOYEE MANAGER PT. 3

Employee: Aasen, Flores Add New Delete Empl. ID: 1001

General Info | Time Clock History | Payroll History | Payroll Detail | Scheduling | Leave

Last Name: Aasen | First Name: Flores

Address: 7167 Buning Circles

City: Sunrise Vista | State: CA

Zip Code: 90842 | Cell Phone: 5514284049

Other Phone: 6794286992 | Email: Flor.Aasen@TestComp | Gender:

Status: | Position: | Hire Date: 1/4/2018

File Name	File Type	File Path	Added By	Added On
ificateSample.png	png	C:\Aasen_Flores\Certi	Randy Austin	9/24/2018 7:02
Profile4.jpg	jpg	C:\Users\Randy\Dropt	Randy Austin	9/23/2018 14:40
Profile3.jpg	jpg	C:\Users\Randy\Dropt	Randy Austin	9/23/2018 14:27
Employee_Manager_P	xism	C:\Users\Randy\Dropt	Randy Austin	9/23/2018 12:33



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How To Add Auto-Complete,
Attachments & Auto-Save
Data In Excel
[Employee Manager Pt. 3]



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by: Randy Austin

ABOUT THE AUTHOR

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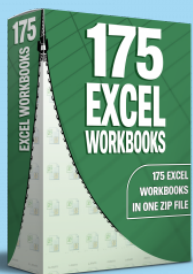
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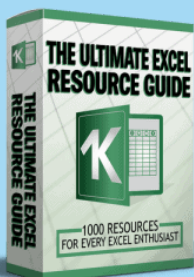
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Option Explicit

```
1 Private Sub Worksheet_Change(ByVal Target As Range)
2
3     Dim EmpRow As Long
4     If Not Intersect(Target, Range("F2" )) Is Nothing Then
5         If Range("F2" ).Value <> Empty And Range("B5" ).Value <> Empty Then Empl_Load
6     End If
7     If Not Intersect(Target, Range("E6:J184" )) Is Nothing And Range("B1" ).Value = False Then
8         'On Cell change but not on Employee load
9         If Range("B4" ).Value = Empty Or Cells(Target.Row, Target.Column + 22).Value = Empty Or
10            IsNumeric(Cells(Target.Row, Target.Column + 22).Value) = False Then Exit Sub
11         EmpRow = Range("B4" ).Value 'Employee Row
12         Sheet2.Cells(EmpRow, Cells(Target.Row, Target.Column + 22).Value).Value = Target.Value
13     End If
14 End Sub
```

```
15 Private Sub Worksheet_SelectionChange(ByVal Target As Range)
16     If Target.Count > 1 Then Exit Sub
17     If Not Intersect(Target, Range("E4:J4" )) Is Nothing Then
18         Range("B2" ).Value = Target.Column
19         Range("F2" ).Select
20         SwitchHorizontalTabs
21     End If
22     If Not Intersect(Target, Range("E66:E129" )) Is Nothing Then
23         If Target.Value = Empty Or Target.Value = "Select Option" Then Exit Sub
24         SwitchVerticalTabs
25     End If
26     If Not Intersect(Target, Range("E19:I24" )) Is Nothing Then
27         Range("B7" ).Value = Target.Row
28         If Range("J" & Target.Row).Value <> Empty Then Attach_DisplayThumbnail
29     Else: Range("B7" ).ClearContents
30     End If
31
32 End Sub
```

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```

1  Option Explicit
2
3  Sub Emp_SaveNew()
4      Dim EmpRow As Long
5      Dim EmpCol As Long
6      With Sheet1
7          If .Range("F6").Value = Empty Then
8              MsgBox "Please enter a Last Name for the Employee"
9              .Range("F6").Select
10             Exit Sub
11         End If
12         EmpRow = Sheet2.Range("A99999").End(xlUp).Row + 1 'First Avail Row
13         Sheet2.Range("A" & EmpRow).Value = Application.WorksheetFunction.Max(Sheet2.Range(
14             "EmployeeID" )) + 1
15         For EmpCol = 2 To 28
16             Sheet2.Cells(EmpRow, EmpCol).Value = .Range(Sheet2.Cells(1, EmpCol).Value).Value
17         Next EmpCol
18         .Range("F2").Value = .Range("F6").Value & ", " & .Range("H6").Value 'Add in Last
19         Name, First Name
20         .Shapes("NewEmpGrp").Visible = msoFalse
21         .Shapes("ExistEmpGrp").Visible = msoCTrue
22         .Range("B1").Value = False 'Set Empl Load To False
23         .Range("B6").Value = False 'Set New Employee To False
24     End With
25     'Sort Employee List
26     With Sheet2
27         .Sort.SortFields.Clear
28         .Sort.SortFields.Add Key:=.Range("B4"), SortOn:=xlSortOnValues, Order:=xlAscending,
29         DataOption:=xlSortNormal
30     With .Sort
31         .SetRange Range("A4:AB" & EmpRow)
32         .Apply
33     End With
34 End With
35 End Sub
36
37 Sub Empl_CancelNew()
38     Sheet1.Range("F2").Value = Sheet1.Range("F185").Value
39 End Sub
40
41 Sub Empl_Load()
42     Dim EmpRow As Long
43     Dim EmpCol As Long
44     With Sheet1
45         If .Range("B5").Value = Empty Then
46             MsgBox "Please enter a valid Employee from the drop down list"
47             Exit Sub
48         End If
49         .Range("B1").Value = True 'Set Employee Load To True
50         EmpRow = .Range("B5").Value
51         .Range(
52             "J2,F6,H6,F8:H8,F10,H10,F12,J10,H12,F14,H14,J14,F16,H16,J16,G66,I66,G68,I68,G70,I70,G86,
53             I86,G88,I88,F182,H182,J182").ClearContents
54         .Range(
55             "F26,H26,J26,E19:J24,D28:J44,F46,H46,J46,D48:J64,F93:J104,F108:J119,F128:J139,F148:I154,
56             D168:J179").ClearContents
57         For EmpCol = 1 To 28
58             .Range(Sheet2.Cells(1, EmpCol).Value).Value = Sheet2.Cells(EmpRow, EmpCol).Value
59         Next EmpCol
60     End With
61 End Sub

```

```
1 2
55 .Shapes("NewEmpGrp" ).Visible = msoFalse
56 .Shapes("ExistEmpGrp" ).Visible = msoCTrue
57 .Range("B1" ).Value = False 'Set Employee Load To False
58 .Range("B6" ).Value = False 'Set New Employee To False
59 .Range("E4" ).Select 'Load General Info Tab
60 Show_EmplPic
61 Attach_Refresh
62 End With
63 End Sub
64
65 Sub Empl_New()
66 With Sheet1
67 .Range("B1" ).Value = True 'Set Employee Load To False
68 .Shapes("NewEmpGrp" ).Visible = msoCTrue
69 .Shapes("ExistEmpGrp" ).Visible = msoFalse
70 .Shapes("DefaultPicture" ).Visible = msoCTrue
71 On Error Resume Next
72 .Shapes("EmplPic" ).Delete
73 On Error GoTo 0
74 .Range(
    "F2:G2,J2,F6,H6,F8:H8,F10,H10,F12,J10,H12,F14,H14,J14,F16,H16,J16,G66,I66,G68,I68,G70,I7
    0,G86,I86,G88,I88,F182,H182,J182" ).ClearContents
75 .Range(
    "F26,H26,J26,E19:J24,D28:J44,F46,H46,J46,D48:J64,F93:J104,F108:J119,F128:J139,F148:I154,
    D168:J179" ).ClearContents
76 .Range("B6" ).Value = True 'Set New Employee To True
77 .Range("E4" ).Select 'Selects General Info Tab
78 .Range("F6" ).Select 'Select Last Name Field
79
80 .Range("B1" ).Value = False 'Set Employee Load To False
81
82 End With
83 End Sub
```


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```
1 Option Explicit
2
3 Sub Add_EmplPic()
4     Dim PicFile As FileDialog
5     With Sheet1
6         Set PicFile = Application.FileDialog(msoFileDialogFilePicker)
7         With PicFile
8             .Title = "Select an Employee Picture"
9             .Filters.Add "All Picture Files", "*.jpg,*jpeg,*.gif,*.png,*.gif,*bmp,*.tiff"
10            If .Show <> -1 Then GoTo NoSelection
11            Sheet1.Range("J10").Value = .SelectedItems(1) 'Put File Name in J10
12        End With
13        'On Existing Employees, Add/Update Employee Picture in database
14        Show_EmplPic
15        NoSelection:
16    End With
17 End Sub
18
19
20 Sub Show_EmplPic()
21     Dim PicPath As String
22     With Sheet1
23         On Error Resume Next
24         .Shapes("EmplPic").Delete 'Delete Picture if it exists
25         On Error GoTo 0
26         PicPath = .Range("J10").Value 'Path of the picture
27         If PicPath = Empty Then
28             .Shapes("DefaultPicture").Visible = msoCTrue
29             Exit Sub
30         End If
31         .Shapes("DefaultPicture").Visible = msoFalse
32         With .Pictures.Insert(PicPath)
33             With .ShapeRange
34                 .LockAspectRatio = msoTrue
35                 .Height = 95
36                 .Name = "EmplPic"
37             End With 'Shape Range
38         End With 'Pictures
39
40         With .Shapes("EmplPic")
41             .Left = Sheet1.Range("I5").Left
42             .Top = Sheet1.Range("I5").Top
43             .IncrementLeft 50
44             .IncrementTop 15
45         End With
46
47
48
49
50
51
52
53
54
55     End With 'Sheet 1
56
57 End Sub
```

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```
1 Option Explicit
2
3 Sub SwitchHorizontalTabs()
4     Dim SelCol As Long
5     Dim FirstRow As Long
6     With Sheet1
7         SelCol = .Range("B2").Value
8         If SelCol > 8 Then SelCol = SelCol + 3
9         .Range("5:184").EntireRow.Hidden = True
10        FirstRow = 5 + ((SelCol - 5) * 20)
11        .Range(FirstRow & ":" & FirstRow + 19).EntireRow.Hidden = False
12        If SelCol <> 5 Then
13            On Error Resume Next
14            .Shapes("EmplPic").Visible = msoFalse
15            On Error GoTo 0
16            .Shapes("DefaultPicture").Visible = msoFalse
17            On Error Resume Next
18            .Shapes("ThumbPic").Visible = msoFalse
19            On Error GoTo 0
20        Else:
21            On Error Resume Next
22            .Shapes("ThumbPic").Visible = msoCTrue
23            On Error GoTo 0
24            If .Range("J10").Value = Empty Then .Shapes("DefaultPicture").Visible = msoCTrue
25            Else: Show_EmplPic
26        End If
27        If SelCol = 8 Then .Range("B3").Value = 66
28    End With
29 End Sub
30
31 Sub SwitchVerticalTabs()
32     Dim SelRow As Long
33     Dim FirstRow As Long
34     SelRow = Right(ActiveCell.Row, 1) - 5
35     With Sheet1
36         .Range("65:144").EntireRow.Hidden = True
37         FirstRow = 65 + ((SelRow - 1) * 20)
38         .Range(FirstRow & ":" & FirstRow + 19).EntireRow.Hidden = False
39         .Range("B3").Value = SelRow + FirstRow
40         .Range("F2").Select
41     End With
42 End Sub
```

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```

1  Option Explicit
2
3  Sub Attach_Add()
4      Dim FileFldr As FileDialog
5      Dim FileName, OrigFilePath, FileType, DestFileFolder, DestFilePath, EmpID, EmpName As String
6      Dim LastAttRow As Long
7      DestFileFolder = Sheet4.Range("EmplAttachFolder").Value
8      If DestFileFolder = "" Then 'If user has not added a main folder yet
9          MsgBox "Before attaching any files for this Employee, please select a dedicated" &
10             vbCrLf & "folder to store the individual Employee Attachments"
11         Exit Sub
12     End If
13     EmpID = Sheet1.Range("J2").Value 'Employee ID
14     EmpName = Replace(Replace(Sheet1.Range("F2").Value, ",", "_"), " ", "") 'Employee Name
15     Set FileFldr = Application.FileDialog(msoFileDialogFilePicker)
16     With FileFldr
17         .Title = "Select file to attach"
18         .Filters.Add "All Files", "*.*"
19         If .Show <> -1 Then GoTo NoSelection
20         OrigFilePath = .SelectedItems(1)
21         FileName = Dir(OrigFilePath)
22         FileType = Right(FileName, Len(FileName) - InStr(Dir(FileName), "."))
23     End With
24
25     'Check if Employee Folder exists, if not, add it.
26     If Len(Dir(DestFileFolder & "\" & EmpName, vbDirectory)) = 0 Then
27         MkDir DestFileFolder & "\" & EmpName
28     End If
29     DestFilePath = DestFileFolder & "\" & EmpName & "\" & FileName
30     FileCopy OrigFilePath, DestFilePath 'Copy user selected file into appropriate Employee
31     folder
32     'Kill (OrigFilePath) 'If you want to delete the original file in the original location
33
34     With Sheet3
35         LastAttRow = .Range("D9999").End(xlUp).Row + 1 'First Avail. Attachment Row
36         .Range("D" & LastAttRow).Value = EmpID 'EmployeeID
37         .Range("E" & LastAttRow).Value = Sheet1.Range("F2").Value 'Employee Name
38         .Range("F" & LastAttRow).Value = FileName
39         .Range("G" & LastAttRow).Value = FileType
40         .Range("H" & LastAttRow).Value = DestFilePath
41         .Range("I" & LastAttRow).Value = Application.UserName
42         .Range("J" & LastAttRow).Value = Now
43         .Range("K" & LastAttRow).Value = "=Row()"
44     End With
45
46     Attach_Refresh 'Refresh List To Display New Attachment
47     Sheet1.Range("E19").Select 'Select First Item to Display Thumbnail (if any)
48     Attach_DisplayThumbnail
49     NoSelection:
50
51 End Sub
52
53 Sub Attach_Delete()
54     Dim EmpID, AttRow As Long
55     If Sheet1.Range("J" & ActiveCell.Row).Value = Empty Then
56         MsgBox "Please select an Attachment to delete first"
57     Exit Sub

```

```

58 1 2 End If
59 On Error Resume Next
60 Sheet1.Shapes("ThumbPic").Delete
61 On Error GoTo 0
62
63 AttRow = Sheet1.Range("J" & ActiveCell.Row).Value 'Attachment Row
64 Sheet3.Range(AttRow & ":" & AttRow).EntireRow.Delete
65 Attach_Refresh
66 Sheet1.Range("E19").Select
67 Attach_DisplayThumbnail
68 End Sub
69
70 Sub Attach_DisplayThumbnail()
71 Dim AttRow, AttTableRow As Long
72 Dim FileType, FilePath, ThumbType As String
73 With Sheet1
74 On Error Resume Next
75 .Shapes("ThumbPic").Delete
76 On Error GoTo 0
77 If .Range("B7").Value = Empty Then Exit Sub 'Exit on No AttachmentRow
78 AttRow = .Range("B7").Value 'Set Attachment Row
79 FileType = LCase(.Range("F" & AttRow).Value)
80 AttTableRow = .Range("J" & AttRow).Value 'Attachment Table Row
81 If FileType = "jpg" Or FileType = "png" Or FileType = "gif" Or FileType = "jpeg" Or
      FileType = "bmp" Then
82     FilePath = .Range("G" & AttRow).Value 'Full File Path
83     With .Pictures.Insert(FilePath)
84         .Name = "ThumbPic"
85         If .Width > .Height Then .Width = 80 Else: .Height = 80
86     End With
87     With .Shapes("ThumbPic")
88         .Visible = msoCTrue
89         .LockAspectRatio = True
90         .Left = Sheet1.Range("J19").Left
91         .Top = Sheet1.Range("J19").Top
92         .IncrementLeft 5
93         .IncrementTop 2
94     End With
95 End If
96 End With
97 End Sub
98
99 Sub Attach_Refresh()
100 Dim EmpID, AttRow, LastAttRow, LastFiltRow, FiltRow As Long
101 'If Application.Calculation = xlCalculationAutomatic Then StopCalc
102 EmpID = Sheet1.Range("J2").Value 'Empoyee ID
103 Sheet1.Range("E19:I24").ClearContents 'Clear Old Attachemets
104 AttRow = 19 'Set Starting Attachments Row
105 With Sheet3
106     .Range("AA2:AH2,AA4:AH9999").ClearContents 'Clear Prev Adv. Filter
107     .Range("AA2").Value = EmpID 'Set Empl. ID as Filter
108     LastAttRow = .Range("D9999").End(xlUp).Row
109     If LastAttRow < 4 Then GoTo NoData
110     .Range("D3:K" & LastAttRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
111         "AA1:AH2"), CopyToRange:=.Range("AA3:AG3"), Unique:=True
112     LastFiltRow = .Range("AA9999").End(xlUp).Row 'Last Filtered Row
113     If LastFiltRow < 4 Then Exit Sub 'If no Attach. found then Exit
114     For FiltRow = LastFiltRow To 4 Step -1 'Use Reverse For next to put most recent
115         Attach.First
116         Sheet1.Range("E" & AttRow & ":J" & AttRow).Value = .Range("AB" & FiltRow & ":AG"
117             & FiltRow).Value 'Copy Over Attachment Info

```

1 2 3

```
115     1 2 3     AttRow = AttRow + 1
116         If AttRow = 25 Then Exit Sub 'Exit If Table is Full
117     Next FilRow
118     End With
119     NoData:
120     'ResetCode
121 End Sub
122
123 Sub Testt()
124     ActiveCell.Value = Chr(34)
125 End Sub
```


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Thank You!

This source code was created and made available to help you gain a better understanding of how VBA is used to create amazing Excel-based applications.

Thank you so much for your continued shares, likes and support. It really helps.



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