

# VBA SOURCE CODE BOOK

## DYNAMIC RACI MATRIX - UPDATED

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& GOLD  
MEMBERS**

**DYNAMIC R A C I MATRIX**

Show Projects	Task Name	Inspection Notes	Save / Add Task	Project Name	Project Type	Commercial Estimate	Add Employee
[All Statuses]	Task Type/Category	Inspection	<input checked="" type="checkbox"/>	Fredders Remodel	Project Status	Estimate	
[All Types]	Task Status: Pending	Due date: 10/21/2021		Description: Remodle fo Fredders Factory	Add Proj. Empl.		
	Task Status To Display: [All Statuses]	Display By: <input type="radio"/> Name <input type="radio"/> Position		Fred Fredders David Davidson Mark Nelson Kay Hobkins Lisa Matthews Greg Perkins Travis Wilkins Grant Perkins Tina Simmons Tim Simmons Hank Nelson Debbie Davis Jack Johnson			
PROJECTS	TASKS	STATUS	DUE DATE	REQUIRED ROLES			
Fredders Remodel	Proposal						
Starbucks Build	Client Meeting	Pending	10/16/2021	R	A	C	C
Johns Kitchen	Zoom Client Call	Completed	10/13/2021	R	A	I	A
Site Inspection	Estimate						
Project 6	Prepare Documents	Estimate	10/17/2021	A	I		
Kitchen Update	Inspection						
Project 8	Site Inspection	In Progress	10/20/2021	C	R	R	C
Project 9	Inspection Notes	Pending	10/21/2021	R	A		
Project 10	Site Survey Meeting	Completed	10/15/2021	A	A		
Project 11	Inspection	In Progress					
	Foundation						
	Marking		11/1/21				
	Every		4/30/21				
	Foundation		11/15/21				

**FEATURE, FIX, OR FOCUS**



*Excel For Freelancers*

## How To Create A Dynamic RACI Matrix In Excel To Manage Unlimited Projects & Tasks



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APPLICATION**



**VIEW  
TRAINING**

*by: Randy Austin*

# ABOUT THE AUTHOR

A two-time Microsoft MVP & lifetime Excel enthusiast, Randy Austin founded Excel For Freelancers in 2017. Excel For Freelancers quickly became the most prominent resource Excel for developers to learn how to turn their passion for Excel into profits by building & selling their own excel-based applications for passive & recurring income.

With nearly 300,000 YouTube subscribers, 14,000,000 video views, 200+ comprehensive training videos, and a thriving 40,000 member Facebook community, Excel For Freelancers has positioned itself as the #1 Excel developers resource in the world.

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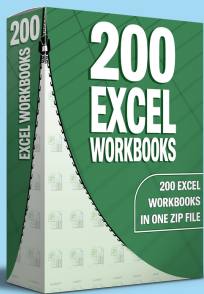
This comprehensive program will take you through a 12-phase process that will turn your enthusiasm for Excel into passive income.

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16 hour masterclass that will teach you the tips, tricks and techniques on how to create a dynamic single-click dashboard, and a ton more

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Projects.....	3
VBAProject .....	3
Documents .....	3
Admin.....	3
(Declarations).....	3
Employees .....	4
(Declarations).....	4
Projects.....	5
(Declarations).....	5
ProjEmpl.....	6
(Declarations).....	6
ProjSkills .....	7
(Declarations).....	7
ProjTaskDB.....	8
(Declarations).....	8
RACI .....	9
(Declarations).....	9
Worksheet_Change [Sub ].....	9
Worksheet_SelectionChange [Sub ] .....	9
RACIDB.....	11
(Declarations).....	11
RACIEmail.....	12
(Declarations).....	12
Worksheet_Change [Sub ].....	12
Worksheet_SelectionChange [Sub ] .....	12
RACIEmpIDB.....	13
(Declarations).....	13
SkillsMatrix .....	14
(Declarations).....	14
Worksheet_Change [Sub ].....	14
Worksheet_SelectionChange [Sub ] .....	14
ThisWorkbook.....	16
(Declarations).....	16
Modules.....	17
Project_Macros .....	17
(Declarations).....	17
Project_Delete [Sub ] .....	17
Project_Load [Sub ].....	17
Project_New [Sub ] .....	19
Project_SaveUpdate [Sub ].....	19
ProjectList_Load [Sub ] .....	20
RACI_Email.....	21
(Declarations).....	21
Email_BrowseAttachment [Sub ] .....	21
Email_Load [Sub ].....	21
RACI_SendEmail [Sub ] .....	21
RACI_Macros .....	23
(Declarations).....	23
RACI_Project_AddEmpl [Sub ].....	23
RACI_Project_DeleteEmpl [Sub ].....	23
RACIRole_Assign [Sub ] .....	24
RACIRole_Clear [Sub ] .....	24
RACI_Tasks.....	26
(Declarations).....	26
RACI_Project_AddUpdateTask [Sub ].....	26
RACI_Project_LoadTasks [Sub ].....	26
RACI_TaskDelete [Sub ] .....	27
RACI_TaskLoad [Sub ] .....	27
RACIProj_Macros.....	28
(Declarations).....	28
RACI_Project_Delete [Sub ] .....	28
RACI_Project_Load [Sub ] .....	28
RACI_Project_LoadRoles [Sub ] .....	29
RACI_Project_New [Sub ] .....	29
RACI_Project_SaveUpdate [Sub ].....	30
RACI_ProjectList_Load [Sub ].....	31

---

SkillMatrix_Macros .....	32
(Declarations).....	32
GenerateOptimalStaff [Sub ] .....	32
GetUniqueTeams [Sub ].....	32
Project_AddEmplOrTeam [Sub ] .....	33
Project_AddSkill [Sub ].....	34
Project_DeleteSkill [Sub ].....	34
Project_RemoveEmployee [Sub ].....	34
SaveAsTeam [Sub ] .....	35
SkillLevel_Down [Sub ] .....	35
SkillLevel_Up [Sub ].....	35

1	Option Explicit
2	

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1	Option Explicit
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1	Option Explicit
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1  Option Explicit
2
3  Private Sub Worksheet_Change(ByVal Target As Range)
4      'On Project Filter Change, load projects
5      If Not Intersect(Target, Range("D4,D5" )) Is Nothing Then RACI_ProjectList_Load
6  End Sub
7
8  Private Sub Worksheet_SelectionChange(ByVal Target As Range)
9      If Shapes("AssignRoleGrp" ).Visible = True Then Shapes("AssignRoleGrp" ).Visible =
10     msoFalse
11     If Shapes("DelEmplBtn" ).Visible = True Then Shapes("DelEmplBtn" ).Visible = msoFalse
12     If Shapes("DelTaskBtn" ).Visible = True Then Shapes("DelTaskBtn" ).Visible = msoFalse
13     'Range("B8,B7").ClearContents 'Clear Sel. Employee & task Rows
14     If Target.CountLarge > 1 Then Exit Sub
15
16     'On Project Selection Load RACI Project
17     If Not Intersect(Target, Range("D8:D99" )) Is Nothing And Range("D" & Target.Row).Value <
18     > Empty Then
19         Dim FoundProj As Range
20         Set FoundProj = Projects.Range("Proj_Name" ).Find(Target.Value, , xlValues, xlWhole)
21         If FoundProj Is Nothing Then
22             MsgBox "Project Not Found"
23             Exit Sub
24         Else
25             Range("B2" ).Value = Target.Row 'Add Select Row Numb.
26             Range("B3" ).Value = Projects.Range("A" & FoundProj.Row).Value 'Set Project ID
27             RACI_Project_Load 'Run Macro to load RACI project
28         End If
29     End If
30
31     'On Task Selection
32     If Not Intersect(Target, Range("F9:H99" )) Is Nothing And Range("F" & Target.Row).Value <
33     > Empty Then
34         Range("B8" ).Value = Target.Row 'Add Selected Row
35         'Show Delete Task Button
36         With Shapes("DelTaskBtn" )
37             .Left = Range("E" & Target.Row).Left
38             .Top = Range("E" & Target.Row).Top
39             .Visible = msoCTrue
40         End With
41         RACI_TaskLoad 'Run macro to load Task
42     End If
43
44     'On Employee Selection
45     If Not Intersect(Target, Range("I6:AD6" )) Is Nothing And Cells(6, Target.Column).Value <>
46     Empty Then
47         Range("B7" ).Value = Target.Column
48         With Shapes("DelEmplBtn" )
49             .Left = Cells(6, Target.Column).Left + 51
50             .Top = Cells(6, Target.Column).Top
51             .Visible = msoCTrue
52         End With
53     End If
54
55     'On Selection change of any RACI Task Role
56     If Not Intersect(Target, Range("I8:AC53" )) Is Nothing Then
57         'Ensure existing task and employee name
58         If Range("F" & Target.Row).Value <> Empty And Cells(6, Target.Column).Value <> Empty
59         Then
60             With Shapes("AssignRoleGrp" )

```

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```
57     1 2 3 4 .Left = Cells(Target.Row, Target.Column + 1).Left
58     .Top = Cells(Target.Row, Target.Column + 1).Top
59     .Visible = msoCTrue
60     End With
61     Range("B14" ).Value = Range("AH" & Target.Row).Value 'Set Task ID
62     Range("B15" ).Value = Cells(101, Target.Column).Value 'Set Employee ID
63     End If
64     End If
65     End Sub
```

1	Option Explicit
2	

```
1 Option Explicit
2
3 Private Sub Worksheet_Change(ByVal Target As Range)
4 'On Email detail change but not on email load
5 If Not Intersect(Target, Range("E3:G14" )) Is Nothing And Range("B1" ).Value = False Then
6 Dim EmailRow As Long, EmailCol As Long
7 If Range("B2" ).Value = Empty Then Exit Sub
8 EmailRow = Range("B2" ).Value 'Email Row
9 On Error Resume Next
10 EmailCol = Range("D36:K36" ).Find(Replace(Target.Address, "$" , "" ), , xlValues,
xlWhole).Column
11 On Error GoTo 0
12 If EmailCol <> 0 Then Cells(EmailRow, EmailCol).Value = Target.Value
13 Range(EmailRow & ":" & EmailRow).WrapText = False
14 End If
15 End Sub
16
17 Private Sub Worksheet_SelectionChange(ByVal Target As Range)
18 If Target.CountLarge > 1 Then Exit Sub
19 If Not Intersect(Target, Range("D17:K35" )) Is Nothing And Range("D" & Target.Row).Value
<> Empty Then
20 Range("B2" ).Value = Target.Row
21 Email_Load
22 End If
23
24 End Sub
```

1	Option Explicit
2	



Option Explicit

Private Sub Worksheet\_Change(ByVal Target As Range)

'On Project Filter Change, load projects

If Not Intersect(Target, Range("D4,D5" )) Is Nothing Then ProjectList\_Load

'On Add Employee By Change

If Not Intersect(Target, Range("F3" )) Is Nothing Then

Range("E4" ).Validation.Delete

Range("E4" ).ClearContents

If Range("F3" ).Value = "Team" Then

GetUniqueTeams 'Run macro to get unique teams

Range("E4" ).Validation.Add xlValidateList, AlertStyle:=xlValidAlertInformation, Formula1:="=Teams"

Else

Range("E4" ).Validation.Add xlValidateList, AlertStyle:=xlValidAlertStop, Formula1:="=Empl\_Name"

End If

End If

'On Skill Level change,

If Not Intersect(Target, Range("G9:AA99" )) Is Nothing And Range("AA" & Target.Row).Value <> Empty And Cells(101, Target.Column).Value <> Empty And Range("B11" ).Value = False

Then

Dim SkillLev As Long, MinSkill As Long, MaxSkill As Long, EmpDBRow As Long, EmpDBCcol As Long

Dim LevRng As Range

SkillLev = Target.Value

On Error Resume Next

Set LevRng = Admin.Range("Levels" )

On Error GoTo 0

If LevRng Is Nothing Then

MsgBox "Please make sure to set levels in the Admin screen"

Exit Sub

End If

MinSkill = Application.WorksheetFunction.Min(LevRng)

MaxSkill = Application.WorksheetFunction.Max(LevRng)

Range("B11" ).Value = True 'Set Skill Change to True

If SkillLev < MinSkill Then

MsgBox "Skill levels cannot go below " & MinSkill

Target.Value = MinSkill

End If

If SkillLev > MaxSkill Then

MsgBox "Skill levels cannot go above " & MaxSkill

Target.Value = MaxSkill

End If

EmpDBRow = Range("AN" & Target.Row).Value 'Employee DB Row

EmpDBCcol = Cells(101, Target.Column).Value 'Employee DB Col

Employees.Cells(EmpDBRow, EmpDBCcol).Value = Target.Value 'Update Employee Level

Range("B11" ).Value = False 'Reset Skill Change to False

End If

End Sub

Private Sub Worksheet\_SelectionChange(ByVal Target As Range)

If Target.CountLarge > 1 Then Exit Sub

If Shapes("DelEmplBtn" ).Visible = True Then Shapes("DelEmplBtn" ).Visible = msoFalse

If Shapes("DelSkillBtn" ).Visible = True Then Shapes("DelSkillBtn" ).Visible = msoFalse

If Shapes("LevelChangeGrp" ).Visible = True Then Shapes("LevelChangeGrp" ).Visible = msoFalse

```

1
56 Range("B7,B8,B9,B10" ).ClearContents 'Clear Selected Skills, Employees & Levels
57 'On Project Selection
58 If Not Intersect(Target, Range("D7:D99" )) Is Nothing And Range("D" & Target.Row).Value <
    > Empty Then
59     Dim FoundProj As Range
60     Set FoundProj = Projects.Range("Proj_Name" ).Find(Target.Value, , xlValues, xlWhole)
61     If FoundProj Is Nothing Then
62         MsgBox "Project Not Found"
63         Exit Sub
64     Else
65         Range("B2" ).Value = Target.Row 'Add Select Row Numb.
66         Range("B3" ).Value = Projects.Range("A" & FoundProj.Row).Value 'Set Project ID
67         Project_Load 'Run Macro to load project
68     End If
69 End If
70
71 'On Employee Selection
72 If Not Intersect(Target, Range("E9:F99" )) Is Nothing And Range("E" & Target.Row).Value <
    > Empty Then
73     Range("B8" ).Value = Target.Row 'Add Selected Row
74     'Show Delete Employee Grp
75     With Shapes("DelEmplBtn" )
76         .Left = Range("E" & Target.Row).Left - 22
77         .Top = Range("E" & Target.Row).Top
78         .Visible = msoCTrue
79     End With
80 End If
81
82 'On Skill Selection
83 If Not Intersect(Target, Range("G6:Z6" )) Is Nothing And Cells(6, Target.Column).Value <>
    Empty Then
84     Range("B7" ).Value = Target.Column
85     With Shapes("DelSkillBtn" )
86         .Left = Cells(6, Target.Column).Left + 37
87         .Top = Cells(6, Target.Column).Top
88         .Visible = msoCTrue
89     End With
90 End If
91
92 'On Skill Level Selection
93 If Not Intersect(Target, Range("G9:Z99" )) Is Nothing And Range("E" & Target.Row).Value <
    > Empty And Cells(6, Target.Column).Value <> "" Then
94     Range("B9" ).Value = Target.Row
95     Range("B10" ).Value = Target.Column
96     With Shapes("LevelChangeGrp" )
97         .Left = Target.Offset(0, 1).Left + 1
98         .Top = Target.Offset(0, 1).Top - 2
99         .Visible = msoCTrue
100    End With
101 End If
102 End Sub

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1	Option Explicit
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1 Option Explicit
2 Dim LastRow As Long, LastResultRow As Long, ResultRow As Long, ProjRow As Long, ProjCol As
Long
3 Dim SkillDBRow As Long, SkillDBCol As Long, SkillRow As Long, SKillCol As Long, LastSkillCol
As Long
4 Dim EmpDBRow As Long, EmpDBCol As Long, EmpRow As Long, EmpCol As Long, LastEmpRow As Long
5 Dim PicFile As String, PicFolder As String, PicPath As String
6 Dim ProjID As String
7 Dim EmpPic As Shape
8
9 Sub Project_Delete()
10 If MsgBox("Are you sure you want to delete this project?" , vbYesNo, "Delete Project" ) =
vbNo Then Exit Sub
11 If SkillsMatrix.Range("B4" ).Value = Empty Then GoTo NotSaved
12 ProjRow = SkillsMatrix.Range("B4" ).Value 'Project Row
13 Projects.Range(ProjRow & ":" & ProjRow).EntireRow.Delete
14 NotSaved:
15 ProjectList_Load 'Reload Proj List
16 Project_New 'Clear Fields
17 End Sub
18
19 Sub Project_Load()
20 With SkillsMatrix
21 If .Range("B4" ).Value = Empty Then
22 MsgBox "Please select a correct project to load"
23 Exit Sub
24 End If
25
26 Application.Calculation = xlCalculationManual
27 Application.ScreenUpdating = False
28
29 .Range("B8,J3:M3,P3:S3,W3,AB3,J4:M4,P4:S4,W4,J5:S5,E9:F99,G6:Z100,AM9:AM99" ).
ClearContents 'Clear Existing Fields
30 'Clear Employee Pictures
31 For Each EmpPic In .Shapes
32 If InStr(EmpPic.Name, "EmployeePic" ) > 0 Then EmpPic.Delete
33 Next EmpPic
34
35 ProjRow = .Range("B4" ).Value 'Project Row
36 For ProjCol = 2 To 9
37 .Range(Projects.Cells(1, ProjCol).Value).Value = Projects.Cells(ProjRow, ProjCol).
Value 'Add from Projects DB
38 Next ProjCol
39
40 'Load Project Skills
41 With ProjSkills
42 LastRow = .Range("A99999" ).End(xlUp).Row
43 If LastRow < 3 Then GoTo NoSkills
44 .Range("A3:F" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
"J2:J3" ), CopyToRange:=.Range("L2:P2" ), Unique:=True
45 LastResultRow = .Range("L99999" ).End(xlUp).Row
46 If LastResultRow < 3 Then GoTo NoSkills
47 SKillCol = 7
48 For ResultRow = 3 To LastResultRow
49 SkillsMatrix.Cells(6, SKillCol).Value = .Range("L" & ResultRow).Value 'Skill
Name
50 SkillsMatrix.Cells(7, SKillCol).Value = .Range("M" & ResultRow).Value 'Skill
Min. Level
51 SkillsMatrix.Cells(8, SKillCol).Value = .Range("N" & ResultRow).Value 'Skill
Min. Staff
52 SkillsMatrix.Cells(100, SKillCol).Value = .Range("P" & ResultRow).Value 'Proj

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1 2 3 4
53 Skill DB Row
54 SkillCol = SkillCol + 1 'Increment Column
55 Next ResultRow
56 SkillsMatrix.Calculate
57 NoSkills:
58 End With
59
60 'Load Project Employees
61 With ProjEmpl
62 LastRow = .Range("A99999").End(xlUp).Row
63 If LastRow < 3 Then GoTo NoEmpl
64 .Range("A3:F" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
65 "J2:J3"), CopyToRange:=.Range("L2:N2"), Unique:=True
66 LastResultRow = .Range("L99999").End(xlUp).Row
67 If LastResultRow < 3 Then GoTo NoEmpl
68 SkillsMatrix.Range("E9:F" & LastResultRow + 6).Value = .Range("L3:M" &
69 LastResultRow).Value 'Bring Over Employees
70 SkillsMatrix.Range("AM9:AM" & LastResultRow + 6).Value = .Range("N3:N" &
71 LastResultRow).Value 'Empl List DB Row
72 If SkillsMatrix.Range("B6").Value = 1 Then SkillsMatrix.Range("F9:F99").
73 NumberFormat = "$0.00" Else SkillsMatrix.Range("F9:F99").NumberFormat = "0"
74 SkillsMatrix.Calculate
75 End With
76 NoEmpl:
77 'Add Employee Picture
78 LastEmpRow = LastResultRow + 6 'Set Last Employee Row
79 PicFolder = Admin.Range("O5").Value & "/" 'Picture Folder
80 For EmpRow = 9 To LastEmpRow
81 If .Range("AN" & EmpRow).Value = "" Then GoTo NextEmp
82 EmpDBRow = .Range("AN" & EmpRow).Value 'Employee DB Row
83 If Employees.Range("G" & EmpDBRow).Value <> Empty Then
84 PicFile = Employees.Range("G" & EmpDBRow).Value 'Picture File Name
85 PicPath = PicFolder & PicFile
86 If Dir(PicPath, vbDirectory) = "" Then GoTo NextEmp
87 .Shapes("EmpSamplePic").Duplicate.Name = "EmployeePic" & EmpRow
88 With .Shapes("EmployeePic" & EmpRow)
89 .Left = SkillsMatrix.Range("E" & EmpRow).Left + 2
90 .Top = SkillsMatrix.Range("E" & EmpRow).Top
91 .Fill.UserPicture (PicPath)
92 End With
93 End If
94 NextEmp:
95 Next EmpRow
96
97 'Load Employee Skills
98 LastSkillCol = .Range("AB6").End(xlToLeft).Column 'Last Skill Column
99 For EmpRow = 9 To LastEmpRow
100 For SkillCol = 7 To LastSkillCol ' Last Skill Column
101 If IsNumeric(.Range("AN" & EmpRow).Value) = True And IsNumeric(.Cells(101,
102 SkillCol).Value) = True Then
103 EmpDBRow = .Range("AN" & EmpRow).Value 'Employee Row
104 EmpDBCol = .Cells(101, SkillCol).Value 'Employee Col (Skills)
105 .Cells(EmpRow, SkillCol).Value = Employees.Cells(EmpDBRow, EmpDBCol).Value
106 'Set Skill Level
107 End If
108 Next SkillCol
109 Next EmpRow
110 .Range("F5").Value = "Team Name" 'Set Deafult Team Name Text
111 If ActiveSheet.CodeName = "SkillsMatrix" Then .Range("J3").Select

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1 2
107 End With
108 Application.Calculation = xlCalculationAutomatic
109 Application.ScreenUpdating = True
110 End Sub
111
112 Sub Project_New()
113 'Clear Employee Pictures
114 For Each EmpPic In SkillsMatrix.Shapes
115     If InStr(EmpPic.Name, "EmployeePic" ) > 0 Then EmpPic.Delete
116 Next EmpPic
117 SkillsMatrix.Range(
    "B2,B3,B7:B10,J3:M3,P3:S3,W3,AB3,J4:M4,P4:S4,W4,J5:S5,E9:F99,G6:Z100,AM9:AM99" ).
    ClearContents
118 End Sub
119 Sub Project_SaveUpdate()
120 With SkillsMatrix
121     If .Range("J3" ).Value = Empty Then
122         MsgBox "Please make sure to assign a Project Name before saving"
123         Exit Sub
124     End If
125     Application.ScreenUpdating = False
126     Application.Calculation = xlCalculationManual
127     If .Range("B4" ).Value = Empty Then 'New Project
128         ProjRow = Projects.Range("A99999" ).End(xlUp).Row + 1
129         .Range("B3" ).Value = .Range("B5" ).Value 'Set Next Project ID
130         Projects.Range("A" & ProjRow).Value = .Range("B3" ).Value 'Set Proj. ID
131     Else 'Existing Project
132         ProjRow = .Range("B4" ).Value 'Existing Project Row
133     End If
134     ProjID = .Range("B3" ).Value 'Project ID
135     For ProjCol = 2 To 9
136         Projects.Cells(ProjRow, ProjCol).Value = .Range(Projects.Cells(1, ProjCol).Value).
            Value 'Add/Update Projects DB
137     Next ProjCol
138
139     'Update Assigned Skills
140     For SkillCol = 7 To 26
141         If .Cells(6, SkillCol).Value = Empty Then Exit For
142         If .Cells(100, SkillCol).Value = Empty Then 'New Skill
143             SkillDBRow = ProjSkills.Range("A99999" ).End(xlUp).Row + 1
144             .Cells(100, SkillCol).Value = SkillDBRow 'Place DB Row
145             ProjSkills.Range("A" & SkillDBRow).Value = ProjID 'Set Project ID
146             ProjSkills.Range("E" & SkillDBRow).Value = SkillCol 'Set Skill Column
147             ProjSkills.Range("F" & SkillDBRow).Value = "=Row()" 'Set DB Row
148         Else 'Existing Skill
149             SkillDBRow = .Cells(100, SkillCol).Value 'Existing Skill DB Row
150         End If
151         ProjSkills.Range("B" & SkillDBRow).Value = .Cells(6, SkillCol).Value 'Skill Item
152         ProjSkills.Range("C" & SkillDBRow).Value = .Cells(7, SkillCol).Value 'Min. Skill
            Level
153         ProjSkills.Range("D" & SkillDBRow).Value = .Cells(8, SkillCol).Value 'Min. Staff @
            Skill level
154     Next SkillCol
155
156     'Update Assigned Employees
157     LastEmpRow = .Range("E99" ).End(xlUp).Row 'Last Employee Row
158     For EmpRow = 9 To LastEmpRow
159         If .Range("AM" & EmpRow).Value = Empty Then 'New Proj Employee
160             EmpDBRow = ProjEmp1.Range("A99999" ).End(xlUp).Row + 1
161             .Range("AM" & EmpRow).Value = EmpDBRow 'Set Proj Emp DB Row
162             ProjEmp1.Range("A" & EmpDBRow).Value = ProjID 'Set Project ID

```

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1 2 3 4
163 ProjEmpl.Range("E" & EmpDBRow).Value = "=Row()" 'Set DB Row
164 ProjEmpl.Range("C1:D1").Copy 'Bring Over Empl. Rate/Position Formulas
165 ProjEmpl.Range("C" & EmpDBRow & ":D" & EmpDBRow).PasteSpecial xlPasteFormulas
    'Paste Rate & Position formulas
166 ProjEmpl.Range("G1").Copy 'Bring Over Empl. Rate/Position Formulas
167 ProjEmpl.Range("G" & EmpDBRow).PasteSpecial xlPasteFormulas 'Paste Total Amount
    formulas
168
169 'Set Updated or Default Project Hours
170 If .Range("B6").Value = 3 And .Range("F" & EmpRow).Value <> "" Then
171     ProjEmpl.Range("F" & EmpDBRow).Value = .Range("F" & EmpRow).Value 'Set To
        Proj Hours
172 Else:
173     .Range("F" & EmpRow).Value = [WorkdayHrs] 'Set Default Workday Hours
174     ProjEmpl.Range("F" & EmpDBRow).Value = [WorkdayHrs] 'Set Default Workday
        Hours
175 End If
176
177 Else 'Existing Proj. Employee
178     EmpDBRow = .Range("AM" & EmpRow).Value 'Employee DB Row
179 End If
180 ProjEmpl.Range("B" & EmpDBRow).Value = .Range("E" & EmpRow).Value 'Employee
    Name
181
182 'Update daily project hours if hours is selected and different from DB
183 If .Range("B6").Value = 3 And ProjEmpl.Range("F" & EmpDBRow).Value <> .Range("F"
    & EmpRow).Value Then
184     ProjEmpl.Range("F" & EmpDBRow).Value = .Range("F" & EmpRow).Value 'Update
        Hours if applicable
185 End If
186 Next EmpRow
187 If .Range("B2").Value <> "" Then .Range("D" & .Range("B2").Value).Value = .Range(
    "J3").Value 'Update Project Name
188 Application.ScreenUpdating = True
189 Application.Calculation = xlCalculationAutomatic
190 End With
191 End Sub
192
193 Sub ProjectList_Load()
194 SkillsMatrix.Range("B2,D7:D999").ClearContents 'Clear Existing Projects
195 With Projects
196     LastRow = .Range("A99999").End(xlUp).Row
197     If LastRow < 3 Then Exit Sub
198     .Range("A3:I" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range("M2:N3"),
        CopyToRange:=.Range("Q2"), Unique:=True
199     LastResultRow = .Range("Q99999").End(xlUp).Row
200     If LastResultRow < 3 Then Exit Sub
201     SkillsMatrix.Range("D7:D" & LastResultRow + 4).Value = .Range("Q3:Q" & LastResultRow)
        .Value 'List Of Project Names
202 End With
203 End Sub

```

```

1  Option Explicit
2  Dim AttFile As FileDialog
3  Dim OutApp As Object, OutMail As Object
4  Dim EmailRow As Long, EmailCol As Long, VarRow As Long, LastRow As Long, ResultRow As Long,
   LastResultRow As Long
5  Sub Email_BrowseAttachment()
6      Set AttFile = Application.FileDialog(msoFileDialogFilePicker)
7      With AttFile
8          .Title = "Browse for file to attach"
9          .Filters.Add "Select any file" , "*.*" , 1
10         .AllowMultiSelect = False
11         If .Show <> -1 Then GoTo NoSelection
12         RACIEmail.Range("E5" ).Value = .SelectedItems(1)
13         NoSelection:
14     End With
15 End Sub
16
17 Sub Email_Load()
18     With RACIEmail
19         If .Range("B2" ).Value = Empty Then Exit Sub
20         EmailRow = .Range("B2" ).Value
21         'Load Email
22         .Range("B1" ).Value = True
23         For EmailCol = 4 To 11
24             .Range(.Cells(36, EmailCol).Value).Value = .Cells(EmailRow, EmailCol).Value 'Load
               Data
25         Next EmailCol
26         .Range("B1" ).Value = False
27     End With
28 End Sub
29
30 Sub RACI_SendEmail()
31     With RACIEmail
32         Dim Subj As String, Mess As String, EmailTo As String, CCTo As String, CCEmails As
           String, FileName As String
33         If .Range("B2" ).Value = Empty Then Exit Sub
34         'Email_Load 'Run Macro To Load Email
35         EmailTo = .Range("E7" ).Value 'Email To
36         CCTo = .Range("G7" ).Value 'CC To
37         FileName = .Range("E5" ).Value 'File Attachment
38         Subj = .Range("E8" ).Value 'Subject
39         Mess = .Range("E9" ).Value 'Email Message
40         'Set CC To
41         Select Case CCTo
42         Case Is = "All Project Employees"
43             LastRow = RACIEmplDB.Range("A99999" ).End(xlUp).Row
44             If LastRow < 4 Then GoTo NoData
45             RACIEmplDB.Range("R3:S999" ).ClearContents 'Clear Prior Results
46             RACIEmplDB.Range("A3:E" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=
               RACIEmplDB.Range("P2:P3" ), CopyToRange:=RACIEmplDB.Range("R2" ), Unique:=True
47             LastResultRow = RACIEmplDB.Range("R99999" ).End(xlUp).Row
48             If LastResultRow < 3 Then GoTo NoData
49             RACIEmplDB.Range("S3:S" & LastResultRow).Formula = RACIEmplDB.Range("S1" ).Formula
               'Bring Over Employee Emails
50             For ResultRow = 3 To LastResultRow
51                 CCEmails = CCEmails & ";" & RACIEmplDB.Range("S" & ResultRow).Value 'Add
                   Emails
52             Next ResultRow
53         Case Is = "All Task Employees"
54             LastRow = RACIDB.Range("A99999" ).End(xlUp).Row
55

```

1 2 3



```

1 2 3
56 If LastRow < 4 Then GoTo NoData
57 RACIDB.Range("R3:S999").ClearContents 'Clear Prior Results
58 RACIDB.Range("A3:E" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=RACIDB.
Range("W2:X3"), CopyToRange:=RACIDB.Range("Z2"), Unique:=True
59 LastResultRow = RACIDB.Range("Z99999").End(xlUp).Row
60 If LastResultRow < 3 Then GoTo NoData
61 RACIDB.Range("AA3:AA" & LastResultRow).Formula = RACIDB.Range("AA1").Formula
'Bring Over Employee Emails
62 For ResultRow = 3 To LastResultRow
63 CCEmails = CCEmails & ";" & RACIDB.Range("AA" & ResultRow).Value 'Add Emails
64 Next ResultRow
65
66 Case Is = "Task-Only Accountable", "Task-Only Responsible", "Task-Resp. & Account.",
"Task-All Consulted", "Task-All Informed"
67 LastRow = RACIDB.Range("A99999").End(xlUp).Row
68 If LastRow < 4 Then GoTo NoData
69 RACIDB.Range("R3:S999").ClearContents 'Clear Prior Results
70 RACIDB.Range("A3:E" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=RACIDB.
Range("W2:Y3"), CopyToRange:=RACIDB.Range("Z2"), Unique:=True
71 LastResultRow = RACIDB.Range("Z99999").End(xlUp).Row
72 If LastResultRow < 3 Then GoTo NoData
73 RACIDB.Range("AA3:AA" & LastResultRow).Formula = RACIDB.Range("AA1").Formula
'Bring Over Employee Emails
74 For ResultRow = 3 To LastResultRow
75 CCEmails = CCEmails & ";" & RACIDB.Range("AA" & ResultRow).Value 'Add Emails
76 Next ResultRow
77
78 End Select
79 NoData:
80 'Update Variables
81 For VarRow = 8 To 19
82 EmailTo = Replace(EmailTo, .Range("A" & VarRow).Value, .Range("B" & VarRow).Value)
83
84 Subj = Replace(Subj, .Range("A" & VarRow).Value, .Range("B" & VarRow).Value)
'Update Variables in Subject
84 Mess = Replace(Mess, .Range("A" & VarRow).Value, .Range("B" & VarRow).Value)
'Update variables in Message
85 Next VarRow
86 Set OutApp = CreateObject("Outlook.Application")
87 Set OutMail = OutApp.CreateItem(0)
88 With OutMail
89 .To = EmailTo
90 .cc = CCEmails
91 .Subject = Subj
92 .Body = Mess
93 If FileName <> Empty Then
94 If Dir(FileName, vbDirectory) <> "" Then .attachments.Add FileName
95 End If
96 If RACIEmail.Range("G6").Value = "Display First" Then .Display Else .Send
97 End With
98 End With
99 End Sub

```

```

1 Option Explicit
2 Dim EmplCol As Long, RACIEmplRow As Long, TaskRow As Long, TaskDBRow As Long, TaskID As Long
3 Dim RoleDBRow As Long, EmailRow As Long
4 Dim Role As String
5 Dim FoundEmplRng As Range
6
7 Sub RACI_Project_AddEmpl()
8     With RACI
9         EmplCol = .Range("AC6").End(xlToLeft).Column + 1
10        If EmplCol < 9 Then EmplCol = 9 'Set min Employee Column
11        If EmplCol > 29 Then 'Max Employees already present
12            MsgBox "A maximum of 21 Employee can be added"
13            Exit Sub
14        End If
15        If .Range("AD5").Value = Empty Then
16            MsgBox "Make sure to select an Employee before adding it to the Employee project"
17            Exit Sub
18        End If
19        'Check For Existing Employee
20        Set FoundEmplRng = .Range("I6:AC6").Find(.Range("AD5").Value, , xlValues, xlWhole)
21        If Not FoundEmplRng Is Nothing Then 'Employee already exists
22            MsgBox "This Employee has already been added to the project"
23            .Cells(6, FoundEmplRng.Column).Select
24            Exit Sub
25        End If
26
27        .Cells(6, EmplCol).Value = .Range("AD5").Value 'Add Employee
28        .Cells(101, EmplCol).Value = .Range("B13").Value 'Set Employee ID
29
30        'Check For Email Automation
31        If .Range("B24").Value <> Empty Then
32            EmailRow = .Range("B24").Value 'Email Row
33            If RACIEmail.Range("D" & EmailRow).Value = "Active" Then
34                RACIEmail.Range("B2").Value = EmailRow
35                Email_Load 'Load Email Details
36                RACI_SendEmail 'Send Email
37            End If
38        End If
39
40
41        RACI_Project_SaveUpdate
42        RACI_Project_Load
43    End With
44 End Sub
45
46 Sub RACI_Project_DeleteEmpl()
47     With RACI
48         If .Range("B7").Value = Empty Then Exit Sub
49         EmplCol = .Range("B7").Value 'Set Employee column
50         .Cells(6, EmplCol).ClearContents 'Clear Emp Name
51         .Cells(101, EmplCol).ClearContents 'Clear Emp ID
52         If .Cells(100, EmplCol).Value <> Empty Then 'Delete DB Row
53             RACIEmplRow = .Cells(100, EmplCol).Value 'Employee DB Row
54             RACIEmplDB.Range(RACIEmplRow & ":" & RACIEmplRow).Delete 'Delete DB Row
55             .Cells(100, EmplCol).ClearContents 'Clear DB Row
56         End If
57         .Shapes("DelEmplBtn").Visible = msoFalse
58         .Range("B7").ClearContents
59         RACI_Project_SaveUpdate
60         RACI_Project_Load
61     End With

```

```

1
62 End Sub
63
64
65 Sub RACIRole_Assign()
66 With RACI
67 ActiveCell.Value = Replace(Application.Caller, "Role_", "" )
68 .Shapes("AssignRoleGrp" ).Visible = msoFalse
69 'Add/Update RACI Role DB
70 If RACI.Range("B17" ).Value = "" Or RACI.Range("B17" ).Value = 0 Then 'New RACI DB
71 Row
72 RoleDBRow = RACIDB.Range("A99999" ).End(xlUp).Row + 1 'First Available Row
73 RACIDB.Range("F" & RoleDBRow).Value = "=Row()" 'Set DB Row
74 Else
75 RoleDBRow = RACI.Range("B17" ).Value 'Role DB Row
76 End If
77 RACIDB.Range("A" & RoleDBRow).Value = .Range("B3" ).Value 'Proj. ID
78 RACIDB.Range("B" & RoleDBRow).Value = .Range("AH" & ActiveCell.Row).Value 'Task ID
79 RACIDB.Range("C" & RoleDBRow).Value = .Cells(101, ActiveCell.Column).Value 'Employee
80 ID
81 RACIDB.Range("D" & RoleDBRow).Value = .Cells(6, ActiveCell.Column).Value 'Employee
82 Name
83 RACIDB.Range("E" & RoleDBRow).Value = ActiveCell.Value
84
85 'Check For Email Automation
86 Role = ActiveCell.Value 'Set Roles
87 Select Case Role
88 Case Is = "R"
89 If .Range("B25" ).Value <> Empty Then EmailRow = .Range("B25" ).Value 'Email Row
90 Case Is = "A"
91 If .Range("B26" ).Value <> Empty Then EmailRow = .Range("B26" ).Value 'Email Row
92 Case Is = "RA"
93 If .Range("B27" ).Value <> Empty Then EmailRow = .Range("B27" ).Value 'Email Row
94 Case Is = "C"
95 If .Range("B28" ).Value <> Empty Then EmailRow = .Range("B28" ).Value 'Email Row
96 Case Is = "I"
97 If .Range("B29" ).Value <> Empty Then EmailRow = .Range("B29" ).Value 'Email Row
98 End Select
99 If EmailRow <> 0 Then
100 If RACIEmail.Range("D" & EmailRow).Value = "Active" Then
101 RACIEmail.Range("B2" ).Value = EmailRow
102 Email_Load 'Load Email Details
103 RACI_SendEmail 'Send Email
104 End If
105 End If
106 .Range("G3" ).Select
107 End With
108 End Sub
109
110 Sub RACIRole_Clear()
111 With RACI
112 ActiveCell.ClearContents
113 .Shapes("AssignRoleGrp" ).Visible = msoFalse
114 'Add/Update RACI Role DB
115 If .Range("B17" ).Value = "" Or .Range("B17" ).Value = 0 Then Exit Sub
116 RoleDBRow = RACI.Range("B17" ).Value 'Role DB Row
117 RACIDB.Range("A" & RoleDBRow).Value = .Range("B3" ).Value 'Proj. ID
118 RACIDB.Range("B" & RoleDBRow).Value = .Range("AH" & ActiveCell.Row).Value 'Task ID
119 RACIDB.Range("C" & RoleDBRow).Value = .Cells(101, ActiveCell.Column).Value 'Employee
120 ID
121 RACIDB.Range("D" & RoleDBRow).Value = .Cells(6, ActiveCell.Column).Value 'Employee

```

1 2

```
1 2
Name
119 RACIDB.Range("E" & RoleDBRow).ClearContents
120 .Range("G3" ).Select
121 End With
122 End Sub
```

```

1 Option Explicit
2 Dim LastRow As Long, LastResultRow As Long, ResultRow As Long, ProjRow As Long, ProjCol As
Long, EmailRow As Long
3 Dim RACIEmplRow As Long, TaskDBRow As Long, TaskRow As Long, EmplCol As Long, LastEmplCol As
Long, TaskID As Long
4
5 Sub RACI_Project_AddUpdateTask()
6     With RACI
7         If .Range("G3" ).Value = Empty Or .Range("G4" ).Value = Empty Then
8             MsgBox "Please make sure to add in a Task Name & Task Type/ Category"
9             Exit Sub
10        End If
11
12        If .Range("B10" ).Value = Empty Then 'New Task
13            TaskID = .Range("B11" ).Value 'Next Task ID
14            TaskDBRow = ProjTaskDB.Range("A99999" ).End(xlUp).Row + 1 '1st avail row
15            .Range("AH" & TaskRow).Value = TaskID
16            ProjTaskDB.Range("A" & TaskDBRow).Value = TaskID
17            ProjTaskDB.Range("B" & TaskDBRow).Value = .Range("B3" ).Value 'Set Proj ID
18            ProjTaskDB.Range("G" & TaskDBRow).Value = "=Row()" 'Set DB Row
19        Else 'Existing Task
20            TaskDBRow = .Range("B10" ).Value 'Task DB Row
21        End If
22        ProjTaskDB.Range("C" & TaskDBRow).Value = .Range("G3" ).Value 'Project Name
23        ProjTaskDB.Range("D" & TaskDBRow).Value = .Range("G4" ).Value 'Category
24        ProjTaskDB.Range("E" & TaskDBRow).Value = .Range("G5" ).Value 'Status
25        ProjTaskDB.Range("F" & TaskDBRow).Value = .Range("I5" ).Value 'Due Date
26
27        'Check For Email Automation
28        If .Range("B23" ).Value <> Empty Then
29            EmailRow = .Range("B23" ).Value 'Email Row
30            If RACIEmail.Range("D" & EmailRow).Value = "Active" Then
31                RACIEmail.Range("B2" ).Value = EmailRow
32                Email_Load 'Load Email Details
33                RACI_SendEmail 'Send Email
34            End If
35        End If
36
37        RACI_Project_Load 'Reload Project
38    End With
39 End Sub
40
41 Sub RACI_Project_LoadTasks()
42     With RACI
43         .Range("E8:AC99,AH8:AH99" ).ClearContents 'Clear Existing Data
44         If .Range("B3" ).Value = Empty Then Exit Sub
45         TaskRow = 8 'Set Intial task Row
46     End With
47     With ProjTaskDB
48         LastRow = .Range("A99999" ).End(xlUp).Row
49         If LastRow < 4 Then Exit Sub
50         'Get Unique Categories
51         .Range("B3:D" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range("K2:K3" ),
CopyToRange:=.Range("P2" ), Unique:=True 'Unique Proj. Categories
52         LastResultRow = .Range("P99999" ).End(xlUp).Row
53         If LastResultRow < 3 Then Exit Sub
54         For ResultRow = 3 To LastResultRow
55             .Range("M3" ).Value = .Range("P" & ResultRow).Value 'Set Category Criteria
56             .Range("A3:G" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
"K2:M3" ), CopyToRange:=.Range("S2:W2" ), Unique:=True
57             LastResultRow = .Range("S99999" ).End(xlUp).Row

```

1 2 3

```

1 2 3
58 If LastResultRow < 3 Then GoTo NextCat
59 RACI.Range("E" & TaskRow).Value = .Range("M3" ).Value 'Set Category
60 TaskRow = TaskRow + 1 'Increment task Row
61 RACI.Range("F" & TaskRow & ":H" & TaskRow + LastResultRow - 3).Value = .Range(
    "T3:V" & LastResultRow).Value 'Add Task, Status & Due Date
62 RACI.Range("AH" & TaskRow & ":AH" & TaskRow + LastResultRow - 3).Value = .Range(
    "W3:W" & LastResultRow).Value 'Task ID
63 TaskRow = TaskRow + LastResultRow - 2 'Update task Row
64 NextCat:
65 Next ResultRow
66 RACI.Range("B8,B9,G3:H3,G4:H4,G5,I5:K5" ).ClearContents 'Clear Task Details
67 RACI.Shapes("DelTaskBtn" ).Visible = msoFalse 'Hide Delete task Button
68 End With
69 End Sub
70
71 Sub RACI_TaskDelete()
72 With RACI
73 If MsgBox("Are you sure you want to delete this task?" , vbYesNo, "Delete Task" ) =
    vbNo Then Exit Sub
74 If .Range("B10" ).Value = Empty Then Exit Sub
75 TaskDBRow = .Range("B10" ).Value 'Task DB Row
76 ProjTaskDB.Range(TaskDBRow & ":" & TaskDBRow).EntireRow.Delete
77 RACI_Project_Load ' Reload Project
78 End With
79 End Sub
80
81 Sub RACI_TaskLoad()
82 With RACI
83 If .Range("B8" ).Value = Empty Then Exit Sub
84 TaskRow = .Range("B8" ).Value
85 If .Range("AH" & TaskRow).Value = Empty Then Exit Sub 'Exit on no task ID
86 .Range("B9" ).Value = .Range("AH" & .Range("B8" ).Value).Value 'Add Task ID
87 .Range("G3" ).Value = .Range("F" & TaskRow).Value 'Task Name
88 .Range("G4" ).Value = ProjTaskDB.Range("D" & .Range("B10" ).Value).Value 'Task
    Category (comes from Task DB)
89 .Range("G5" ).Value = .Range("G" & TaskRow).Value 'Task Status
90 .Range("I5" ).Value = .Range("H" & TaskRow).Value 'Task Due Date
91 End With
92 End Sub

```

```

1 Option Explicit
2 Dim LastRow As Long, LastResultRow As Long, ResultRow As Long, ProjRow As Long, ProjCol As
Long, EmailRow As Long
3 Dim RACIEmplRow As Long, TaskDBCole As Long, TaskRow As Long, EmplCol As Long, LastEmplCol As
Long
4 Dim EmpDBRow As Long, EmpDBCole As Long, LastEmplRow As Long
5 Dim PicFile As String, PicFolder As String, PicPath As String, EmplID As String, TaskID As
String
6 Dim ProjID As String
7 Dim EmpPic As Shape
8
9 Sub RACI_Project_Delete()
10 If MsgBox("Are you sure you want to delete this project?" , vbYesNo, "Delete Project" ) =
vbNo Then Exit Sub
11 If RACI.Range("B4" ).Value = Empty Then GoTo NotSaved
12 ProjRow = RACI.Range("B4" ).Value 'Project Row
13 Projects.Range(ProjRow & ":" & ProjRow).EntireRow.Delete
14 NotSaved:
15 RACI_ProjectList_Load 'Reload Project List
16 RACI_Project_New 'Clear Fields
17 End Sub
18
19
20 Sub RACI_Project_Load()
21 With RACI
22 .Range(
23 "B7:B8,G3:H3,P3:U3,Z3:AC3,G4:H4,P4:U4,Z4:AC4,G5,I5:K5,P5:Y5,AD5:AE5,I6:AC6,E9:AC99,AH9:A
H99,I100:AC101" ).ClearContents
24 'Clear Employee Pictures
25 For Each EmpPic In .Shapes
26 If InStr(EmpPic.Name, "EmployeePic" ) > 0 Then EmpPic.Delete
27 Next EmpPic
28 If .Range("B4" ).Value = Empty Then
29 MsgBox "Please select a correct project to load"
30 Exit Sub
31 End If
32 Application.Calculation = xlCalculationManual
33 Application.ScreenUpdating = False
34
35 'Load Project Details
36 ProjRow = .Range("B4" ).Value 'Project Row
37 .Range("P3" ).Value = Projects.Range("B" & ProjRow).Value 'Project Name
38 .Range("Z3" ).Value = Projects.Range("C" & ProjRow).Value 'Type
39 .Range("P4" ).Value = Projects.Range("E" & ProjRow).Value 'Manager
40 .Range("Z4" ).Value = Projects.Range("F" & ProjRow).Value 'Status
41 .Range("P5" ).Value = Projects.Range("H" & ProjRow).Value 'Description
42
43 RACI_Project_LoadTasks 'Load Project Tasks
44
45 'Load Project Employees & Pictures
46 With RACIEmplDB
47 LastRow = .Range("A99999" ).End(xlUp).Row
48 If LastRow < 4 Then GoTo NoEmpl
49 .Range("A3:F" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
50 "H2:H3" ), CopyToRange:=.Range("J2:M2" ), Unique:=True
51 LastResultRow = .Range("J99999" ).End(xlUp).Row
52 If LastResultRow < 3 Then GoTo NoEmpl
53 'Add Employee Pictures
54 EmplCol = 9 'Set Intial Employee Column
55 PicFolder = Admin.Range("O5" ).Value & "/" 'Employee Picture Folder
56 For ResultRow = 3 To LastResultRow

```

1 2 3 4

```

1 2 3 4
55 RACI.Cells(6, EmplCol).Value = .Range("J" & ResultRow).Value 'Bring Over
Employee Names/Position
56 RACI.Cells(101, EmplCol).Value = .Range("L" & ResultRow).Value 'Employee ID
57 RACI.Cells(100, EmplCol).Value = .Range("M" & ResultRow).Value 'Empl List DB
Row
58 If .Range("K" & ResultRow).Value = "" Then GoTo NextEmp
59 PicFile = .Range("K" & ResultRow).Value 'Picture File Name
60 PicPath = PicFolder & PicFile
61 If Dir(PicPath, vbDirectory) = "" Then GoTo NextEmp
62 RACI.Shapes("EmpSamplePic" ).Duplicate.Name = "EmployeePic" & EmplCol
63 With RACI.Shapes("EmployeePic" & EmplCol)
64 .Left = RACI.Cells(7, EmplCol).Left + 2
65 .Top = RACI.Cells(7, EmplCol).Top + 2
66 .Fill.UserPicture (PicPath)
67 End With
68 NextEmp:
69 EmplCol = EmplCol + 1
70 Next ResultRow
71 NoEmpl:
72 End With
73 RACI_Project_LoadRoles 'Load RACI Roles
74 Application.Calculation = xlCalculationAutomatic
75 Application.ScreenUpdating = True
76 End With
77 End Sub
78 Sub RACI_Project_LoadRoles()
79 With RACIDB
80 .Range("N4:T99999" ).ClearContents
81 LastRow = .Range("A99999" ).End(xlUp).Row
82 If LastRow < 4 Then GoTo NoRoles
83 .Range("A3:F" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range("I2:I3" ),
CopyToRange:=.Range("N2:R2" ), Unique:=True
84 LastResultRow = .Range("N99999" ).End(xlUp).Row
85 If LastResultRow < 3 Then GoTo NoRoles
86 .Range("S3:T" & LastResultRow).Formula = .Range("S1:T1" ).Formula 'Copy Row & Column
Formulas
87 .Calculate
88 For ResultRow = 3 To LastResultRow
89 TaskID = .Range("N" & ResultRow).Value 'Task ID
90 EmplID = .Range("O" & ResultRow).Value 'Employee ID
91 TaskRow = .Range("S" & ResultRow).Value 'Task Row
92 EmplCol = .Range("T" & ResultRow).Value 'Employee Column
93
94 If TaskRow <> 0 And EmplCol <> 0 Then RACI.Cells(TaskRow, EmplCol).Value = .Range(
"Q" & ResultRow).Value 'Set RACI Role
95 Next ResultRow
96 If ActiveSheet.CodeName = "RACI" Then RACI.Range("G3" ).Select
97 NoRoles:
98 End With
99 End Sub
100
101
102 Sub RACI_Project_New()
103 'Clear Employee Pictures
104 For Each EmpPic In RACI.Shapes
105 If InStr(EmpPic.Name, "EmployeePic" ) > 0 Then EmpPic.Delete
106 Next EmpPic
107 RACI.Range(
"B2,B3,B7:B8,G3:H3,P3:U3,Z3:AC3,G4:H4,P4:U4,Z4:AC4,G5,I5:K5,P5:Y5,AD5:AE5,I6:AC6,E9:AC99,AH
9:AH99,I100:AC101" ).ClearContents
108 End Sub

```



```

109 Sub RACI_Project_SaveUpdate()
110 With RACI
111     If .Range("P3").Value = Empty Then
112         MsgBox "Please make sure to assign a Project Name before saving"
113         Exit Sub
114     End If
115     Application.ScreenUpdating = False
116     Application.Calculation = xlCalculationManual
117     If .Range("B4").Value = Empty Then 'New Project
118         ProjRow = Projects.Range("A99999").End(xlUp).Row + 1
119         .Range("B3").Value = .Range("B5").Value 'Set Next Project ID
120         Projects.Range("A" & ProjRow).Value = .Range("B3").Value 'Set Proj. ID
121     Else 'Existing Project
122         ProjRow = .Range("B4").Value 'Existing Project Row
123     End If
124     ProjID = .Range("B3").Value 'Project ID
125     Projects.Range("B" & ProjRow).Value = .Range("P3").Value 'Project Name
126     Projects.Range("C" & ProjRow).Value = .Range("Z3").Value 'Type
127     Projects.Range("E" & ProjRow).Value = .Range("P4").Value 'Manager
128     Projects.Range("F" & ProjRow).Value = .Range("Z4").Value 'Status
129     Projects.Range("H" & ProjRow).Value = .Range("P5").Value 'Description
130
131
132     'Update Assigned Employee RACI Roles
133     For EmplCol = 9 To 29
134         If .Cells(6, EmplCol).Value = Empty Then Exit For
135         If .Cells(100, EmplCol).Value = Empty Then 'New Employee RACI Role
136             RACIEmplRow = RACIEmplDB.Range("A99999").End(xlUp).Row + 1
137             .Cells(100, EmplCol).Value = RACIEmplRow 'Place RACI Empl DB Row
138             RACIEmplDB.Range("A" & RACIEmplRow).Value = ProjID 'Set Project ID
139             RACIEmplDB.Range("C1:D1").Copy
140             RACIEmplDB.Range("C" & RACIEmplRow & ":D" & RACIEmplRow).PasteSpecial
141                 xlPasteFormulas 'Paste Employee Position/ Pic Name
142             Application.CutCopyMode = False
143             RACIEmplDB.Range("F" & RACIEmplRow).Value = "=Row()" 'Set DB Row
144         Else 'Existing Employee
145             RACIEmplRow = .Cells(100, EmplCol).Value 'Existing RACI DB Row
146         End If
147         RACIEmplDB.Range("B" & RACIEmplRow).Value = .Cells(6, EmplCol).Value 'Employee
148             Name
149         RACIEmplDB.Range("E" & RACIEmplRow).Value = .Cells(101, EmplCol).Value 'Save
150             Employee ID
151     Next EmplCol
152
153     If .Range("B2").Value <> "" Then .Range("D" & .Range("B2").Value).Value = .Range(
154         "P3").Value 'Update Project Name
155
156     'Check For Email Automation
157     If .Range("B22").Value <> Empty Then
158         EmailRow = .Range("B22").Value 'Email Row
159         If RACIEmail.Range("D" & EmailRow).Value = "Active" Then
160             RACIEmail.Range("B2").Value = EmailRow
161             Email_Load 'Load Email Details
162             RACI_SendEmail 'Send Email
163         End If
164     End If
165
166     Application.ScreenUpdating = True
167     Application.Calculation = xlCalculationAutomatic
168 End With
169 End Sub

```

```
166
167 Sub RACI_ProjectList_Load()
168     RACI.Range("B2,D8:D999").ClearContents 'Clear Existing Projects
169     With Projects
170         LastRow = .Range("A99999").End(xlUp).Row
171         If LastRow < 4 Then Exit Sub
172         .Range("A3:I" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range("O2:P3"),
173             CopyToRange:=.Range("Q2"), Unique:=True
174         LastResultRow = .Range("Q99999").End(xlUp).Row
175         If LastResultRow < 3 Then Exit Sub
176         RACI.Range("D8:D" & LastResultRow + 5).Value = .Range("Q3:Q" & LastResultRow).Value
177         'List Of Project Names
178     End With
179 End Sub
```

```

1 Option Explicit
2 Dim SkillLev As Long, MaxSkill As Long, MinSkill As Long, SkillCol As Long, SkillRow As Long,
SkillsDBRow As Long, EmpDBRow As Long
3 Dim LastRow As Long, LastResultRow As Long, ResultRow As Long, LastEmpRow As Long, EmpRow As
Long, ProjEmpDBRow As Long, StaffQty As Long
4 Dim TeamName As String, EmpName As String
5 Dim LevRng As Range, FoundSkillRng As Range, FoundEmpRng As Range, ExistEmpRng As Range
6
7 Sub GenerateOptimalStaff()
8     With SkillsMatrix
9         Project_SaveUpdate 'Run Macro to save project
10        LastEmpRow = .Range("E99").End(xlUp).Row
11        If LastEmpRow > 8 Then
12            MsgBox "Please remove any existing employees or create a new project to add optimal
staff"
13            Exit Sub
14        End If
15        If .Range("W4").Value < 1 Then
16            MsgBox "Please make sure to add at least 1 required Staff for the project before
generating optimal staff"
17            Exit Sub
18        End If
19        If .Range("G6").Value = Empty Then
20            MsgBox "Make sure to add at least one skill before generating the optimal staff"
21            Exit Sub
22        End If
23
24        StaffQty = .Range("W4").Value 'Staff Qty
25        With Employees
26            On Error Resume Next
27            .Names("Criteria").Delete 'Delete any existing sheet criteria
28            On Error GoTo 0
29
30            LastRow = .Range("A99999").End(xlUp).Row
31            .Range("A2:AB" & LastRow).AdvancedFilter xlFilterCopy, , CopyToRange:=.Range(
"AH2:AJ2" ), Unique:=True
32            LastResultRow = .Range("AH99999").End(xlUp).Row
33            If LastResultRow < 3 Then Exit Sub
34            'Sort Based on Skill Rating
35            With .Sort
36                .SortFields.Clear
37                .SortFields.Add Key:=Employees.Range("AJ3" ), SortOn:=xlSortOnValues, Order:=
xlDescending, DataOption:=xlSortNormal 'Sort Based on HIghest Skill Rating
38                .SetRange Employees.Range("AH3:AJ" & LastResultRow)
39                .Apply
40            End With
41        End With
42        .Range("E9:F" & 9 + StaffQty - 1).Value = Employees.Range("AH3:AI" & 3 + StaffQty - 1
).Value
43        Project_SaveUpdate
44        Project_Load
45    End With
46 End Sub
47 Sub GetUniqueTeams()
48     With Employees
49         LastRow = .Range("A99999").End(xlUp).Row
50         If LastRow < 3 Then Exit Sub
51         On Error Resume Next
52         .Names("Criteria").Delete
53         On Error GoTo 0
54         .Range("E2:E" & LastRow).AdvancedFilter xlFilterCopy, , CopyToRange:=.Range("AE2" ),

```

1 2

```

1 2
Unique:=True
55 End With
56 End Sub
57 Sub Project_AddEmplOrTeam()
58 With SkillsMatrix
59 If .Range("F3").Value = Empty Then
60     MsgBox "Please select an Add Employee By option"
61     Exit Sub
62 End If
63 LastEmpRow = .Range("E99").End(xlUp).Row + 1 'Set Last Employee Row
64 If .Range("F3").Value = "Name" Then
65     If .Range("E4").Value = Empty Then
66         MsgBox "Please select an employee to add"
67         Exit Sub
68     End If
69     'Check For Duplicate Employee
70     Set FoundEmpRng = .Range("E9:E" & LastEmpRow).Find(.Range("E4").Value, , xlValues,
xlWhole)
71     If Not FoundEmpRng Is Nothing Then 'Employee Already Exists
72         MsgBox "Employee already exists within the Employee List below"
73         Exit Sub
74     End If
75     .Range("E" & LastEmpRow).Value = .Range("E4").Value 'Add Employee to First
avail row
76 ElseIf .Range("F3").Value = "Team" Then 'Add Team
77     LastRow = Employees.Range("A99999").End(xlUp).Row
78     If LastRow < 3 Then Exit Sub
79     Employees.Range("A2:AC" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=
Employees.Range("AF2:AF3"), CopyToRange:=Employees.Range("AH2:AI2"), Unique:=True
80     LastResultRow = Employees.Range("AH99999").End(xlUp).Row
81     If LastResultRow < 3 Then Exit Sub
82
83     If LastEmpRow < 9 Then 'No Existing Employees, add entrie team
84         .Range("E" & LastEmpRow & ":F" & LastEmpRow + (LastResultRow - 3)).Value =
Employees.Range("AH3:AI" & LastResultRow).Value 'Add Team
85     Else '(Check If Employees Exists already)
86         .Range("B12").Value = False 'Set Duplicates found to false
87         Set ExistEmpRng = .Range("E9:E" & LastEmpRow)
88         For ResultRow = 3 To LastResultRow
89             EmpName = Employees.Range("AH" & ResultRow).Value 'Employee Name
90             Set FoundEmpRng = ExistEmpRng.Find(EmpName, , xlValues, xlWhole)
91             If FoundEmpRng Is Nothing Then 'Employee Not Found
92                 .Range("E" & LastEmpRow & ":F" & LastEmpRow).Value = Employees.Range(
"AH" & ResultRow & ":AI" & ResultRow).Value 'Bring over Employee and
details
93                 LastEmpRow = LastEmpRow + 1
94             Else 'Duplicates found
95                 .Range("B12").Value = True 'Set Duplicates found to true
96             End If
97         Next ResultRow
98     End If
99
100 End If
101 Project_SaveUpdate
102 Project_Load
103 If .Range("B12").Value = True Then
104     MsgBox "Duplicate Employees were found when adding a new. Only unique employees
were added"
105     .Range("B12").Value = False 'set Duplicates back to false
106 End If
107
1 2

```

```

1 2
108 End With
109 End Sub
110
111
112 Sub Project_AddSkill()
113 With SkillsMatrix
114 SkillCol = .Range("AA6" ).End(xlToLeft).Column + 1
115 If SkillCol < 7 Then SkillCol = 7 'Set min Skill column
116 If SkillCol > 26 Then 'Max Skills already present
117     MsgBox "A maximum of 20 skills can be added"
118     Exit Sub
119 End If
120 If .Range("Z5" ).Value = Empty Then
121     MsgBox "Make sure to select a skill before adding it to the matrix"
122     Exit Sub
123 End If
124 'Check For Existing Skill
125 Set FoundSkillRng = .Range("G6:Z6" ).Find(.Range("Z5" ).Value, , xlValues, xlWhole)
126 If Not FoundSkillRng Is Nothing Then 'Skill already exists
127     MsgBox "This skill has already been added to the project"
128     .Cells(6, FoundSkillRng.Column).Select
129     Exit Sub
130 End If
131
132 .Cells(6, SkillCol).Value = .Range("Z5" ).Value 'Add Skill
133 Project_SaveUpdate
134 Project_Load
135 End With
136 End Sub
137
138 Sub Project_DeleteSkill()
139 With SkillsMatrix
140 If .Range("B7" ).Value = Empty Then Exit Sub
141 SkillCol = .Range("B7" ).Value 'Set Skill column
142 .Cells(6, SkillCol).ClearContents
143 If .Cells(100, SkillCol).Value <> Empty Then 'Delete DB Row
144     SkillsDBRow = .Cells(100, SkillCol).Value 'Skills DB Row
145     ProjSkills.Range(SkillsDBRow & ":" & SkillsDBRow).Delete
146     .Cells(100, SkillCol).ClearContents 'Clear DB Row
147 End If
148 .Shapes("DelSkillBtn" ).Visible = msoFalse
149 .Range("B7" ).ClearContents
150 Project_SaveUpdate
151 Project_Load
152 End With
153 End Sub
154
155 Sub Project_RemoveEmployee()
156 With SkillsMatrix
157 If .Range("B8" ).Value = Empty Then
158     MsgBox "Please select an employee to remove"
159     Exit Sub
160 End If
161 EmpRow = .Range("B8" ).Value 'Selected Employee Row
162 If .Range("AM" & EmpRow).Value <> Empty Then
163     ProjEmpDBRow = .Range("AM" & EmpRow).Value 'Project Employee Database Row
164     ProjEmpl.Range(ProjEmpDBRow & ":" & ProjEmpDBRow).EntireRow.Delete
165     .Shapes("DelEmplBtn" ).Visible = msoFalse
166     Project_Load
167 End If
168 End With

```

1

```

1
169 End Sub
170
171 Sub SaveAsTeam()
172 With SkillsMatrix
173 If .Range("F5").Value = "Team Name" Or .Range("F5").Value = Empty Then
174 MsgBox "Please set a Team Name"
175 .Range("F5").Select
176 Exit Sub
177 End If
178 TeamName = .Range("F5").Value 'Team Name
179
180 If MsgBox("Are you sure you want to save all of the Employees to team " & TeamName &
181 "?", vbYesNo, "Save Team") = vbNo Then Exit Sub
182 LastEmpRow = .Range("E99999").End(xlUp).Row
183 If LastEmpRow < 9 Then
184 MsgBox "Please make sure to add at least 1 employee before saving a team"
185 Exit Sub
186 End If
187 For EmpRow = 9 To LastEmpRow
188 If .Range("AN" & EmpRow).Value <> Empty Then
189 EmpDBRow = .Range("AN" & EmpRow).Value 'Employee Database Row
190 Employees.Range("E" & EmpDBRow).Value = TeamName 'Set /Update Team Name
191 End If
192 Next EmpRow
193 GetUniqueTeams 'Run Macro to get Unique teams
194 If .Range("F3").Value = "Team" Then .Range("E4").Value = TeamName 'Set Team Name
195 .Range("F5").Value = "Team Name" 'Set Default text for enter team name
196 End With
197 End Sub
198
199
200 Sub SkillLevel_Down()
201 SkillLev = ActiveCell.Value
202 On Error Resume Next
203 Set LevRng = Admin.Range("Levels")
204 On Error GoTo 0
205 If LevRng Is Nothing Then
206 MsgBox "Please make sure to set levels in the Admin screen"
207 Exit Sub
208 End If
209 MinSkill = Application.WorksheetFunction.Min(LevRng)
210 If SkillLev <= MinSkill Then
211 MsgBox "Skill levels cannot go below " & MinSkill
212 ActiveCell.Value = MinSkill
213 Else
214 ActiveCell.Value = ActiveCell.Value - 1 'Increment Skill down
215 End If
216 End Sub
217
218 Sub SkillLevel_Up()
219 SkillLev = ActiveCell.Value
220 On Error Resume Next
221 Set LevRng = Admin.Range("Levels")
222 On Error GoTo 0
223 If LevRng Is Nothing Then
224 MsgBox "Please make sure to set levels in the Admin screen"
225 Exit Sub
226 End If
227 MaxSkill = Application.WorksheetFunction.Max(LevRng)
228 If SkillLev >= MaxSkill Then
229 MsgBox "Skill levels cannot go beyond " & MaxSkill

```

```
229     1 2 ActiveCell.Value = MaxSkill
230     } Else
231     ActiveCell.Value = ActiveCell.Value + 1 'Increment Skill
232     End If
233 End Sub
```

**A**

ActiveCell, 24, 35, 36  
 ActiveSheet, 18, 29  
 Add, 14, 21, 22, 32  
 Address, 12  
 Admin, 14, 18, 28, 35  
 AdvancedFilter, 17, 18, 20-22, 26, 28, 29, 31-33  
 AlertStyle, 14  
 AllowMultiSelect, 21  
 Application, 14, 17, 19-21, 24, 28-30, 35  
 Apply, 32  
 attachments, 22  
 AttFile, 21

**B**

Body, 22

**C**

Calculate, 18, 29  
 Calculation, 17, 19, 20, 28-30  
 Caller, 24  
 cc, 22  
 CCEmails, 21, 22  
 CCTo, 21  
 Cells, 9, 10, 12, 14, 15, 17-19, 21, 23, 24, 29, 30, 34  
 Clear, 32  
 ClearContents, 14, 15, 17, 19-29, 31, 34  
 CodeName, 18, 29  
 Column, 9, 10, 12, 14, 15, 18, 23, 24, 34  
 Copy, 20, 30  
 CopyToRange, 17, 18, 20-22, 26, 28, 29, 31-33  
 CountLarge, 9, 12, 14  
 CreateItem, 22  
 CreateObject, 22  
 CriteriaRange, 17, 18, 20-22, 26, 28, 29, 31, 33  
 CutCopyMode, 30

**D**

DataOption, 32  
 Delete, 14, 17, 19, 23, 27-29, 32, 34  
 Dir, 18, 22, 29  
 Display, 22  
 Duplicate, 18, 29

**E**

Email\_BrowseAttachment, 21  
 Email\_Load, 12, 21, 23, 24, 26, 30  
 EmailCol, 12, 21  
 EmailRow, 12, 21, 23, 24, 26, 28, 30  
 EmailTo, 21, 22  
 EmpCol, 17  
 EmpDBCol, 14, 17, 18, 28  
 EmpDBRow, 14, 17-20, 28, 32, 35  
 EmplCol, 23, 26, 28-30  
 EmplID, 28, 29  
 Employees, 14, 18, 32, 33, 35  
 EmpName, 32, 33  
 EmpPic, 17, 19, 28, 29  
 EmpRow, 17-20, 32, 34, 35  
 Empty, 9, 12, 14, 15, 17-19, 21-24, 26-28, 30, 32-35  
 EntireRow, 17, 27, 28, 34  
 ExistEmpRng, 32, 33  
 Explicit, 3-9, 11-14, 16, 17, 21, 23, 26, 28, 32

**F**

FileDialog, 21  
 FileName, 21, 22

Fill, 18, 29  
 Filters, 21  
 Find, 9, 12, 15, 23, 33, 34  
 Formula, 21, 22, 29  
 Formula1, 14  
 FoundEmplRng, 23  
 FoundEmpRng, 32, 33  
 FoundProj, 9, 15  
 FoundSkillRng, 32, 34

**G**

GenerateOptimalStaff, 32  
 GetUniqueTeams, 14, 32, 35

**I**

InStr, 17, 19, 28, 29  
 Intersect, 9, 12, 14, 15  
 IsNumeric, 18

**K**

Key, 32

**L**

LastEmplCol, 26, 28  
 LastEmplRow, 28  
 LastEmpRow, 17-19, 32, 33, 35  
 LastResultRow, 17, 18, 20-22, 26-29, 31-33  
 LastRow, 17, 18, 20-22, 26, 28, 29, 31-33  
 LastSkillCol, 17, 18  
 Left, 9, 10, 15, 18, 29  
 LevRng, 14, 32, 35

**M**

Max, 14, 35  
 MaxSkill, 14, 32, 35, 36  
 Mess, 21, 22  
 Min, 14, 35  
 MinSkill, 14, 32, 35  
 MsgBox, 9, 14, 15, 17, 19, 23, 26-28, 30, 32-35  
 msoCTrue, 9, 10, 15  
 msoFalse, 9, 14, 23, 24, 27, 34  
 msoFileDialogFilePicker, 21

**N**

Name, 17-19, 28, 29  
 Names, 32  
 NextCat, 27  
 NextEmp, 18, 29  
 NoData, 21, 22  
 NoEmpl, 18, 28, 29  
 NoRoles, 29  
 NoSelection, 21  
 NoSkills, 17, 18  
 NotSaved, 17, 28  
 NumberFormat, 18

**O**

Offset, 15  
 Order, 32  
 OutApp, 21, 22  
 OutMail, 21, 22

**P**

PasteSpecial, 20, 30  
 PicFile, 17, 18, 28, 29  
 PicFolder, 17, 18, 28, 29  
 PicPath, 17, 18, 28, 29  
 ProjCol, 17, 19, 26, 28  
 Project\_AddEmplOrTeam, 33  
 Project\_AddSkill, 34

Project\_Delete, 17  
 Project\_DeleteSkill, 34  
 Project\_Load, 15, 17, 32-34  
 Project\_New, 17, 19  
 Project\_RemoveEmployee, 34  
 Project\_SaveUpdate, 19, 32-34  
 ProjectList\_Load, 14, 17, 20  
 Projects, 9, 15, 17, 19, 20, 28, 30, 31  
 ProjEmpDBRow, 32, 34  
 ProjEmpl, 18-20, 34  
 ProjID, 17, 19, 28, 30  
 ProjRow, 17, 19, 26, 28, 30  
 ProjSkills, 17, 19, 34  
 ProjTaskDB, 26, 27

**R**

RACI, 23, 24, 26-31  
 RACI\_Project\_AddEmpl, 23  
 RACI\_Project\_AddUpdateTask, 26  
 RACI\_Project\_Delete, 28  
 RACI\_Project\_DeleteEmpl, 23  
 RACI\_Project\_Load, 9, 23, 26-28  
 RACI\_Project\_LoadRoles, 29  
 RACI\_Project\_LoadTasks, 26, 28  
 RACI\_Project\_New, 28, 29  
 RACI\_Project\_SaveUpdate, 23, 30  
 RACI\_ProjectList\_Load, 9, 28, 31  
 RACI\_SendEmail, 21, 23, 24, 26, 30  
 RACI\_TaskDelete, 27  
 RACI\_TaskLoad, 9, 27  
 RACIDB, 21, 22, 24, 25, 29  
 RACIEmail, 21-24, 26, 30  
 RACIEmplDB, 21, 23, 28, 30  
 RACIEmplRow, 23, 26, 28, 30  
 RACIRole\_Assign, 24  
 RACIRole\_Clear, 24  
 Range, 9, 10, 12, 14, 15, 17-35  
 Replace, 12, 22, 24  
 ResultRow, 17, 18, 21, 22, 26-29, 32, 33  
 Role, 23, 24  
 RoleDBRow, 23-25  
 Row, 9, 10, 12, 14, 15, 17-22, 24, 26, 28-33, 35

**S**

SaveAsTeam, 35  
 ScreenUpdating, 17, 19, 20, 28-30  
 SelectedItems, 21  
 Send, 22  
 SetRange, 32  
 Shape, 17, 28  
 Shapes, 9, 14, 15, 17-19, 23, 24, 27-29, 34  
 Show, 21  
 SkillCol, 17-19, 32, 34  
 SkillDBCol, 17  
 SkillDBRow, 17, 19  
 SkillLev, 14, 32, 35  
 SkillLevel\_Down, 35  
 SkillLevel\_Up, 35  
 SkillRow, 17, 32  
 SkillsDBRow, 32, 34  
 SkillsMatrix, 17-20, 32-35  
 Sort, 32  
 SortFields, 32  
 SortOn, 32  
 StaffQty, 32  
 Subj, 21, 22  
 Subject, 22

**T**

Target, 9, 10, 12, 14, 15



TaskDBCol, 28  
TaskDBRow, 23, 26, 27  
TaskID, 23, 26, 28, 29  
TaskRow, 23, 26-29  
TeamName, 32, 35  
Title, 21  
Top, 9, 10, 15, 18, 29

## U

Unique, 17, 18, 20-22, 26, 28, 29, 31-33  
UserPicture, 18, 29

## V

Validation, 14  
Value, 9, 10, 12, 14, 15, 17-24, 26-36  
VarRow, 21, 22  
vbDirectory, 18, 22, 29  
vbNo, 17, 27, 28, 35  
vbYesNo, 17, 27, 28, 35  
Visible, 9, 10, 14, 15, 23, 24, 27, 34

## W

WorkdayHrs, 20  
Worksheet\_Change, 9, 12, 14  
Worksheet\_SelectionChange, 9, 12, 14  
WorksheetFunction, 14, 35  
WrapText, 12

## X

xlCalculationAutomatic, 19, 20, 29, 30  
xlCalculationManual, 17, 19, 28, 30  
xlDescending, 32  
xlFilterCopy, 17, 18, 20-22, 26, 28, 29, 31-33  
xlPasteFormulas, 20, 30  
xlSortNormal, 32  
xlSortOnValues, 32  
xlToLeft, 18, 23, 34  
xlUp, 17-22, 24, 26, 28-33, 35  
xlValidAlertInformation, 14  
xlValidAlertStop, 14  
xlValidateList, 14  
xlValues, 9, 12, 15, 23, 33, 34  
xlWhole, 9, 12, 15, 23, 33, 34

# 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.

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