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1 Public Sub ImportPDW(Optional DID As Long)
2 Dim nDID As Long
3 Dim VarReturn As Variant
4 '-----Declare all Variables-----
5 Dim PDWfile As String
6 Dim Tmpfile As Variant
7 Dim FileSpecs, FileName As String
8 '-----
9 Dim strSQL As String
10 Dim cn As ADODB.Connection
11 Dim rs As ADODB.Recordset
12 Dim i As Integer
13 Dim RowCount As Long, ColCount As Long
14 '-----
15 Dim debugOn As Boolean
16 Dim totSteps As Long
17 Dim mStartTime As Date, mSeconds As Long, mMin As Long, mMsg As String, mTime As String
18 '-----
19
20 'Check if DID provided as parameter => if not try to get it from main form => if main form not open then exit(cannot proceed)
21 If IsMissing(DID) Then
22     If IsObjectOpen("Form2", acForm) Then
23         If Formhasdata(Forms!Form2) Then
24             nDID = Forms!Form2.DID
25         Else
26             Exit Sub
27         End If
28     Else
29         Exit Sub
30     End If
31 Else
32     nDID = DID
33 End If
34
35 totSteps = 5 'total steps for the process
36 On Error GoTo Error_Handler 'Goto to 'Error_Handler' if error happens
37 Application.CommandBars("Status Bar").visible = True 'Show Status Bar if not visible
38 SysCmd acSysCmdInitMeter, "Initializing.....", totSteps 'initialize the progress
39
40 '=====Step 1
41 'Get file location information from User
42 SysCmd acSysCmdInitMeter, "Please Select File...", totSteps: SysCmd acSysCmdUpdateMeter, 1
43 Dim fd As New clsFileDialog
44 With fd
45     .DefaultExt = ".xlsm"
46     .DefaultDir = Nz(ELookup("uConf_IFP", "qryUserOptions"), GetSpecialFolder(Personal))
47     .DialogTitle = "Please select 'PDW Data Template' file..."
48     .Filter1Suffix = "*.xlsm;*.xlsx"

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49     .Filter1Text = "EXCEL Files (*.XLSM, *.XLSX)"
50     .ShowOpen
51     PDWfile = CStr(fd.FileName)
52 End With
53
54 If PDWfile = "" Then
55     GoTo Exit_Handler
56 End If
57
58 Pause 0.05
59 '====Step 2
60 mStartTime = Now()
61 DoCmd.Hourglass True
62 SysCmd acSysCmdInitMeter, "Getting file Info...", totSteps: SysCmd acSysCmdUpdateMeter, 2
63 FileSpecs = ShowFileInfo(CStr(PDWfile), author:=True)
64
65 '====Step 3
66 SysCmd acSysCmdInitMeter, "Opening connection to File...", totSteps: SysCmd acSysCmdUpdateMeter, 3
67 strSQL = "SELECT * FROM [(K) 3F-DOE$A19:G30];"
68 Set cn = New ADODB.Connection
69 cn.connectionstring = "Provider=Microsoft.ACE.OLEDB.12.0;Data Source=" & PDWfile & ";Extended Properties='Excel 12.0;HDR=YES';"
70
71 On Error GoTo EndPoint
72 cn.Open
73 On Error GoTo CloseConnection
74 Set rs = New ADODB.Recordset
75 rs.ActiveConnection = cn
76 rs.CursorType = adOpenStatic
77 rs.Source = strSQL
78 rs.Open
79 On Error GoTo CloseRecordset
80
81 RowCount = rs.RecordCount
82 If RowCount = 0 Then
83     DoCmd.Hourglass False
84     MsgBox "The query returned no results", vbExclamation, "No Results"
85     rs.Close
86     cn.Close
87     Set rs = Nothing
88     Set cn = Nothing
89     GoTo Exit_Handler
90 End If
91
92 'Get the count of columns returned by the query
93 ColCount = rs.Fields.Count
94
95 '====Step 4
96 'Start Actual Process of data import

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97 On Error GoTo tran_Err 'Dedicated 'On Error' action to Roll back all changes in case of errors
98 DAO.DBEngine.BeginTrans 'Begin DB Transactions
99 SysCmd acSysCmdInitMeter, "Starting Import Process...", totSteps: SysCmd acSysCmdUpdateMeter, 4
100 'Delete old info from 2 tables to replace it with new, user can repeat import on demand
101 CurrentDb.Execute "Delete * FROM DoEPDW WHERE DID=" & nDID & ";", dbFailOnError
102 CurrentDb.Execute "Delete * FROM DoEPDWVCols WHERE DID=" & nDID & ";", dbFailOnError
103 'Start Importing
104 With rs
105     Do While Not .EOF Or .BOF
106         'Import Fixed PDW Columns into Master PDW table
107         CurrentDb.Execute "INSERT INTO DoEPDW (DID,StdOrder,RunOrder,CenterPt,Blocks) Values(" & nDID & "," & !StdOrder &
108         ", " & !RunOrder & ", " & Nz(!CenterPt, 0) & ", " & !Blocks & ")", dbFailOnError
109         'Import Variable PDW Columns into Separate Child Table
110         For i = 4 To ColCount - 1 'Variable Columns start from 5th (Recordset fields always start from 0 so 4th = 5th in
111         actual)
112             With .Fields(i)
113                 CurrentDb.Execute "INSERT INTO DoEPDWVCols (DID,RunOrder,VCol,VColVal) Values(" & nDID & "," & rs!RunOrder
114                 & ", " & Trim(.Name) & ", " & .Value & ")", dbFailOnError
115             End With
116         Next i
117         .MoveNext
118     Loop
119 End With
120 'Update the main History table to indicate that PDW is imported for this DoE
121 CurrentDb.Execute "Update UpdateHistory SET FileSpecsPDW='" & FileSpecs & "', PDW=True WHERE DID=" & nDID & ";",
122 dbFailOnError
123 DAO.DBEngine.CommitTrans 'If we reach here means no errors, Commit all above DB Transactions at once
124
125 rs.Close
126 cn.Close
127 Set rs = Nothing
128 Set cn = Nothing
129
130 On Error GoTo Error_Handler 'Resume back to our global error handler
131 'get total time taken for process
132 mSeconds = DateDiff("s", mStartTime, Now())
133 mMin = mSeconds \ 60
134 If mMin > 0 Then
135     mMsg = mMin & " min "
136     mSeconds = mSeconds - (mMin * 60)
137 Else
138     mMsg = ""
139 End If
140
141 mTime = mMsg & mSeconds & " seconds"
142 If debugOn Then Debug.Print mTime
143
144 '=====Step 5

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141 'Display Message
142 DoCmd.Hourglass False
143 SysCmd acSysCmdInitMeter, "All done....", totSteps: SysCmd acSysCmdUpdateMeter, 5 'Pause 0.5:
144 MsgBox "Data has been Imported Successfully" & vbCr & vbCr & "Time Taken = " & mTime, vbInformation, "Success"
145
146 '====THE END
147 'Update Main Form if open
148 If IsObjectOpen("Form2", acForm) Then
149     SysCmd acSysCmdInitMeter, "Refreshing view...", 1: Pause 0.2
150     Forms!Form2.RequeryInPlace
151     SysCmd acSysCmdUpdateMeter, 1
152 End If
153
154 Exit_Handler:
155     'Whole process always end up here for cleanup and exit
156     'Error Handlers also resume here
157     On Error Resume Next
158     DoCmd.Hourglass False
159     Set fd = Nothing
160     SysCmd acSysCmdRemoveMeter
161     VarReturn = SysCmd(acSysCmdSetStatus, CON.System.AppName)
162     'We exit the Sub here as followings are error handling routines for different situations
163     Exit Sub
164
165 Error_Handler:
166     'Global error Handler
167     DoCmd.Hourglass False
168     MsgBox "Error#" & err.Number & vbCr & err.Description & vbCr & "Source - DoE Import", vbCritical, "Error"
169     Resume Exit_Handler
170
171 tran_Err:
172     'Error Handler when Main DB Transactions fail so we roll back
173     DAO.DBEngine.Rollback
174     DoCmd.Hourglass False
175     MsgBox "DB Transaction failed;" & vbCr & "Error: " & err.Description, vbCritical, "Error!"
176     Resume Exit_Handler
177
178 EndPoint:
179     'If the connection to Excel file failed to open we end up here
180     DoCmd.Hourglass False
181     MsgBox "The connection failed to open." & vbNewLine & vbNewLine & "Error number: " & err.Number & vbNewLine & "Error
182     description: " & err.Description, vbCritical, "Connection Error"
183     Resume Exit_Handler
184
185 CloseConnection:
186     'If the connection to excel file is opened successfully but a runtime error occurs later we end up here
187     DoCmd.Hourglass False
188     cn.Close

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188     Set cn = Nothing
189     MsgBox "An error occurred after the connection was established." & vbNewLine & vbNewLine & "Error number: " & err.Number &
vbNewLine & "Error description: " & err.Description, vbCritical, "Error After Connection Open"
190     Resume Exit_Handler
191
192 CloseRecordset:
193     'If the recordset is opened successfully but a runtime error occurs later we end up here
194     DoCmd.Hourglass False
195     rs.Close
196     cn.Close
197     Set rs = Nothing
198     Set cn = Nothing
199
200     MsgBox PDWfile & vbCr & String(74, "-") & vbCr & "An error occurred after the recordset was opened. There could be
multiple reasons for this error;" & vbCr & vbCr & _
201     "* You accidently selected wrong WorkBook" & vbTab & "[OR]" & vbCr & _
202     "* Selected File is not in proper format as required" & vbTab & "[OR]" & vbCr & _
203     "* Could not find required WorkSheet/Range/Fields" & vbTab & "[OR]" & vbCr & _
204     vbCr & "Please make sure you have choosen correct file!", vbCritical, "Runtime Error"
205     Resume Exit_Handler
206
207 End Sub
```