

## **DateDiff Function vs Datedif Formula**

Option Explicit

' # of Days

Function DateDiff\_Days(start\_date As Date, end\_date As Date) As Long

DateDiff\_Days = DateDiff("D", start\_date, end\_date)

End Function

' # of Months

Function DateDiff\_Months(start\_date As Date, end\_date As Date) As Long

DateDiff\_Months = DateDiff("M", start\_date, end\_date)

End Function

' # of Years

Function DateDiff\_Years(start\_date As Date, end\_date As Date) As Long

If Month(end\_date) < Month(start\_date) Then

    DateDiff\_Years = DateDiff("YYYY", start\_date, end\_date) - 1

Else

    DateDiff\_Years = DateDiff("YYYY", start\_date, end\_date)

End If

End Function

' # of Months after Years

Function DateDiff\_Months\_after\_Years(start\_date As Date, end\_date As Date) As Long

Dim new\_date As Date

If Month(end\_date) < Month(start\_date) Then

    new\_date = DateSerial(Year(end\_date) - 1, Month(start\_date), Day(start\_date))

    DateDiff\_Months\_after\_Years = DateDiff("M", new\_date, end\_date)

Else

    DateDiff\_Months\_after\_Years = Month(end\_date) - Month(start\_date)

End If

End Function

' # of Days after Years

Function DateDiff\_Days\_after\_Years(start\_date As Date, end\_date As Date) As Long

Dim new\_date1 As Date, new\_date2 As Date

If Month(end\_date) < Month(start\_date) Then

    new\_date1 = DateSerial(Year(end\_date) - 1, Month(start\_date), Day(start\_date))

    DateDiff\_Days\_after\_Years = DateDiff("d", new\_date1, end\_date)

Else

    new\_date2 = DateSerial(Year(end\_date), Month(start\_date), Day(start\_date))

    DateDiff\_Days\_after\_Years = DateDiff("d", new\_date2, end\_date)

End If

End Function

### ' Age Calculator

Function Age\_Calculator(start\_date As Date, end\_date As Date) As String

#### 'calculate Years

Dim DateDiff\_Years As Integer

If Month(end\_date) < Month(start\_date) Then

    DateDiff\_Years = DateDiff("YYYY", start\_date, end\_date) - 1

Else

    DateDiff\_Years = DateDiff("YYYY", start\_date, end\_date)

End If

#### 'calculate month

Dim new\_date As Date, DateDiff\_Months\_after\_Years As Integer

If Month(end\_date) < Month(start\_date) Then

    new\_date = DateSerial(Year(end\_date) - 1, Month(start\_date), Day(start\_date))

    DateDiff\_Months\_after\_Years = DateDiff("M", new\_date, end\_date)

Else

    DateDiff\_Months\_after\_Years = Month(end\_date) - Month(start\_date)

End If

#### 'Calculate days

Dim new\_date1 As Date, new\_date2 As Date, DateDiff\_Days\_after\_Years As Integer

If Month(end\_date) < Month(start\_date) Then

    new\_date1 = DateSerial(Year(end\_date) - 1, Month(start\_date), Day(start\_date))

    DateDiff\_Days\_after\_Years = DateDiff("d", new\_date1, end\_date)

Else

    new\_date2 = DateSerial(Year(end\_date), Month(start\_date), Day(start\_date))

    DateDiff\_Days\_after\_Years = DateDiff("d", new\_date2, end\_date)

End If

Age\_Calculator = DateDiff\_Years & "y, " & DateDiff\_Months\_after\_Years & "m, " &

DateDiff\_Days\_after\_Years & "d"

End Function