VBA Examples from Mike Segura

```
' This function evaluates the MAPPER aircraft types and returns

' only 737, 757, Airbus, OR #VALUE.

' [m. segura]


Dim T_Type As String   'temporary type value


Select Case ACFT_Type

    Case Is = 300

        T_Type = "737"

    Case Is = 200

        T_Type = "737"

    Case Is = 320

        T_Type = "Airbus"

    Case Is = 319

        T_Type = "Airbus"

    Case Is = 757

        T_Type = "757"

    Case Else

        T_Type = "#VALUE!"

End Select

HP_Fleet_Type = T_Type   'for export


End Function
```

Public Function BoeingAirbusType(ACFT_Type)

```
' This function evaluates the MAPPER aircraft types and returns
```

```vb
' only 737, 757, Airbus, OR #VALUE.
' [m. segura]


Dim T_Type As String   'temporary type value


Select Case ACFT_Type
    Case Is = 300
        T_Type = "Boeing"
    Case Is = 200
        T_Type = "Boeing"
    Case Is = 320
        T_Type = "Airbus"
    Case Is = 319
        T_Type = "Airbus"
    Case Is = 757
        T_Type = "Boeing"
    Case Else
        T_Type = "#VALUE!"
End Select


BoeingAirbusType = T_Type   'for export


End Function
```

```vb
' This function imports up to a 8 digit "MAPPER-style"
```

' date value and converts it to a Microsoft date value.

' [m. segura]

Dim T_Time As Variant   'temporary time value

' data checking

If MAPPERDATE < 0 Or VBA.IsNumeric(MAPPERDATE) = False Or VBA.Len(MAPPERDATE) > 8 Then

   Convert2Date = "#VALUE!"

Exit Function

End If

Convert2Date = VBA.DateSerial(VBA.Left(MAPPERDATE, 4), VBA.Mid(MAPPERDATE, 5, 2), VBA.Right(MAPPERDATE, 2))

End Function

Public Function Convert2Time(UserTime)

' This function imports up to a 4 digit "MAPPER-style"

' time value and converts it to a decimal time value.

' [m. segura]

Dim T_Time As Variant   'temporary time value

Dim Zero As Integer

Dim Descp As String

   ' data checking

   If UserTime < 0 Or VBA.IsNumeric(UserTime) = False Or VBA.Len(UserTime) > 4 Or _

      VBA.Right(UserTime, 2) > 59 Or UserTime > 2400 Then

      Convert2Time = "#VALUE!"

```vba
        Exit Function


    End If

        If VBA.Len(UserTime) > 0 Then

            Select Case VBA.Len(UserTime)

            Case 1

                T_Time = VBA.TimeSerial(0, VBA.Right(UserTime, 1), 0)

            Case 2

                T_Time = VBA.TimeSerial(0, VBA.Right(UserTime, 2), 0)

            Case 3

                T_Time = VBA.TimeSerial(VBA.Left(UserTime, 1), VBA.Right(UserTime, 2), 0)

            Case 4

                T_Time = VBA.TimeSerial(VBA.Left(UserTime, 2), VBA.Right(UserTime, 2), 0)

            End Select

            Convert2Time = T_Time   'for export

        End If

End Function



Public Function HowManyMinutes(UserTime) As Integer

' This function imports up to a 4 digit "MAPPER-style"

' HHMM value and converts it to summation of minutes.

' [m. segura]



Dim T_Time As Variant   'temporary time value


    ' data checking

    If VBA.IsNumeric(UserTime) = False Or VBA.Len(UserTime) > 5 Or _

        VBA.Right(UserTime, 2) > 59 Or UserTime > 2400 Then

        HowManyMinutes = "#VALUE!"
```

```vba
        Exit Function

    End If

Select Case UserTime
Case Is >= 0
    If VBA.Len(UserTime) > 0 Then
        Select Case VBA.Len(UserTime)
        Case 1
            T_Time = UserTime
        Case 2
            T_Time = UserTime
        Case 3
            T_Time = (VBA.Left(UserTime, 1) * 60) + (VBA.Right(UserTime, 2))
        Case 4
            T_Time = (VBA.Left(UserTime, 2) * 60) + (VBA.Right(UserTime, 2))
        End Select
        HowManyMinutes = T_Time   'for export
    End If
Case Is < 0
    If VBA.Len(UserTime) > 1 Then
        Select Case VBA.Len(UserTime)
        Case 2
            T_Time = UserTime
        Case 3
            T_Time = UserTime
        Case 4
            T_Time = (VBA.Left(UserTime, 2) * 60) + (VBA.Right(UserTime, 2))
        Case 5
```

```vba
        T_Time = (VBA.Left(UserTime, 3) * 60) + (VBA.Right(UserTime, 2))

    End Select

    HowManyMinutes = T_Time   'for export

  End If


End Select

End Function




Public Function WhichPHXDepartBank(UserDate_DepartureTime As Date)
' This function evaluates a date/time combination to determine "
' which bank it belongs to, whether it is winter or summer (PHX Departures use only!!)
' [m. segura]


Dim T_Bank As Variant   'temporary Bank value (Bank1 thru Bank13)


' data checking
If UserDate_DepartureTime < 32874 Or VBA.IsDate(UserDate_DepartureTime) <> True Then
   WhichPHXDepartBank = "#VALUE!"
Exit Function
End If


Select Case Month(UserDate_DepartureTime)
   Case 1 To 3
      GoTo 20
   Case 4
      Select Case Day(UserDate_DepartureTime)
         Case Is <= 5
```

```vbnet
            GoTo 20
        Case Is > 5
            GoTo 10
    End Select
  Case 5 To 9
    GoTo 10
  Case 10
    Select Case Day(UserDate_DepartureTime)
      Case Is < 26
        GoTo 10
      Case Is >= 26
        GoTo 20
    End Select
  Case 11 To 12
    GoTo 20
End Select


'===================================================================
10  'go to here for (Summer = True) from above
Select Case TimeSerial(Hour(UserDate_DepartureTime), Minute(UserDate_DepartureTime), 0)
  Case TimeSerial(0, 0, 0) To TimeSerial(7, 0, 0) '00:00 to 07:00
    T_Bank = "Bank01"
  Case TimeSerial(7, 1, 0) To TimeSerial(8, 0, 0) '07:01 to 08:00
    T_Bank = "Bank02"
  Case TimeSerial(8, 1, 0) To TimeSerial(10, 0, 0) '08:01 to 10:00
    T_Bank = "Bank03"
  Case TimeSerial(10, 1, 0) To TimeSerial(11, 0, 0) '10:01 to 11:00
    T_Bank = "Bank04"
  Case TimeSerial(11, 1, 0) To TimeSerial(13, 0, 0) '11:01 to 13:00
```

```vb
      T_Bank = "Bank05"
    Case TimeSerial(13, 1, 0) To TimeSerial(14, 0, 0) '13:01 to 14:00

      T_Bank = "Bank06"
    Case TimeSerial(14, 1, 0) To TimeSerial(15, 30, 0) '14:01 to 15:30

      T_Bank = "Bank07"
    Case TimeSerial(15, 31, 0) To TimeSerial(16, 30, 0) '15:31 to 16:30

      T_Bank = "Bank08"
    Case TimeSerial(16, 31, 0) To TimeSerial(18, 0, 0) '16:31 to 18:00

      T_Bank = "Bank09"
    Case TimeSerial(18, 1, 0) To TimeSerial(20, 0, 0) '18:01 to 20:00

      T_Bank = "Bank10"
    Case TimeSerial(20, 1, 0) To TimeSerial(21, 0, 0) '20:01 to 21:00

      T_Bank = "Bank11"
    Case TimeSerial(21, 1, 0) To TimeSerial(22, 0, 0) '21:01 to 22:00

      T_Bank = "Bank12"
    Case TimeSerial(22, 1, 0) To TimeSerial(23, 59, 0) '22:01 to 23:59

      T_Bank = "Bank13"
End Select

    WhichPHXDepartBank = T_Bank 'for export
Exit Function


'=================================================================

20  'go to here for (Winter = True) from above
Select Case TimeSerial(Hour(UserDate_DepartureTime), Minute(UserDate_DepartureTime), 0)
    Case TimeSerial(0, 0, 0) To TimeSerial(8, 0, 0) '00:00 to 08:00

      T_Bank = "Bank01"
    Case TimeSerial(8, 1, 0) To TimeSerial(9, 0, 0) '08:01 to 09:00

      T_Bank = "Bank02"
    Case TimeSerial(9, 1, 0) To TimeSerial(11, 0, 0) '09:01 to 11:00
```

```vba
        T_Bank = "Bank03"

    Case TimeSerial(11, 1, 0) To TimeSerial(12, 0, 0) '11:01 to 12:00

        T_Bank = "Bank04"

    Case TimeSerial(12, 1, 0) To TimeSerial(14, 0, 0) '12:01 to 14:00

        T_Bank = "Bank05"

    Case TimeSerial(14, 1, 0) To TimeSerial(15, 0, 0) '14:01 to 15:00

        T_Bank = "Bank06"

    Case TimeSerial(15, 1, 0) To TimeSerial(16, 30, 0) '15:01 to 16:30

        T_Bank = "Bank07"

    Case TimeSerial(16, 31, 0) To TimeSerial(18, 0, 0) '16:31 to 18:00

        T_Bank = "Bank08"

    Case TimeSerial(18, 1, 0) To TimeSerial(19, 0, 0)  '18:01 to 19:00

        T_Bank = "Bank09"

    Case TimeSerial(19, 1, 0) To TimeSerial(21, 0, 0) '19:01 to 21:00

        T_Bank = "Bank10"

    Case TimeSerial(21, 1, 0) To TimeSerial(22, 0, 0) '21:01 to 22:00

        T_Bank = "Bank11"

    Case TimeSerial(22, 1, 0) To TimeSerial(23, 0, 0) '22:01 to 23:00

        T_Bank = "Bank12"

    Case TimeSerial(23, 1, 0) To TimeSerial(23, 59, 0) '23:01 to 23:59

        T_Bank = "Bank13"

End Select

    WhichPHXDepartBank = T_Bank 'for export

Exit Function


End Function


Public Function AC_Tail2Type(ACFT_Type)
' This function evaluates the aircraft numbers and returns
```

```vb
' only 737, 757, Airbus, OR #VALUE.

' [m. segura]


Dim T_Type As String   'temporary type value


Select Case ACFT_Type

   Case Is < "600"

      T_Type = "737"

   Case Is < "700"

      T_Type = "320"

   Case Is < "900"

      T_Type = "319"

   Case Is > "899"

      T_Type = "757"

   Case Else

      T_Type = "#VALUE!"

End Select

AC_Tail2Type = T_Type   'for export


End Function
```

Public Function PivotHour2Hour(PivotHour) As Integer

' This function will change the grouped Pivot Hour into an integer of the real hour

```vba
'   (example: 10 P = 10). Will correct for 24 hour clock.


Dim T_Hour
Dim AM_PM


Select Case VBA.Len(PivotHour)
   Case Is = 4
      T_Hour = VBA.Left(PivotHour, 1)
   Case Is = 5
      T_Hour = VBA.Left(PivotHour, 2)
   Case Else
      T_Hour = "#VALUE!"
End Select


If T_Hour <> "#VALUE!" Then
   Select Case VBA.Right(PivotHour, 2)
      Case Is = "AM"
         AM_PM = 0
      Case Is = "PM"
         AM_PM = 12
   End Select
End If


PivotHour2Hour = T_Hour + AM_PM


If PivotHour2Hour = 12 Then
   PivotHour2Hour = 0
End If
If PivotHour2Hour = 24 Then
```

```
        PivotHour2Hour = 12

    End If


End Function
```