

[Home](#) [x](#) [Install](#) [x](#) [Full Index](#) [x](#) [Tutorial](#) [x](#) [EnumerateControls](#) [x](#) [FindOutTableExists](#) [x](#)
[UseVariablesInSQL](#) [x](#) [CreateRecordsetFrom](#) [x](#) [AddRecordToRecordset](#) [x](#) [CountRecordsRecordset](#) [x](#)
[LimitsRecordset](#) [x](#) [MixAccess2baseAndUNO](#) [!](#) [User's Guide](#) [x](#) [AllForms](#) [x](#) [DatabaseWindow](#) [x](#)
[ShortcutNotationMore](#) [x](#) [DLookupSamples](#) [x](#) [CalculatedField](#) [x](#) [MultiSelectListboxSelectForm](#) [x](#)
[FillAutoControlValue](#) [x](#) [CarryToNewRecord](#) [x](#) [BrowseThruControls](#) [x](#) [TipTextForLongValues](#) [x](#)
[AskBeforeSaving](#) [x](#) [Sync2Combos](#) [x](#) [ZoomOnImage](#) [x](#) [AddAllToBox](#) [x](#) [KeepFormsSynchro](#) [x](#)
[SelectListboxOnFirstLetters](#) [x](#) [MoveItemsBetweenListboxes](#) [x](#) [SimulateTabbed](#) [x](#) [SearchStandalone](#) [x](#)
[CalculatorDialog](#) [x](#) [ExploreTables](#) [x](#) [ExtractDataTable](#) [x](#) [FindPositionRecordset](#) [x](#) [DMedian function](#) [x](#)

DMedian function

(Q) How can I write a function that computes the *median* value of a range of data ?

tags:
[HowTo](#)

(R) The median is the numerical value separating the higher half of a data sample from the lower half. The median of a finite list of numbers can be found by arranging all the observations from lowest value to highest value and picking the middle one. If there is an even number of observations, then there is no single middle value; the median is then usually defined to be the mean of the two middle values. (Wikipedia)

Easily feasible with a **Recordset** object.

The function:

```
Public Function DMedian( _
    psField As String _
    , psTable As String _
    , Optional psWhere As String _
    ) As Variant

Dim sSql As String, oRecordset As Object, vValue1 As Variant, oField As Object
Const cstQuote = """"

    DMedian = Null

    sSql = "SELECT " _
        & cstQuote & psField & cstQuote _
        & " FROM " & cstQuote & psTable & cstQuote _
        & Iif(IsMissing(psWhere), "", " WHERE " & psWhere) _
        & " ORDER BY " & cstQuote & psField & cstQuote
    Set oRecordset = CurrentDb().OpenRecordset(sSql)

    With oRecordset
        .MoveLast()
        If Not .EOF() Then
            Select Case .RecordCount Mod 2
                Case 0
                    ' Even
                    .AbsolutePosition = .RecordCount / 2
                    Set oField = .Fields(psField)
                    vValue1 = oField.Value
                    .MoveNext
                    DMedian = (oField.Value + vValue1) / 2
                Case 1
                    ' Odd
                    .AbsolutePosition = Int(.RecordCount / 2) + 1
                    DMedian = .Fields(psField).Value
            End Select
        End If
        .mClose()
    End With

End Function
```

Example

With next table:

- Products table

Fields	Field Type	Primary
CategoryID	BigInt	
ProductName	Text	
QuantityPerUnit	Text	
ReorderLevel	Integer	
SupplierID	BigInt	
UnitPrice	Number	
UnitsInStock	Integer	
UnitsOnOrder	Integer	
Discontinued	Boolean	
ProductID	BigInt	Y
Picture	Image	

MsgBox DMedian("UnitPrice", "Products")

computes the median value of the *UnitPrice* range of values

See also

Move (recordset)
AbsolutePosition

Refer to ...

Basic module
Records

Bookmark this page » » [DMedian function](#)