

ariaDB - ODBC-Driver with Microsoft DAO

Workarround:

We actually run Xampp (PHP) 7.0.13 with Maria DB 10.1.19 on a Windows 10 Pro server, all tables are utf8 coded.

On the client side we run Win10 Home, Access 2010 or 2016.

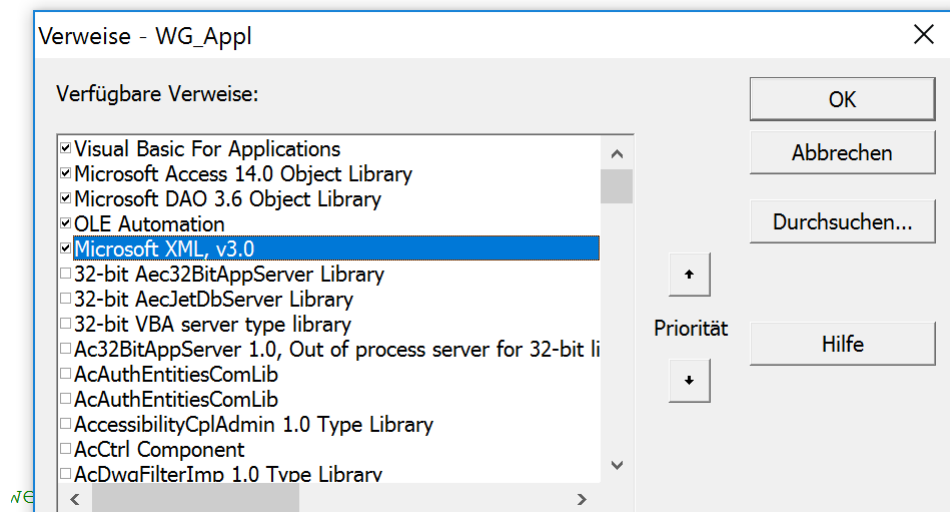
The tables of the database are linked to an MS Access-Application using ODBC connection to he server.

Die ODBC driver works correctly when we view, edit, delete or append data in the Access-application.

But:

We have also the option, to store the data locally and have a routine to update the data off he local database

The code uses Microsoft DAO 3.6 Object Library:



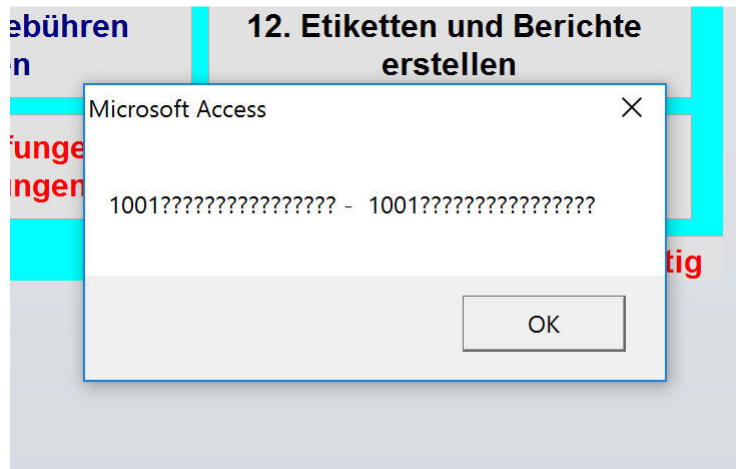
The function in Recordset.Fields(0,1,3,...) returns the data with a wrong codepage.

In the local database we got some „strange“ characters (Cinese, Indian ???) with the MariaDB ODBC driver, but MySQL-ODBC-Treiber 5.3.4 (32bit) to the MariaDB database works correctly.

I added a message box in the code. First field is numeric, following flieds are strings

See the screenshots of the Messagebox:

first: using MariaDB-Connector



second: using mySQL-ODBC-Treiber 5.3.4 (32bit) to the MariaDB database



This is the code:

```
Public Function downloadMit(TabName As String)
'-----
' Herunterladen der Serverdaten in die lokale Datenbank
'-----
Dim TS As Date
Dim FilterTxt, PrimaryTxt(4), SortTxt As String
Dim Txt1 As String
Dim AB As Workspace, db As Database
Set AB = DBEEngine.Workspaces(0)
Set db = AB.Databases(0)
Dim RS, RS1 As DAO.Recordset
Dim QD As QueryDef
Dim Idx As Index, tdf As TableDef, fld As Field, Txt As String

DoCmd.Echo True, "neue Daten werden vom Server geholt ...(" & TabName & ")"
On Error Resume Next
'Schlüsselspalten suchen
Set tdf = db.TableDefs(TabName)
Erase PrimaryTxt
SortTxt = ""
'Indexspalten nach Primärschlüsselspalten durchsuchen
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For Each Idx In tdf.Indexes
  If Idx.Primary Then
    I = 0
    For Each fld In Idx.Fields
      PrimaryTxt(I) = fld.Name
      If I = 0 Then SortTxt = fld.Name Else SortTxt = SortTxt & ", " & fld.Name
      I = I + 1
    Next fld
  End If
Next Idx

' höchsten Timestamp der lokalen Tabelle suchen
TS = "1900-01-01"
On Error Resume Next 'Null abfangen
TS = db.OpenRecordset("SELECT MAX(TS) AS X FROM " & TabName & ");!X
db.Close
On Error GoTo 0

'XXX Abfrage am Server mit TS in where-Klausel erstellen
' Datensätze über Pass-Through-Abfrage vom Server holen
Set QD = db.CreateQueryDef("")
'XXX qd.ReturnsRecords = False

QD.Connect = "ODBC;DSN=wgMit;"
QD.SQL = "SELECT * FROM " & TabName & " WHERE TS > " & Format(TS, "yyyy-mm-dd
hh:nn:ss") & " ORDER BY " & SortTxt & ";";
'XXX qd.SQL = "drop view if exists mist; "
'XXX qd.Execute
'XXX qd.SQL = "create view mist as select * from " & TabName & " where TS > " & Format(ts,
"yyyy-mm-dd-hh:nn:ss") & ";";
'XXX qd.Execute
'XXX qd.Close
Set RS = QD.OpenRecordset 'Neuere Datensätze am Server
If RS.EOF = False Then
  RS.MoveLast
  DoCmd.Echo True, "neue Daten werden vom Server geholt ...(" & TabName & ": " &
RS.RecordCount & " Datensätze)"
  MsgBox TabName & " - " & RS.RecordCount
  RS.MoveFirst
End If

Set RS1 = db.OpenRecordset(TabName) 'Recordset der Zieltabelle
RS1.SORT = SortTxt

' Abarbeiten der einzelnen Datensätze
Do While Not RS.EOF

Txt1 = RS.Fields(0) & RS.Fields(1) & RS.Fields(2) & RS.Fields(3)
MsgBox Txt1 & " - " & StrConv(Txt1, vbFromUnicode) & " - " & StrConv(StrConv(Txt1,
vbFromUnicode), vbUnicode)
'Datensatzfilter zusammenstellen und dabei auf Format und Hochkomma achten
If IsNumeric(RS.Fields(PrimaryTxt(0)).Value) Then
  FilterTxt = PrimaryTxt(0) & " = " & RS.Fields(PrimaryTxt(0)).Value
ElseIf IsDate(RS.Fields(PrimaryTxt(0)).Value) Then
  FilterTxt = PrimaryTxt(0) & " = " & CDbf(RS.Fields(PrimaryTxt(0)).Value) & ""
'FilterTxt = PrimaryTxt(0) & " = " & Format(RS.Fields(PrimaryTxt(0)).Value, "dd.mm.yyyy

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hh:nn:ss") & ""
Else
    FilterTxt = PrimaryTxt(0) & " = " & RS.Fields(PrimaryTxt(0)).Value & ""
End If
For I = 1 To 3
    If PrimaryTxt(I) <> "" Then
        If IsNumeric(RS.Fields(PrimaryTxt(I)).Value) Then
            FilterTxt = FilterTxt & " AND " & PrimaryTxt(I) & " = " & RS.Fields(PrimaryTxt(I)).Value
        ElseIf IsDate(RS.Fields(PrimaryTxt(I)).Value) Then
            'FilterTxt = FilterTxt & " AND " & PrimaryTxt(i) & " = " &
Format(RS.Fields(PrimaryTxt(i)).Value, "dd.mm.yyyy hh:nn:ss") & ""
            FilterTxt = FilterTxt & " AND " & PrimaryTxt(I) & " = " &
CDBl(RS.Fields(PrimaryTxt(I)).Value) & ""
        Else
            FilterTxt = FilterTxt & " AND " & PrimaryTxt(I) & " = " & RS.Fields(PrimaryTxt(I)).Value
        & ""
        End If
    End If
Next I
FilterTxt = Replace(FilterTxt, ",", ".")
'MsgBox TabName & ": " & FilterTxt

'Datensatz der Zieltabelle suchen und Positionsnummer ermitteln
'RS1.Filter = FilterTxt
RS1.FindFirst FilterTxt

If RS1.NoMatch Then
    'MsgBox "Datensatz nicht vorhanden - anfügen"
    RS1.AddNew
    'alle Feldwerte setzten
    For I = 0 To RS.Fields.Count - 1
        RS1.Fields(I).Value = RS.Fields(I).Value
    Next I

Else
    'MsgBox "Datensatz vorhanden - Felder aktualisieren"
    RS1.Edit
    'MsgBox RS.Fields.Count
    For I = 0 To RS.Fields.Count - 1
        'Schlüselfelder abfangen - bei Primärschlüselfeldern keine Änderung!
        If PrimaryTxt(0) = RS1.Fields(I).Name Or _
            PrimaryTxt(1) = RS1.Fields(I).Name Or _
            PrimaryTxt(2) = RS1.Fields(I).Name Or _
            PrimaryTxt(3) = RS1.Fields(I).Name Then
            'Feldwerte setzten
        ElseIf IsNumeric(RS.Fields(I).Value) Then
            RS1.Fields(I).Value = RS.Fields(I).Value
        ElseIf IsNull(RS.Fields(I).Value) Then
            ' RS1.Fields(I).Value = ""
        Else
            'MsgBox RS1.Fields(i).Name & RS.Fields(i).Name
            'MsgBox RS(i)
            RS1.Fields(I).Value = RS.Fields(I).Value
        End If
    Next I
End If

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'MsgBox RS.Fields(i).Name

RS1.Update 'Datensatz speichern
RS1.Filter = "" 'Datensatzfilter entfernen
RS1.MoveFirst
'MsgBox RS1.RecordCount

RS.MoveNext
Loop
RS1.Close
RS.Close

'XXX Datensätze anfügen und aktualisieren - Verzweigung nach Tabellen
'XXX SQL1 = "INSERT INTO adressen SELECT mist.* " _
'XXX & "FROM mist LEFT JOIN adressen ON mist.NUMMER = adressen.NUMMER " _
'XXX & "WHERE (((adressen.NUMMER) Is Null));"
End Function
```