
Subject: Sticky problem : MySql and UTF8

Posted by [BioBytes](#) on Mon, 02 Jan 2012 09:56:32 GMT

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Hi alls,

Sorry to come back on a discussion that have already been developped in the forum but I still face some issues with MySql encoding UTF8.

I added the line forcing MySql encoding to UTF8 starting with opening of my application session "rmSession"

```
if(rmSession.Connect(cnxStr.At(3),cnxStr.At(4),"dbrisks",server,ScanInt(cnxStr.At(2),NULL,10)))
{
    mysql_set_character_set(rmSession,"utf8");
```

```
    SQL = rmSession;
```

```
    ...
}
```

I have an SqlArray with 7 columns linked each to a specific SqlId (fields described in Schema file). Data input are controlled by SqlCtrls (DocEdit for the first 2 columns). When I implement the action WhenAcceptEdit, I got a Sql Error telling that string encoding of the second DocEdit is incorrect if there is some accents (My application is in French).

If I delete the `mysql_set_character_set(...)` line, no more error when accept edit but of course the string is incorrectly encoded in the MySql table (accents are replaced with ? character).

I turned this problem in another part of my source as follows. I checked the window closing and I save the current charset, forcing then charset to UTF8 then proceed SqlCtrls updating and return to saved charset. I must say that my application defaulty charset is already UTF8. So something remains undertandable for me.

```
[[I]]void rmFileDialog::Close()
{
    int idRisk;
    String qtfStr;

    byte previousCharset = GetDefaultCharset();

    try
    {
        if(ok.HasFocus()||ok.HasMouse())
        {
            if(GetMode()==ADD)
            {
                if(IsPackArrayEmpty()||IsRisksArrayEmpty())
```

```

{
enregistrement.")]<<"];
    Exclamation(qtfStr);
}
else
{
    PromptOK(t_("Enregistrement du nouveau dossier et ouverture de la fiche de saisie des

    SQL &numFileCtrls.Insert(TBLPROD);

    for(int i=0;i<arrayPres.GetCount();i++)
        if((bool)arrayPres.Get(i,2))SQL
&Insert(TBLPRODPACK)(IDPRODUCT,~rmNumFileEdit)(DEVICE,As
String(arrayPres.Get(i,1)));

    for(int i=0;i<arrayCatSpecRisk.GetCount();i++)
        if((bool)arrayCatSpecRisk.Get(i,2))
        {
            SQL &Select(IDRISKGEN).From(TBLRISKGEN).Where(NAME==AsString
(arrayCatSpecRisk.Get(i,1)));
            while(SQL.Fetch())idRisk=SQL[IDRISKGEN];

            SQL.Clear();
            SQL &Insert(TBLRISKGENPROD)(NUMRISKFILE,~rmNumFileEdit)(NUMG
ENRISK,idRisk);
        }

        risksWin.SetDropLists();
        risksWin.Execute();
    }

}

if(GetMode()==SELECT)
{
    SetDefaultCharset(CHARSET_UTF8);
    SQL & numFileCtrls.UpdateModified(TBLPROD).Where(NUM==~rmNumFileEd it);
    //numFileCtrls.Load(SQL,TBLPROD,NUM==~rmNumFileEdit);
    numFileCtrls.ClearModify();

    if(IsPackArrayModified())
    {
        SQL &Delete(TBLPRODPACK).Where(IDPRODUCT==~rmNumFileEdit);

        for(int i=0;i<arrayPres.GetCount();i++)

```

```

    if((bool)arrayPres.Get(i,2))SQL
&Insert(TBLPRODPACK)(IDPRODUCT,~rmNumFileEdit)(DEVICE,As
String(arrayPres.Get(i,1)));
    }

    if(IsRiskArrayModified())
    {
        SQL &Delete(TBLRISKGENPROD).Where(NUMRISKFILE==~rmNumFileEdit);

        for(int i=0;i<arrayCatSpecRisk.GetCount();i++)
            if((bool)arrayCatSpecRisk.Get(i,2))
            {
                SQL &Select(IDRISKGEN).From(TBLRISKGEN).Where(NAME==AsString
(arrayCatSpecRisk.Get(i,1)));
                while(SQL.Fetch())idRisk=SQL[IDRISKGEN];

                SQL.Clear();
                SQL &Insert(TBLRISKGENPROD)(NUMRISKFILE,~rmNumFileEdit)(NUMG
ENRISK,idRisk);
            }
        }
    }

    SetDefaultCharset(previousCharset);
    TopWindow::Close();
}
catch(SqlExc &ex)
{
    PanicMessageBox(t_("Erreur SQL"),t_("L'erreur suivante s'est produite :")+ex.ToString());
    TopWindow::Close();
}
}[/I]

```

Some help or comments ?

Thank you in advance and Happy New Year with U++

Cheers
Biobytes
