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 ? chararacter).

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 degfauly charset is already UTF8. So something remains undertandable for me.

```
[I]void rmFileDlg::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==~rmNumFileEdi t);

     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