**自定义ADO类，利用ADO类，访问数据库**

1. ADOConn.h文件：

#if !defined(AFX\_ADOCONN\_H\_\_8BD614C3\_47BB\_48D0\_9E3B\_EEF75488C7E8\_\_INCLUDED\_)

#define AFX\_ADOCONN\_H\_\_8BD614C3\_47BB\_48D0\_9E3B\_EEF75488C7E8\_\_INCLUDED\_

#if \_MSC\_VER > 1000

#pragma once

#endif // \_MSC\_VER > 1000

#include "StdAfx.h"

class ADOConn

{

public:

ADOConn();

virtual ~ADOConn();

BOOL InitalizeConnection(CString UDLFilePath);

void ExitConnection();

\_RecordsetPtr & GetRecordSet(CString strSQL);

BOOL ExecuteSQL(CString strSQL,\_RecordsetPtr &record);

private:

\_ConnectionPtr m\_pConnection;

\_RecordsetPtr m\_pRecordset;

BOOL bConnetcting;//连接标识

};

1. ADOConn.cpp文件：

// ADOConn.cpp: implementation of the ADOConn class.

//

//////////////////////////////////////////////////////////////////////

#include "stdafx.h"

#include "ADOConTest.h"

#include "ADOConn.h"

#ifdef \_DEBUG

#undef THIS\_FILE

static char THIS\_FILE[]=\_\_FILE\_\_;

#define new DEBUG\_NEW

#endif

//////////////////////////////////////////////////////////////////////

// Construction/Destruction

//////////////////////////////////////////////////////////////////////

ADOConn::ADOConn()

{

bConnetcting=FALSE;

::CoInitialize(NULL);

m\_pConnection=NULL;

m\_pRecordset=NULL;

}

ADOConn::~ADOConn()

{

if (bConnetcting)

{

ExitConnection();

}

}

void ADOConn::ExitConnection()

{

if (bConnetcting)

{

if (m\_pRecordset!=NULL)

m\_pRecordset->Close();

m\_pConnection->Close();

::CoUninitialize();

}

}

BOOL ADOConn::InitalizeConnection(CString UDLFilePath)

{

HRESULT hr;

try

{

hr=m\_pConnection.CreateInstance(\_uuidof(Connection));

if (SUCCEEDED(hr))

{

UDLFilePath="File Name="+UDLFilePath;

m\_pConnection->ConnectionString=(\_bstr\_t)UDLFilePath;

m\_pConnection->ConnectionTimeout=20;

hr=m\_pConnection->Open("","","",adConnectUnspecified);

if (FAILED(hr))

{

AfxMessageBox(\_T("打开连接失败"));

return FALSE;

}

}

else

{

AfxMessageBox(\_T("实例化连接失败"));

return FALSE;

}

bConnetcting=TRUE;

return TRUE;

}

catch(\_com\_error e)

{

\_bstr\_t bstrSource(e.Source());

\_bstr\_t bstrDescription(e.Description());

AfxMessageBox(bstrSource+bstrDescription);

return FALSE;

}

}

\_RecordsetPtr &ADOConn::GetRecordSet(CString strSQL)

{

HRESULT hr;

\_variant\_t var;

CString strValue;

int curItem=0;

if (m\_pConnection==NULL)

{

AfxMessageBox(\_T("请先初始化Connection对象！?"));

return m\_pRecordset;

}

hr=m\_pRecordset.CreateInstance(\_uuidof(Recordset));

if (FAILED(hr))

{

AfxMessageBox(\_T("创建Recordset实例失败！"));

return m\_pRecordset;

}

try

{

hr=m\_pRecordset->Open(

\_variant\_t(strSQL),

m\_pConnection.GetInterfacePtr(),

adOpenDynamic,

adLockOptimistic,

adCmdText

);

if (SUCCEEDED(hr))

{

return m\_pRecordset;

}

}

catch (\_com\_error\* e)

{

AfxMessageBox(e->ErrorMessage());

return m\_pRecordset;

}

return m\_pRecordset;

}

BOOL ADOConn::ExecuteSQL(CString strSQL,\_RecordsetPtr &record)

{

\_variant\_t RecordsAffected;

try

{

if (m\_pConnection==NULL)

{

AfxMessageBox(\_T("请先初始化Connection对象！"));

return FALSE;

}

\_bstr\_t bstrSQL=\_bstr\_t(strSQL);

record=m\_pConnection->Execute(bstrSQL,&RecordsAffected,adCmdText);

return TRUE;

}

catch(\_com\_error \*e)

{

AfxMessageBox(e->ErrorMessage());

return FALSE;

}

}

1. 使用：

3.1 在StdAfx.h中：

#import "C:\Program Files\Common Files\System\ado\msado15.dll" no\_namespace rename("EOF","adoEOF")

3.2 建立UDL文件，文件名如mydata.udl.

3.3 在Dlg.h中定义ADO类对象

public:

ADOConn m\_adocon;

3.4 初始化函数中：

m\_adocon.InitalizeConnection("mydata.udl");

3.5 响应函数

void CADOConTestDlg::OnBtnShow()

{

// TODO: Add your control notification handler code here

\_RecordsetPtr m\_record;

int c=0;

\_variant\_t var;

CString strValue;

m\_record=m\_adocon.GetRecordSet("select \* from DVDData");

m\_datalist.DeleteAllItems();

while(!m\_record->adoEOF)

{

c=m\_datalist.GetItemCount();

var=m\_record->GetCollect(\_T("编号"));

if (var.vt!=VT\_NULL)

strValue=(LPCSTR)\_bstr\_t(var);

m\_datalist.InsertItem(c,strValue);

var=m\_record->GetCollect(\_T("名称"));

if (var.vt!=VT\_NULL)

strValue=(LPCSTR)\_bstr\_t(var);

m\_datalist.SetItemText(c,1,strValue);

var=m\_record->GetCollect(\_T("日期"));

if (var.vt!=VT\_NULL)

strValue=(LPCSTR)\_bstr\_t(var);

m\_datalist.SetItemText(c,2,strValue);

var=m\_record->GetCollect(\_T("数目"));

if (var.vt!=VT\_NULL)

strValue=(LPCSTR)\_bstr\_t(var);

m\_datalist.SetItemText(c,3,strValue);

m\_record->MoveNext();

}

}

void CADOConTestDlg::OnBtnSql()

{

// TODO: Add your control notification handler code here

UpdateData(TRUE);

\_RecordsetPtr m\_record;

int c=0;

\_variant\_t var;

CString strValue;

if(!m\_adocon.ExecuteSQL(m\_strSQL,m\_record))

return;

m\_datalist.DeleteAllItems();

while(!m\_record->adoEOF)

{

c=m\_datalist.GetItemCount();

var=m\_record->GetCollect(\_T("编号"));

if (var.vt!=VT\_NULL)

strValue=(LPCSTR)\_bstr\_t(var);

m\_datalist.InsertItem(c,strValue);

var=m\_record->GetCollect(\_T("名称"));

if (var.vt!=VT\_NULL)

strValue=(LPCSTR)\_bstr\_t(var);

m\_datalist.SetItemText(c,1,strValue);

var=m\_record->GetCollect(\_T("日期"));

if (var.vt!=VT\_NULL)

strValue=(LPCSTR)\_bstr\_t(var);

m\_datalist.SetItemText(c,2,strValue);

var=m\_record->GetCollect(\_T("数目"));

if (var.vt!=VT\_NULL)

strValue=(LPCSTR)\_bstr\_t(var);

m\_datalist.SetItemText(c,3,strValue);

m\_record->MoveNext();

}

}

3.6 程序结果：

