

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

## Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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*Source:* <http://coding.derkeiler.com/Archive/Perl/comp.lang.perl.misc/2006-10/msg00088.html>

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- *From:* robic0
  - *Date:* Mon, 02 Oct 2006 20:17:07 -0700
- 

On Mon, 02 Oct 2006 19:25:03 -0700, robic0 wrote:

On Mon, 02 Oct 2006 19:15:17 -0700, robic0 wrote:

On 2 Oct 2006 18:49:12 -0700, david.f.jenkins@xxxxxxx wrote:

Well, I went and looked at the PDK Samples I got with the distribution, and found nothing that would help me.

Here's what I want – surely this is child's play to experienced Perlers:

I want to pass an empty container for a set of strings from VBA into Perl, do some stuff in Perl, and populate the Collection with a set of strings. I've stolen most of the PDK Perlctrl regex sample and made some small mods to it to meet my requirements.

In general, the VBA side is easy, but I do have these VBA questions:  
should the array be typed in VBA as a Collection? Variant? Object?  
Something else? And why? Where is that documented?

I'm at a complete loss as to what to do on the Perl side:

<snip>

I'm posting a ADO wrapper class (for recordsets) I did about 6 years ago. Its intimitaly involved in VARIANTS, which has an intrinsic language `_variant_t`

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```
{
tagDATAMAP_REC() { nCurIndex = -1; nNextIndex = -1; sMapData_FldName = _T(""); nMapData_Rec =
-1; }

// Define field information ...
BOOL PutRsFieldValues(Field **field, long recnum)
{
// field[0]->put_Value( _variant_t((long)recnum) );
field[0]->put_Value( _variant_t(sMapData_FldName) );
field[1]->put_Value( _variant_t((long)nCurIndex) );
field[2]->put_Value( _variant_t((long)nMapData_Rec) );
field[3]->put_Value( _variant_t((long)nNextIndex) );
return TRUE;
}
CString sMapData_FldName;
int nCurIndex;
int nMapData_Rec;
int nNextIndex;

} DATAMAP_REC;

typedef struct tagMAPDATA_REC
{
tagMAPDATA_REC () {nMapNdx = -1; nDRec = -1;}
tagMAPDATA_REC (int nMdx, int nDr, _variant_t &vtData) {nMapNdx = nMdx; nDRec = nDr;
vtStoreData = vtData;}
struct tagMAPDATA_REC& operator= (const struct tagMAPDATA_REC &sdRec)
{nMapNdx = sdRec.nMapNdx; nDRec = sdRec.nDRec; vtStoreData = sdRec.vtStoreData; return *this;}
int nMapNdx;
int nDRec;
_variant_t vtStoreData;
} MAPDATA_REC;

#include <vector>
#include <algorithm>
using namespace std;

////////////////////////////////////
// ADO Recordset helper class
class CADORsX1
{
public:
CADORsX1(_RecordsetPtr &rs);
virtual ~CADORsX1();

public:
BOOL DIST_ChangeMapUnfiltered(_RecordsetPtr &rsStore1, CString sFldStore1, _RecordsetPtr &rsStore2,
CString sFldStore2);
BOOL DIST_ChangeMapFiltered(_RecordsetPtr &rsStore1, CString sFldStore1, _RecordsetPtr &rsStore2,
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
CString sFldStore2, CString sFiltFldStore2);
BOOL DIST_CreateMap(vector <DATAMAP_REC> &vaDataMap, int *pmaxsize);
BOOL DIST_FilterRecords(CString Sortflds, CString Flagfld);
BOOL CreateTable(CString sTable, CString sDatabase, CString sUser, CString sPassword, long nOptions);
BOOL PutSort(LPCTSTR sSort);
BOOL PutFilter(LPCTSTR sFltr);
BOOL PutFilter(VARIANT sCriteria);
BOOL AddNew();
BOOL GetBookmark(VARIANT *vbookMark);
BOOL GetBookmark(_RecordsetPtr &rset, VARIANT *vbookMark);
BOOL PutBookmark(VARIANT vbookMark);
BOOL PutBookmark(_RecordsetPtr &rset, VARIANT vbookMark);

BOOL RS_PutLong(LPCTSTR sFldName, long lval);
BOOL RS_PutLong(long idx, long lval);
BOOL RS_PutBool(LPCTSTR sFldName, bool bval);
BOOL RS_PutBool(long idx, bool bval);
BOOL RS_PutDouble(LPCTSTR sFldName, double dval);
BOOL RS_PutDouble(long idx, double dval);
BOOL RS_PutFloat(LPCTSTR sFldName, double dval);
BOOL RS_PutFloat(long idx, double dval);
BOOL RS_PutInt(LPCTSTR sFldName, int ival);
BOOL RS_PutInt(long idx, int ival);
BOOL RS_PutString(LPCTSTR sFldName, LPCTSTR sval);
BOOL RS_PutString(long idx, LPCTSTR sval);
BOOL RemoveUnfilteredRecords();
BOOL RemoveUnfilteredRecords(_RecordsetPtr &rsnew);
BOOL AppendField(CString sFldName, DataTypeEnum fldType, long fldSize, FieldAttributeEnum
FldAttr);
void SetSrc(_RecordsetPtr &rs);
long m_FldCount;
BOOL Update();
BOOL Delete();
BOOL GetField(_RecordsetPtr &rset, VARIANT idx, VARIANT *newVal);
BOOL GetField(VARIANT idx, VARIANT *newVal);
BOOL PutField(VARIANT idx, VARIANT newVal);
BOOL GetFieldCount(long * newVal);
BOOL First();
BOOL Next();
BOOL Last();
BOOL Prev();
BOOL IsEOF();
BOOL IsEOF(_RecordsetPtr &rset);
BOOL IsBOF();
long GetRecordCount();
BOOL Empty();
CString RS_GetString(LPCTSTR sFldName);
CString RS_GetString(int nFieldIndex);
CString ConvertVarToStr(VARIANT &var);
double RS_GetDouble(LPCTSTR sFldName);
double RS_GetDouble(int nFieldIndex);
```

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```
: m_recordset(rs)
{
m_FldCount = 0;
if (m_recordset)
GetFieldCount(&m_FldCount);
}

CADORsX1::~CADORsX1()
{
}

BOOL CADORsX1::Update()
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->Update();
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}

BOOL CADORsX1::Delete()
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->Delete(adAffectCurrent);
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}

BOOL CADORsX1::GetField(VARIANT idx, VARIANT *newVal)
{
if (m_recordset == NULL)
return FALSE;
Fields* fields = 0;
HRESULT hr = m_recordset->get_Fields(&fields);

Field* field = 0;
if (SUCCEEDED(hr))
hr = fields->get_Item(idx, &field);
if (SUCCEEDED(hr))
hr = field->get_Value(newVal);

if (SUCCEEDED(hr))
{
fields->Release();
field->Release();
}
if (SUCCEEDED(hr))
return TRUE;
}
```

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```
return FALSE;  
}
```

```
BOOL CADORsX1::GetField(_RecordsetPtr &rset, VARIANT idx, VARIANT *newVal)  
{  
if (rset == NULL)  
return FALSE;  
Fields* fields = 0;  
HRESULT hr = rset->get_Fields(&fields);  
  
Field* field = 0;  
if (SUCCEEDED(hr))  
hr = fields->get_Item(idx, &field);  
if (SUCCEEDED(hr))  
hr = field->get_Value(newVal);  
  
if (SUCCEEDED(hr))  
{  
fields->Release();  
field->Release();  
}  
if (SUCCEEDED(hr))  
return TRUE;  
return FALSE;  
}
```

```
BOOL CADORsX1::PutField(VARIANT idx, VARIANT newVal)  
{  
if (m_recordset == NULL)  
return FALSE;  
Fields* fields = 0;  
HRESULT hr = m_recordset->get_Fields(&fields);  
Field* field = 0;  
if (SUCCEEDED(hr))  
hr = fields->get_Item(idx, &field);  
if (SUCCEEDED(hr))  
hr = field->put_Value(newVal);  
  
if (SUCCEEDED(hr))  
{  
fields->Release();  
field->Release();  
}  
if (SUCCEEDED(hr))  
return TRUE;  
return FALSE;  
}
```

```
BOOL CADORsX1::GetFieldCount(long * newVal)  
{  
if (m_recordset == NULL)
```

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```
return FALSE;
Fields* fields = 0;
HRESULT hr = m_recordset->get_Fields(&fields);
if (SUCCEEDED(hr))
hr = fields->get_Count(newVal);
if (SUCCEEDED(hr))
fields->Release();
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::First()
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->MoveFirst();
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::Next()
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->MoveNext();
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::Last()
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->MoveLast();
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::Prev()
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->MovePrevious();
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

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```
BOOL CADORsX1::IsEOF(_RecordsetPtr &rset)
{
if (rset == NULL)
return FALSE;
VARIANT_BOOL newVal;
HRESULT hr = rset->get_EOF(&newVal);
if (SUCCEEDED(hr) && newVal)
return TRUE;
return FALSE;
}

BOOL CADORsX1::IsEOF()
{
if (m_recordset == NULL)
return FALSE;
VARIANT_BOOL newVal;
HRESULT hr = m_recordset->get_EOF(&newVal);
if (SUCCEEDED(hr) && newVal)
return TRUE;
return FALSE;
}

BOOL CADORsX1::IsBOF()
{
if (m_recordset == NULL)
return FALSE;
VARIANT_BOOL newVal;
HRESULT hr = m_recordset->get_BOF(&newVal);
if (SUCCEEDED(hr) && newVal)
return TRUE;
return FALSE;
}

long CADORsX1::GetRecordCount()
{
if (m_recordset == NULL)
return FALSE;
long pl;
pl = 0;
HRESULT hr = m_recordset->get_RecordCount(&pl);
if (SUCCEEDED(hr))
return pl;
return 0L;
}

BOOL CADORsX1::Empty()
{
if (m_recordset == NULL)
return FALSE;
VARIANT_BOOL bEmpty;
```

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```
HRESULT hr = m_recordset->get_EOF(&bEmpty);
if (SUCCEEDED(hr) && &bEmpty)
hr = m_recordset->get_BOF(&bEmpty);
if (SUCCEEDED(hr) && bEmpty)
return TRUE;
return FALSE;
}
```

```
////////// Utilities: Get DAO Field //////////
```

```
/*
```

```
enum VARENUM
{ VT_EMPTY = 0,
VT_NULL = 1,
VT_I2 = 2,
VT_I4 = 3,
VT_R4 = 4,
VT_R8 = 5,
VT_CY = 6,
VT_DATE = 7,
VT_BSTR = 8,
VT_DISPATCH = 9,
VT_ERROR = 10,
VT_BOOL = 11,
VT_VARIANT = 12,
VT_UNKNOWN = 13,
VT_DECIMAL = 14,
VT_I1 = 16,
VT_UI1 = 17,
VT_UI2 = 18,
VT_UI4 = 19,
VT_I8 = 20,
VT_UI8 = 21,
VT_INT = 22,
VT_UINT = 23,
VT_VOID = 24,
VT_HRESULT = 25,
VT_PTR = 26,
VT_SAFEARRAY = 27,
VT_CARRAY = 28,
VT_USERDEFINED = 29,
VT_LPSTR = 30,
VT_LPWSTR = 31,
VT_RECORD = 36,
VT_FILETIME = 64,
VT_BLOB = 65,
VT_STREAM = 66,
VT_STORAGE = 67,
VT_STREAMED_OBJECT = 68,
VT_STORED_OBJECT = 69,
VT_BLOB_OBJECT = 70,
```

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```
VT_CF = 71,  
VT_CLSID = 72,  
VT_BSTR_BLOB = 0xffff,  
VT_VECTOR = 0x1000,  
VT_ARRAY = 0x2000,  
VT_BYREF = 0x4000,  
VT_RESERVED = 0x8000,  
VT_ILLEGAL = 0xffff,  
VT_ILLEGALMASKED = 0xffff,  
VT_TYPEMASK = 0xffff  
};  
*/
```

```
CString CADORsX1::RS_GetString(LPCTSTR sFldName)  
{  
    if (m_recordset == NULL)  
        return _T("");  
    _variant_t newVal;  
    CString stmp = _T("");  
  
    if (GetField(_variant_t(sFldName), &newVal))  
        stmp = ConvertVarToStr(newVal);  
    #ifdef _VTDEBUG  
    else  
        LogItem("RS_GetString : GetField(FldName) returned error.");  
    #endif  
    return stmp;  
}
```

```
CString CADORsX1::RS_GetString(int nFieldIndex)  
{  
    if (m_recordset == NULL)  
        return _T("");  
    CString str;  
    _variant_t newVal;  
    CString stmp = _T("");  
  
    if (1)//nFieldIndex >= 0 && nFieldIndex <= m_FldCount  
    {  
        if (GetField(_variant_t((long)nFieldIndex), &newVal))  
            stmp = ConvertVarToStr(newVal);  
        #ifdef _VTDEBUG  
        else  
            LogItem("RS_GetString : GetField(FldIndex) returned error.");  
        #endif  
    }  
    #ifdef _VTDEBUG  
    else  
        LogItem("RS_GetString : Field Index out of range");  
    #endif
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
return stmp;  
}
```

```
CString CADORsX1::ConvertVarToStr(VARIANT &var)  
{  
    USES_CONVERSION;  
    if (m_recordset == NULL)  
        return _T("");  
    // Check that newVal is of type BSTR  
    // MessageBox(0,(const char*)_bstr_t(tp),"Message",0);  
    CString str = _T("");  
  
    switch (var.vt)  
    {  
        case VT_BSTR:  
            str = OLE2CT(var.bstrVal);  
            ::SysFreeString(var.bstrVal);  
            break;  
  
        default:  
            #ifdef _VTDEBUG  
            LogItem("RS_GetString : " + GetVariantString (var.vt) + " Not String Type");  
            #endif  
            break;  
    }  
    return str;  
}
```

```
double CADORsX1::RS_GetDouble(LPCTSTR sFldName)  
{  
    if (m_recordset == NULL)  
        return 0.;  
    _variant_t newVal;  
    double dVal = 0.;  
  
    if (GetField(_variant_t(sFldName), &newVal))  
        dVal = ConvertVarToDouble(newVal);  
    #ifdef _VTDEBUG  
    else  
        LogItem("RS_GetDouble : GetField(FldName) returned error.");  
    #endif  
    return dVal;  
}
```

```
double CADORsX1::RS_GetDouble(int nFieldIndex)  
{  
    if (m_recordset == NULL)  
        return 0.;
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
_variant_t newVal;
double dVal = 0.;

if (1)//nFieldIndex >= 0 && nFieldIndex <= m_FldCount)
{
if (GetField(_variant_t((long)nFieldIndex), &newVal))
dVal = ConvertVarToDouble(newVal);
#ifdef _VTDEBUG
else
LogItem("RS_GetDouble : GetField(FldIndex) returned error.");
#endif
}
#ifdef _VTDEBUG
else
LogItem("RS_GetDouble : Field Index out of range");
#endif
return dVal;
}

double CADORsX1::ConvertVarToDouble(VARIANT &var)
{
if (m_recordset == NULL)
return FALSE;
double dVal = 0.;
switch (var.vt)
{
case VT_I2:
dVal = var.iVal;
break;
case VT_I4:
dVal = var.lVal;
break;
case VT_R4:
dVal = (double) var.fltVal;
break;
case VT_R8:
dVal = var.dblVal;
break;

default:
#ifdef _VTDEBUG
LogItem("RS_GetDouble : " + GetVariantString (var.vt) + " Not Numeric Type");
#endif
break;
}
return dVal;
}

int CADORsX1::RS_GetInt(LPCTSTR sFldName)
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
{
if (m_recordset == NULL)
return FALSE;
_variant_t newVal;
int nVal = 0;

if (GetField(_variant_t(sFldName), &newVal))
nVal = ConvertVarToInt(newVal);
#ifdef _VTDEBUG
else
LogItem("RS_GetInt : GetField(FldName) returned error.");
#endif
return nVal;
}
```

```
int CADORsX1::RS_GetInt(int nFieldIndex)
{
if (m_recordset == NULL)
return FALSE;
CString str;

_variant_t newVal;
int nVal = 0;

if (1//nFieldIndex >= 0 && nFieldIndex <= m_FldCount)
{
if (GetField(_variant_t((long)nFieldIndex), &newVal))
nVal = ConvertVarToInt(newVal);
#ifdef _VTDEBUG
else
LogItem("RS_GetInt : GetField(FldIndex) returned error.");
#endif
}
#ifdef _VTDEBUG
else
LogItem("RS_GetInt : Field Index out of range");
#endif
return nVal;
}
```

```
int CADORsX1::ConvertVarToInt(VARIANT &var)
{
if (m_recordset == NULL)
return FALSE;
int nVal = 0;
switch (var.vt)
{
case VT_I2:
nVal = (int) var.iVal;
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
break;
case VT_I4:
nVal = var.lVal;
break;

default:
#ifdef _VTDEBUG
LogItem("RS_GetInt : " + GetVariantString (var.vt) + " Not Integer Type");
#endif
break;
}
return nVal;
}
```

```
float CADORsX1::RS_GetFloat(LPCTSTR sFldName)
{
if (m_recordset == NULL)
return FALSE;
_variant_t newVal;
float dVal = 0.;

if (GetField(_variant_t(sFldName), &newVal))
dVal = ConvertVarToFloat(newVal);
#ifdef _VTDEBUG
else
LogItem("RS_GetFloat : GetField(FldName) returned error.");
#endif
return dVal;
}
```

```
float CADORsX1::RS_GetFloat(int nFieldIndex)
{
if (m_recordset == NULL)
return FALSE;
_variant_t newVal;
float dVal = 0.;

if (1)/nFieldIndex >= 0 && nFieldIndex <= m_FldCount)
{
if (GetField(_variant_t((long)nFieldIndex), &newVal))
dVal = ConvertVarToFloat(newVal);
#ifdef _VTDEBUG
else
LogItem("RS_GetFloat : GetField(FldIndex) returned error.");
#endif
}
#ifdef _VTDEBUG
else
LogItem("RS_GetFloat : Field Index out of range");
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
#endif  
return dVal;  
}
```

```
float CADORsX1::ConvertVarToFloat(VARIANT &var)  
{  
if (m_recordset == NULL)  
return FALSE;  
float dVal = 0;  
switch (var.vt)  
{  
case VT_I2:  
dVal = (float) var.iVal;  
break;  
case VT_I4:  
dVal = (float) var.lVal;  
break;  
case VT_R4:  
dVal = var.fltVal;  
break;  
case VT_R8:  
dVal = (float) var.dblVal;  
break;  
  
default:  
#ifdef _VTDEBUG  
LogItem("RS_GetFloat : " + GetVariantString (var.vt) + " Not Numeric Type");  
#endif  
break;  
}  
return dVal;  
}
```

```
long CADORsX1::RS_GetLong(LPCTSTR sFldName)  
{  
if (m_recordset == NULL)  
return FALSE;  
_variant_t newVal;  
long nVal = 0;  
  
if (GetField(_variant_t(sFldName), &newVal))  
nVal = ConvertVarToLong(newVal);  
#ifdef _VTDEBUG  
else  
LogItem("RS_GetLong : GetField(FldName) returned error.");  
#endif  
return nVal;  
}
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
long CADORsX1::RS_GetLong(int nFieldIndex)
{
if (m_recordset == NULL)
return FALSE;
CString str;
_variant_t newVal;
long nVal = 0;

if (1)//nFieldIndex >= 0 && nFieldIndex <= m_FldCount)
{
if (GetField(_variant_t((long)nFieldIndex), &newVal))
nVal = ConvertVarToLong(newVal);
#ifdef _VTDEBUG
else
LogItem("RS_GetLong : GetField(FldIndex) returned error.");
#endif
}
#ifdef _VTDEBUG
else
LogItem("RS_GetLong : Field Index out of range");
#endif
return nVal;
}

long CADORsX1::ConvertVarToLong(VARIANT &var)
{
if (m_recordset == NULL)
return FALSE;
long nVal = 0;
switch (var.vt)
{
case VT_I2:
nVal = (int) var.iVal;
break;
case VT_I4:
nVal = var.lVal;
break;

default:
#ifdef _VTDEBUG
LogItem("RS_GetLong : " + GetVariantString (var.vt) + " Not Integer Type");
#endif
break;
}
return nVal;
}

bool CADORsX1::RS_GetBool(LPCTSTR sFldName)
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
{
if (m_recordset == NULL)
return FALSE;
_variant_t newVal;
bool bVal = false;

if (GetField(_variant_t(sFldName), &newVal))
bVal = ConvertVarToBool(newVal);
#ifdef _VTDEBUG
else
LogItem("RS_GetBool : GetField(FldName) returned error.");
#endif
return bVal;
}
```

```
bool CADORsX1::RS_GetBool(int nFieldIndex)
{
if (m_recordset == NULL)
return FALSE;
CString str;
_variant_t newVal;
bool bVal = 0;

if (1)//nFieldIndex >= 0 && nFieldIndex <= m_FldCount)
{
if (GetField(_variant_t((long)nFieldIndex), &newVal))
bVal = ConvertVarToBool(newVal);
#ifdef _VTDEBUG
else
LogItem("RS_GetBool : GetField(FldIndex) returned error.");
#endif
}
#ifdef _VTDEBUG
else
LogItem("RS_GetBool : Field Index out of range");
#endif
return bVal;
}
```

```
bool CADORsX1::ConvertVarToBool(VARIANT &var)
{
if (m_recordset == NULL)
return FALSE;
bool bVal = false;
switch (var.vt)
{
case VT_BOOL:
bVal = (var.boolVal == 0) ? false : true;
break;
}
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
default:
#ifdef _VTDEBUG
LogItem("RS_GetBool : " + GetVariantString (var.vt) + " Not Logical Type");
#endif
break;
}
return bVal;
}
```

```
void CADORsX1::LogItem (const CString &s)
{
TRACE(s + "\r\n");
}
```

```
static CString sVT[] = {

_T("VT_EMPTY") ,// 0, [V] nothing
_T("VT_NULL") ,// 1, [V] SQL style Null
_T("VT_I2") ,// 2, [V] 2 byte signed int
_T("VT_I4") ,// 3, [V] 4 byte signed int
_T("VT_R4") ,// 4, [V] 4 byte real
_T("VT_R8") ,// 5, [V] 8 byte real
_T("VT_CY") ,// 6, [V] currency
_T("VT_DATE") ,// 7, [V] date
_T("VT_BSTR") ,// 8, [V] OLE Automation string
_T("VT_DISPATCH") ,// 9, [V] IDispatch *
_T("VT_ERROR") ,// 10, [V] SCODE
_T("VT_BOOL") ,// 11, [V] True=-1, False=0
_T("VT_VARIANT") ,// 12, [V] VARIANT *
_T("VT_UNKNOWN") ,// 13, [V] IUnknown *
_T("VT_DECIMAL") ,// 14, [V] 16 byte fixed point
_T("VT_I1") ,// 16, [V] signed char
_T("VT_UI1") ,// 17, [V] unsigned char
_T("VT_UI2") ,// 18, [V] unsigned short
_T("VT_UI4") ,// 19, [V] unsigned short
_T("VT_I8") ,// 20, [T] signed 64-bit int
_T("VT_UI8") ,// 21, [T] unsigned 64-bit int
_T("VT_INT") ,// 22, [V] signed machine int
_T("VT_UINT") ,// 23, [V] unsigned machine int
_T("VT_ARRAY") ,// 0x2000, [V] SAFEARRAY*
_T("VT_BYREF") ,// 0x4000, [V] void* for local use
_T("none") };
```

```
CString CADORsX1::GetVariantString (int nId)
{
if (m_recordset == NULL)
return _T("");
if (nId == 0x2000)
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
nId = 24;
else
if (nId == 0x4000)
nId = 25;
else
if (!(nId >= 0 && nId <= 23))
nId = 26;
return sVT[nId];
}
```

```
BOOL CADORsX1::AppendField(CString FldName, DataTypeEnum FldType, long FldSize,
FieldAttributeEnum FldAttr)
{
if (m_recordset == NULL)
return FALSE;
// Append new field ...
Fields *fields = 0;
HRESULT hr = m_recordset->get_Fields(&fields);
if (SUCCEEDED(hr))
hr = fields->Append(_bstr_t(FldName), FldType, FldSize, FldAttr);
if (fields != NULL)
fields->Release();
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::RemoveUnfilteredRecords()
{
if (m_recordset == NULL)
return FALSE;
_StreamPtr tmpStream = 0;
HRESULT hr = tmpStream.CreateInstance(__uuidof(Stream));
if (SUCCEEDED(hr))
hr = tmpStream->put_Type(adTypeBinary);
if (SUCCEEDED(hr))
hr = m_recordset->Save(_variant_t(tmpStream.GetInterfacePtr()), adPersistADTG);
m_recordset->Close();
tmpStream->put_Position(0);
if (SUCCEEDED(hr))
hr = m_recordset->Open(_variant_t(tmpStream.GetInterfacePtr()),_variant_t((IDispatch
*)NULL,false),adOpenUnspecified,adLockUnspecified,adCmdFile);//adConnectUnspecified);
tmpStream->Close();
tmpStream.Release();
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::RemoveUnfilteredRecords(_RecordsetPtr &rsnew)
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
{
if (m_recordset == NULL || rsnew != NULL)
return FALSE;
HRESULT hr = rsnew.CreateInstance(__uuidof(Recordset));
if (SUCCEEDED(hr))
hr = rsnew->put_CursorLocation(adUseClient);
if (SUCCEEDED(hr))
hr = rsnew->put_ActiveConnection(_variant_t((IDispatch *)NULL, false));
_StreamPtr tmpStream = 0;
if (SUCCEEDED(hr))
hr = tmpStream.CreateInstance(__uuidof(Stream));
if (SUCCEEDED(hr))
hr = tmpStream->put_Type(adTypeBinary);
if (SUCCEEDED(hr))
hr = m_recordset->Save(_variant_t(tmpStream.GetInterfacePtr()), adPersistADTG);
if (SUCCEEDED(hr))
tmpStream->put_Position(0);
if (SUCCEEDED(hr))
hr = rsnew->Open(_variant_t(tmpStream.GetInterfacePtr()),_variant_t((IDispatch
*)NULL,false),adOpenUnspecified,adLockUnspecified,adCmdFile);//adConnectUnspecified);
if (tmpStream)
{
tmpStream->Close();
tmpStream.Release();
}
if (SUCCEEDED(hr))
return TRUE;
if (rsnew)
{
rsnew->Release();
rsnew = 0;
}
return FALSE;
}
```

BOOL CADORsX1::RS\_PutLong(LPCTSTR sFldName, long lval)

```
{
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t(sFldName), _variant_t((long)lval));
}
```

BOOL CADORsX1::RS\_PutLong(long idx, long lval)

```
{
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t((long)idx), _variant_t((long)lval));
}
```

BOOL CADORsX1::RS\_PutBool(LPCTSTR sFldName, bool bval)

```
{
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t(sFldName), _variant_t(bval));
}
```

```
BOOL CADORsX1::RS_PutBool(long idx, bool bval)
{
if (m_recordset == NULL)
return FALSE;
CString stf;
stf = bval ? _T("True") : _T("False");
return PutField(_variant_t((long) idx), _variant_t(bval));
}
```

```
BOOL CADORsX1::RS_PutDouble(LPCTSTR sFldName, double dval)
{
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t(sFldName), _variant_t(dval));
}
```

```
BOOL CADORsX1::RS_PutDouble(long idx, double dval)
{
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t((long) idx), _variant_t(dval));
}
```

```
BOOL CADORsX1::RS_PutFloat(LPCTSTR sFldName, double dval)
{
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t(sFldName), _variant_t(dval));
}
```

```
BOOL CADORsX1::RS_PutFloat(long idx, double dval)
{
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t((long) idx), _variant_t(dval));
}
```

```
BOOL CADORsX1::RS_PutInt(LPCTSTR sFldName, int ival)
{
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t(sFldName), _variant_t((long)ival));
}
```

```
BOOL CADORsX1::RS_PutInt(long idx, int ival)
{
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t((long) idx), _variant_t((long)ival));
}
```

```
BOOL CADORsX1::RS_PutString(LPCTSTR sFldName, LPCTSTR sval)
{
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t(sFldName), _variant_t(sval));
}
```

```
BOOL CADORsX1::RS_PutString(long idx, LPCTSTR sval)
{
if (m_recordset == NULL)
return FALSE;
return PutField(_variant_t((long) idx), _variant_t(sval));
}
```

```
BOOL CADORsX1::AddNew()
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->AddNew();
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::PutFilter(LPCTSTR sFltr)
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->put_Filter(_variant_t(sFltr));
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::PutFilter(VARIANT sCriteria)
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->put_Filter(sCriteria);
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::PutSort(LPCTSTR sSort)
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->put_Sort(_bstr_t(sSort));
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::GetBookmark(_RecordsetPtr &rset, VARIANT *vbookMark)
{
if (rset == NULL)
return FALSE;
HRESULT hr = rset->get_Bookmark(vbookMark);
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::GetBookmark(VARIANT *vbookMark)
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->get_Bookmark(vbookMark);
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::PutBookmark(VARIANT vbookMark)
{
if (m_recordset == NULL)
return FALSE;
HRESULT hr = m_recordset->put_Bookmark(vbookMark);
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::PutBookmark(_RecordsetPtr &rset, VARIANT vbookMark)
{
if (rset == NULL)
return FALSE;
HRESULT hr = rset->put_Bookmark(vbookMark);
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

// Create a Table from this objects recordset

```
BOOL CADORsX1::CreateTable(CString sTable, CString sSource, CString sUser, CString sPassword, long
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

```
nOptions)
{
USES_CONVERSION;

if (m_recordset == NULL)
return FALSE;
_CommandPtr tmpCmd = NULL;
_RecordsetPtr tmpRS = NULL;
_ConnectionPtr tmpCon = NULL;

HRESULT hr = tmpCon.CreateInstance("ADODB.Connection");
if (SUCCEEDED(hr))
{
hr = tmpCon->put_CursorLocation(adUseClient);
if (SUCCEEDED(hr))
hr = tmpCon->Open(_bstr_t(sSource), _bstr_t(sUser), bstr_t(sPassword), nOptions);
}
if (SUCCEEDED(hr))
hr = tmpCmd.CreateInstance(__uuidof(Command));
if (SUCCEEDED(hr))
hr = tmpCmd->putref_ActiveConnection(tmpCon);
if (SUCCEEDED(hr))
hr = tmpRS.CreateInstance(__uuidof(Recordset));

if (FAILED(hr))
{
if (tmpCon)
tmpCon->Close();
tmpCmd = 0;
tmpRS = 0;
tmpCon = 0;
return FALSE;
}

// Gather field information ...

////////// get recordset state, if closed, open it //////////
First();
long numflds = 0;
Fields *fields = 0;
hr = m_recordset->get_Fields(&fields);
if (SUCCEEDED(hr))
fields->get_Count(&numflds);
if (numflds > 0)
{
// Get Field pointers ...
Field **field = new (Field(*[numflds]));
for (int i = 0; i < numflds; i++)
{
field[i] = 0;
if (SUCCEEDED(hr))
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
hr = fields->get_Item(_variant_t((long)i), &field[i]);
}
//FLDINFO fld_rec;
if (SUCCEEDED(hr))
{
CString sCreateStr = _T("DROP TABLE ") + sTable + _T(";");
_Recordset* prec = 0;
hr = tmpCon->Execute(_bstr_t(sCreateStr), NULL, adCmdText, &prec);
if (SUCCEEDED(hr))
prec->Release();
sCreateStr = _T("CREATE TABLE ") + sTable + _T(";");
prec = 0;
hr = tmpCon->Execute(_bstr_t(sCreateStr), NULL, adCmdText, &prec);
if (SUCCEEDED(hr))
prec->Release();

if (SUCCEEDED(hr))
{
for (i = 0; i < numflds; i++)
{
////// Add one column at a time //////
BSTR bsfldName;
field[i]->get_Name(&bsfldName);
DataTypeEnum efldType;
field[i]->get_Type(&efldType);
long nfldSize = 0;
field[i]->get_DefinedSize(&nfldSize);

CString sFldStr = _T("[") + CString(OLE2CT(bsfldName)) + _T("] ");
CString sadd = _T("");
switch (efldType)
{
case adDouble:
sadd = _T("DOUBLE");
break;
case adInteger:
sadd = _T("INTEGER");
break;
case adBoolean:
sadd = _T("LOGICAL");
break;
case adVarChar:
default:
sadd.Format(_T("VARCHAR(%d)", nfldSize);
break;
}
sFldStr += sadd;
sCreateStr = _T("ALTER TABLE ") + sTable + _T(" ADD ") + sFldStr + _T(";");
prec = 0;
hr = tmpCon->Execute(_bstr_t(sCreateStr), NULL, adCmdText + adExecuteNoRecords, &prec);
// if (SUCCEEDED(hr))
}
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
// prec->Release();
}
}
}
// Insert rows into table ...
if (SUCCEEDED(hr))
{
    Last();
    if (!IsBOF())
    {
        First();
        while (!IsEOF())
        {
            CString sRowData = _T("");
            for (i = 0; i < numflds; i++)
            {
                CString sadd = _T("");
                DataTypeEnum efldType;
                field[i]->get_Type(&efldType);

                switch (efldType)
                {
                    case adDouble:
                        sadd.Format(_T("%f"), RS_GetDouble(i));
                        break;
                    case adInteger:
                        sadd.Format(_T("%d"), RS_GetInt(i));
                        break;
                    case adBoolean:
                        sadd = (RS_GetBool(i) ? _T("-1") : _T("0")); // _T("True") : _T("False"));
                        break;
                    case adVarChar:
                    default:
                        sadd.Format(_T("%s"), RS_GetString(i));
                        break;
                }
                sRowData += sadd;
                if (i < (numflds-1))
                    sRowData += _T(", ");
            }
            Next();
            _Recordset* prec = 0;
            CString sInsertStr = _T("INSERT INTO ") + sTable + _T(" VALUES (");
            sInsertStr += sRowData + _T(")");
            hr = tmpCon->Execute(_bstr_t(sInsertStr), NULL, adCmdText + adExecuteNoRecords, &prec);
            // if (SUCCEEDED(hr))
            // prec->Release();
        }
    }
}
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
// Release references ...
for (i = 0; i < numflds; i++)
{
if (field[i] != 0)
field[i]->Release();
}
if (fields != 0)
fields->Release();
delete [] field;
}
// finished ?
if (tmpCon)
tmpCon->Close();
tmpCmd = 0;
tmpRS = 0;
tmpCon = 0;
if (SUCCEEDED(hr))
return TRUE;
return FALSE;
}
```

```
BOOL CADORsX1::DIST_FilterRecords(CString Sortflds, CString Flagfld)
```

```
{
USES_CONVERSION;
if (m_recordset == NULL)
return FALSE;
```

```
////////////////////////////////////
```

```
// START it here .....
```

```
// *****
```

```
long total_flds;
GetFieldCount(&total_flds);
```

```
// Parse the Sort Field string (don't upper case it) ....
```

```
vector <CString> vaSortFldName;
if (total_flds <= 0 || !ParseStringCSV(vaSortFldName, Sortflds, FALSE))
return FALSE;
```

```
// Get the Fields ...
```

```
Fields *fields = 0;
HRESULT hr = m_recordset->get_Fields(&fields);
```

```
// Get Field pointers ...
```

```
Field **field = new (Field(*[total_flds]));
```

```
for (int i = 0; i < total_flds; i++)
```

```
{
field[i] = 0;
if (SUCCEEDED(hr))
hr = fields->get_Item(_variant_t((long)i), &field[i]);
}
```

```
// Match up the Field names with their indexes ...
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
vector <int> vaSortFldNdx;
int fld_name_size = vaSortFldName.size();
CString sSortString = _T("");
int FlagNdx = -1;
for (i = 0; i < fld_name_size; i++)
{
    for (int k = 0; k < total_flds; k++)
    {
        BSTR bname;
        field[k]->get_Name(&bname);
        CString fldname = OLE2CT(bname);
        if (fldname == Flagfld)
            FlagNdx = k;
        else
            if (fldname == vaSortFldName[i])
            {
                if (sSortString.GetLength() > 0)
                    sSortString += _T(", ");
                sSortString += vaSortFldName[i];
                vaSortFldNdx.push_back(k);
                if (FlagNdx >= 0)
                    break;
            }
    }
}
// Release references ...
for (i = 0; i < total_flds; i++)
{
    if (field[i] != 0)
        field[i]->Release();
}
if (fields != 0)
    fields->Release();
delete [] field;

// Here we have sort string, sort order and flag field indexes ...
int SortNdx_size = vaSortFldNdx.size();
if (SortNdx_size <= 0 || FlagNdx < 0 || fld_name_size != SortNdx_size)
    return FALSE;

// Take off Filter and put on Sort ...
PutFilter(_T(""));
PutSort(sSortString);
long total_records = GetRecordCount();

/* _variant_t *vb = new _variant_t[total_records]();
int vbcnt = 0;
for (int i = 0; i < total_records; i++)
    vb[i].vt = VT_EMPTY;
*/
int *Distinct = new int[total_records]();
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

```
for (i = 0; i < total_records; i++)
Distinct[i] = 0;

for (int ndx = 0; ndx < fld_name_size; ndx++)
{
First();
int currec = 0;
BOOL bfirst = TRUE;
_variant_t lastVal;
BOOL bIsLastValid = TRUE;

if (bfirst)
{
GetField(_variant_t((long)vaSortFldNdx[ndx]), &lastVal);
if (!Distinct[currec])
{
Distinct[currec] = 1;
RS_PutLong(FlagNdx, 1L);
/* _variant_t vtmpbook;
Xrs_test->GetBookmark(&vtmpbook);
vb[vbcnt] = vtmpbook;
vbcnt++;
*/ }
Next();
bfirst = FALSE;
bIsLastValid = TRUE;
currec++;
}

while (!IsEOF())
{
if (!Distinct[currec])
{
// see if lastVal is valid
if (bIsLastValid == FALSE)
{
Prev();
GetField(_variant_t((long)vaSortFldNdx[ndx]), &lastVal);
Next();
bIsLastValid = TRUE;
}
_variant_t newVal;
GetField(_variant_t((long)vaSortFldNdx[ndx]), &newVal);
int condition = (newVal != lastVal);
if (condition > 0)
{
RS_PutLong(FlagNdx, 1L);
/*
_variant_t vtmpbook;
GetBookmark(&vtmpbook);
vb[vbcnt] = vtmpbook;
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
vbcnt++;
*/
// debug ....
// see what current field and record;
int cf = vaSortFldNdx[ndx];
int cr = currec;
int ds = Distinct[currec];
int stophere = 0;
// end debug ....
}
else
// On first field only set Flag to 0 if not distinct...
if (ndx == 0)
RS_PutLong(FlagNdx, 0L);

Distinct[currec] += condition;
lastVal = newVal;
}
else
{
// mark lastVal as invalid...
bIsLastValid = FALSE;
}
Next();
currec++;
}
}

// See what we found ...
int dupsfound = 0;
for (i = 0; i < total_records; i++)
{
if (Distinct[i] == 0)
dupsfound++;
}

/* // Filter via Bookmarked recs
_variant_t vBookmark;
vBookmark.vt = VT_VARIANT|VT_ARRAY;

SAFEARRAYBOUND rgsabound[1];
rgsabound[0].lLbound = 0;
rgsabound[0].cElements = vbcnt; // needed ...
// Create safearrays to store array of variant
SAFEARRAY FAR *psa = SafeArrayCreate(VT_VARIANT, 1, rgsabound);
for (i = 0; i < vbcnt; i++)
SafeArrayPutElement(psa, (long *)&i, &vb[i]);
vBookmark.parray = psa;
// Filter the Record with the array of bookmarks.
Xrs_test->PutSort(_T("FieldA, FieldB, FieldC"));
Xrs_test->PutFilter(vBookmark);
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
*/
// Filter via 'FILT' field
PutFilter(Flagfld + _T(" = 1"));
// PutFilter(_T(""));
int nrecs = GetRecordCount();

// Clean up ...
/* if (vb)
delete [] vb;
*/ if (Distinct)
delete [] Distinct;

// done
return TRUE;
}

BOOL CADORsX1::DIST_CreateMap(vector <DATAMAP_REC> &vaDataMap, int *pmaxsize)
{
USES_CONVERSION;
if (m_recordset == NULL)
return FALSE;

////////////////////////////////////
// START it here .....
// *****

*pmaxsize = 0;
long total_flds;
GetFieldCount(&total_flds);

// Parse the Sort Field string (don't upper case it) ....
BSTR criteria;
m_recordset->get_Sort(&criteria);
vector <CString> vaSortFldName;
CString Sortflds = OLE2CT(criteria);
if (total_flds <= 0 || !ParseStringCSV(vaSortFldName, Sortflds, FALSE))
return FALSE;

// Get the Fields ...
Fields *fields = 0;
HRESULT hr = m_recordset->get_Fields(&fields);
// Get Field pointers ...
Field **field = new (Field(*[total_flds]));
for (int i = 0; i < total_flds; i++)
{
field[i] = 0;
if (SUCCEEDED(hr))
hr = fields->get_Item(_variant_t((long)i), &field[i]);
}
// Match up the Field names with their indexes ...
vector <int> vaSortFldNdx;
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

```
int fld_name_size = vaSortFldName.size();
for (i = 0; i < fld_name_size; i++)
{
for (int k = 0; k < total_flds; k++)
{
BSTR bname;
field[k]->get_Name(&bname);
CString fldname = OLE2CT(bname);
if (fldname == vaSortFldName[i])
{
int flen = fldname.GetLength();
if (flen > (*pmaxsize))
*pmaxsize = flen;
vaSortFldNdx.push_back(k);
break;
}
}
}
// Release references ...
for (i = 0; i < total_flds; i++)
{
if (field[i] != 0)
field[i]->Release();
}
if (fields != 0)
fields->Release();
delete [] field;

// Here we have sort string, sort order and flag field indexes ...
int SortNdx_size = vaSortFldNdx.size();
if (SortNdx_size <= 0 || fld_name_size != SortNdx_size)
return FALSE;

int nrecs = GetRecordCount();

if (vaDataMap.size() > 0)
vaDataMap.erase(vaDataMap.begin(), vaDataMap.end());

// Note - all DATAMAP_REC members initialize to -1
// vector <DATAMAP_REC> vaDataMap;
int nSecondNDX = 0;
int nCtrlNdx = 0;
BOOL blastfld = FALSE;

for (int ndx = 0; ndx < fld_name_size; ndx++)
{
if (ndx == (fld_name_size-1))
blastfld = TRUE;
First();
int currec = 0;
BOOL bfirst = TRUE;
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
_variant_t lastVal;
_variant_t newVal;

while (!IsEOF())
{
if (bfirst)
{
DATAMAP_REC dm_rec;
GetField(_variant_t((long)vaSortFldNdx[ndx]), &lastVal);

_variant_t vbookmark;
GetBookmark(&vbookmark);
dm_rec.nMapData_Rec = ((int)ConvertVarToDouble(vbookmark)) - 1;

dm_rec.nCurIndex = nCtrlNdx;
dm_rec.sMapData_FldName = vaSortFldName[ndx];
vaDataMap.push_back(dm_rec);
nCtrlNdx++;
bfirst = FALSE;

// Save the 'vector' index into the second field (for below)...
if (ndx == 1)
nSecondNDX = vaDataMap.size() - 1;
}
else
{
// Look for difference on all but the last field. For last, get them all !!
GetField(_variant_t((long)vaSortFldNdx[ndx]), &newVal);
if (newVal != lastVal || blastfld)
{
DATAMAP_REC dm_rec;

_variant_t vbookmark;
GetBookmark(&vbookmark);
dm_rec.nMapData_Rec = ((int)ConvertVarToDouble(vbookmark)) - 1;

dm_rec.sMapData_FldName = vaSortFldName[ndx];
dm_rec.nCurIndex = nCtrlNdx;
vaDataMap.push_back(dm_rec);
nCtrlNdx++;
lastVal = newVal;
}
}
Next();
}
// Put the ender on it ...
if (vaDataMap.size() > 0)
{
DATAMAP_REC dm_rec;
dm_rec.sMapData_FldName = vaSortFldName[ndx];
dm_rec.nMapData_Rec = -1;
}
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
dm_rec.nCurIndex = nCtrlNdx;
vaDataMap.push_back(dm_rec);
nCtrlNdx++;
// restart index
// nCtrlNdx = 0;
}
}
// Traverse the Map vector, fill in the the NextFld numbers ...
if (nSecondNDX > 0)
{
int curndx = 0;
int DataRec = vaDataMap[curndx].nMapData_Rec;
int nsize = vaDataMap.size();

while (nSecondNDX < nsize)
{
//int DREC = vaDataMap[nSecondNDX].nMapData_Rec + 75;
if (DataRec == vaDataMap[nSecondNDX].nMapData_Rec)
{
vaDataMap[curndx].nNextIndex = vaDataMap[nSecondNDX].nCurIndex;
//int CNDX = vaDataMap[curndx].nCurIndex;
//int NXT = vaDataMap[curndx].nNextIndex;
curndx++;
DataRec = vaDataMap[curndx].nMapData_Rec;
}
nSecondNDX++;
}
}
// done
return TRUE;
}

int SortByMapNdx (const MAPDATA_REC &arec, const MAPDATA_REC &brec)
{
if (arec.nMapNdx < brec.nMapNdx)
return true;
return false;
}

int SortByDRec (const MAPDATA_REC &arec, const MAPDATA_REC &brec)
{
if (arec.nDRec < brec.nDRec)
return true;
return false;
}

int SortByStoreData (const MAPDATA_REC &arec, const MAPDATA_REC &brec)
{
USES_CONVERSION;
switch (arec.vtStoreData.vt)
{
case VT_I2:
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
if (arec.vtStoreData.iVal < brec.vtStoreData.iVal)
return true;
break;
case VT_I4:
if (arec.vtStoreData.lVal < brec.vtStoreData.lVal)
return true;
break;
case VT_R4:
if (arec.vtStoreData.fltVal < brec.vtStoreData.fltVal)
return true;
break;
case VT_R8:
if (arec.vtStoreData.dblVal < brec.vtStoreData.dblVal)
return true;
break;
case VT_BSTR:
{
CString stra = OLE2CT(arec.vtStoreData.bstrVal);
CString strb = OLE2CT(brec.vtStoreData.bstrVal);
if (stra < strb)
return true;
break;
}
default:
break;
}
return false;
}
```

```
BOOL CADORsX1::DIST_ChangeMapUnfiltered(_RecordsetPtr &rsStore1, CString sFldStore1,
_RecordsetPtr &rsStore2, CString sFldStore2)
{
USES_CONVERSION;
// Check sizes ...
long p1, p2;
p1 = 0;
p2 = 0;
HRESULT hr = rsStore1->get_RecordCount(&p1);
hr = rsStore2->get_RecordCount(&p2);
if (!(p1 > 0 && p2 > 0 && sFldStore1.GetLength() > 0 && sFldStore2.GetLength() > 0))
return FALSE;

// Find the Store1 field name index ...
// (get the Fields)
int nFldStore1_Ndx = -1;
Fields *fields = 0;
hr = rsStore1->get_Fields(&fields);
long total_flds = 0;
fields->get_Count(&total_flds);
if (total_flds <= 0)
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
{
if (fields != 0)
fields->Release();
return FALSE;
}
// Get Field pointers ...
Field **field = new (Field(*[total_flds]));
for (int i = 0; i < total_flds; i++)
{
field[i] = 0;
if (SUCCEEDED(hr))
hr = fields->get_Item(_variant_t((long)i), &field[i]);
}
for (i = 0; i < total_flds; i++)
{
BSTR bname;
field[i]->get_Name(&bname);
CString fldname = OLE2CT(bname);
if (fldname == sFldStore1)
{
nFldStore1_Ndx = i;
break;
}
}
// Release references ...
for (i = 0; i < total_flds; i++)
{
if (field[i] != 0)
field[i]->Release();
}
if (fields != 0)
fields->Release();
delete [] field;

// Find the Store2 field name index ...
// (get the Fields)
int nFldStore2_Ndx = -1;
fields = 0;
hr = rsStore2->get_Fields(&fields);
total_flds = 0;
fields->get_Count(&total_flds);
if (total_flds <= 0)
{
if (fields != 0)
fields->Release();
return FALSE;
}
// Get Field pointers ...
field = new (Field(*[total_flds]));
for (i = 0; i < total_flds; i++)
{
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

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```
field[i] = 0;
if (SUCCEEDED(hr))
hr = fields->get_Item(_variant_t((long)i), &field[i]);
}
for (i = 0; i < total_flds; i++)
{
BSTR bname;
field[i]->get_Name(&bname);
CString fldname = OLE2CT(bname);
if (fldname == sFldStore2)
{
nFldStore2_Ndx = i;
break;
}
}
// Release references ...
for (i = 0; i < total_flds; i++)
{
if (field[i] != 0)
field[i]->Release();
}
if (fields != 0)
fields->Release();
delete [] field;
```

```
if (nFldStore1_Ndx < 0 || nFldStore2_Ndx < 0)
return FALSE;
```

```
// Advance to sFldStore1 Ctrl in this Map ...
First();
int currec = 0;
BOOL bfirst = TRUE;
_variant_t mapFldVal;
BOOL bfound = FALSE;
while (!IsEOF())
{
GetField(_variant_t((long)0L), &mapFldVal);
if (mapFldVal == _variant_t(sFldStore1))
{
bfound = TRUE;
break;
}
Next();
}
if (!bfound)
return FALSE;
```

```
// At this point we have the Store's field indexes where the data is
// and we are at that position in the Map
// -----
// Create an array of Map Data (Ctrl, Ndx, Store1[DRec])
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

```
//
vector <MAPDATA_REC> vaMap;
CString sCurCtrl = RS_GetString(0);
CString sLastCtrl = sCurCtrl;
i = 0;
while (sCurCtrl == sLastCtrl)
{
MAPDATA_REC map_rec;
map_rec.nMapNdx = i;//RS_GetLong(1); // Ndx fld
i++;
map_rec.nDRec = RS_GetLong(2); // DRec fld
if (map_rec.nDRec == -1)
break;
vaMap.push_back(map_rec);
Next();
if (IsEOF())
break;
sCurCtrl = RS_GetString(0);
}

// Sort the Map array by the DRec field ...
// note – should already be sorted!!
// sort(vaMap.begin(), vaMap.end(), SortByDRec);

// Get info from STORE1 into Map array (vtStoreData) ...
int nsize = vaMap.size();
int movecnt = 0;
for (i = 0; i < nsize; i++)
{
int curdrec = vaMap[i].nDRec;

_variant_t vbook;
vbook.vt = VT_R8;
vbook.dblVal = curdrec+1;
PutBookmark(rsStore1, vbook);

// if (i == 0)
// rsStore1->MoveFirst();
// while (movecnt < curdrec)
// {
// rsStore1->MoveNext();
// movecnt++;
// }
// if (IsEOF())
// break;

_variant_t vtstore;
GetField(rsStore1, _variant_t((long)nFldStore1_Ndx), &vtstore);
vaMap[i].vtStoreData = vtstore;
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

```
}

// Sort the Map array by the Variant field (same as Field of Store2 now) ...
sort(vaMap.begin(), vaMap.end(), SortByStoreData);

// Save Store1's Sort string, Put Sort Store1 by sFldStore1 ...
BSTR crit_Store1;
rsStore1->get_Sort(&crit_Store1);
rsStore1->put_Sort(_bstr_t(sFldStore1));

// Save Store2's Sort string, Put Sort Store2 by sFldStore2 ...
BSTR crit_Store2;
rsStore2->get_Sort(&crit_Store2);
rsStore2->put_Sort(_bstr_t(sFldStore2));

// Get indexes from STORE2 into Map array (overwrite DRec info) ...
int move2cnt = 0;
i = 0;

rsStore2->MoveFirst();
_variant_t vtStore2a;
GetField(rsStore2, _variant_t((long)nFldStore2_Ndx), &vtStore2a);
_variant_t vtMapStore = vaMap[i].vtStoreData;

while (!IsEOF(rsStore2) && i < nsize)
{
if (vtStore2a == vtMapStore)
{
// Do substitution ...
_variant_t vbook;
GetBookmark(rsStore2, &vbook);
int vbookStore2 = ((int)ConvertVarToDouble(vbook)) - 1;
// Go past dups in Map array ...
while (i < nsize && vaMap[i].vtStoreData == vtStore2a)
{
// Do substitution ...
vaMap[i].nDRec = vbookStore2;
// vaMap[i].nDRec = move2cnt;
i++;
}
if (i < nsize)
vtMapStore = vaMap[i].vtStoreData;
}
if (i < nsize)
{
// Go past dups in Store2 ...
if (!IsEOF(rsStore2))
{
_variant_t vtStore2b = vtStore2a;
while (!IsEOF(rsStore2) && vtStore2b == vtStore2a)
{
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

```
rsStore2->MoveNext();
move2cnt++;
if (!IsEOF(rsStore2))
GetField(rsStore2, _variant_t((long)nFldStore2_Ndx), &vtStore2a);
}
}
}
}

// Here the substituted indexes into Store2 are in the Map array,
// get the array info back into the Map Recordset (this) ...
// -----

// Sort the Map array by the ndx field ...
sort(vaMap.begin(), vaMap.end(), SortByMapNdx);

// Advance to sFldStore1 Ctrl in this Map ...
First();
currec = 0;
bfirst = TRUE;
while (!IsEOF())
{
GetField(_variant_t((long)0L), &mapFldVal);
if (mapFldVal == _variant_t(sFldStore1))
{
bfound = TRUE;
break;
}
Next();
}

// Do substitution ...
for (i = 0; i < nsize; i++)
{
RS_PutLong((long)2, (long)vaMap[i].nDRec); // DRec fld
Next();
if (IsEOF())
break;
}

// Put rsStore1, rsStore2 sorts back on ..
rsStore1->put_Sort(crit_Store1);
rsStore2->put_Sort(crit_Store2);

// done!
return TRUE;
}

BOOL CADORsX1::DIST_ChangeMapFiltered(_RecordsetPtr &rsStore1, CString sFldStore1, _RecordsetPtr
&rsStore2, CString sFldStore2, CString sFiltFldStore2)
```

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

Re: Please help me pass an array from VBA to Perl and populate it. Newbie at wits' end!

```
{
USES_CONVERSION;
return FALSE;
}

int CADORsX1::ParseStringCSV(vector <CString> &vaPRS, CString sString, BOOL bMakeUpper)
{
/* example: " FieldA, FieldB, FieldC " */
USES_CONVERSION;
int ncurpos = 0;
int nlastpos = 0;
int npos = 0;
if (vaPRS.size() > 0)
vaPRS.erase(vaPRS.begin(), vaPRS.end());

do {
ncurpos = sString.Find(',',nlastpos);

if (ncurpos >= 0)
npos = ncurpos;
else
if (sString.GetLength() > 0)
npos = sString.GetLength();

CString stmp = sString.Mid(nlastpos, (npos - nlastpos));
if (stmp.GetLength() > 0)
{
// ok found one, make upper and remove all peripheral spaces ..
if (bMakeUpper)
stmp.MakeUpper();
stmp.TrimRight();
stmp.TrimLeft();
vaPRS.push_back(stmp);
}
nlastpos = ncurpos+1;
} while (ncurpos >= 0);

return vaPRS.size();
}
```

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