Subject: GUID column in DB and SqlArray
Posted by LamerDrv on Sat, 12 Mar 2016 14:03:05 GMT
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Hi.

I try create simple one-form database app with two master-detail grids. I take SqlArray example as base.
But in my case the DBMS is MSSQL. And PK field in my master table and detail table is uniqueidentifier type (i.e. guid). And foreign key in detail table is uniqueidentifier.
I needn't show guid columns in SqlArray - I will show only human-readable fields.

As much as I understand, I can't provide guid field definition in sch-file. Is that right?
Is any benefits from use sch-file in project if that file providing non-full definition for my tables?
Need I use SqlArray.AddKey(ID) for primary key guid column?
What about SqlArray.Join?

Please, can you to provide small sample how to use master-detail SqlArrays whit db tables that contains guid columns?
Thanks.

Subject: Re: GUID column in DB and SqlArray
Posted by mirek on Fri, 25 Mar 2016 18:04:01 GMT
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At thid moment, uniquieidentifier is not supported. But I guess it would be easy to add to uppsrc\MSSQL\MSSQLSchema.h

It seems to behave like String for all practical purposes.... If I remember well, types not known in MSSQL are always converted to String, so it should work. You might even be able to in fact use .sch and just use STRING for GUID columns.

You do not need to "display" neither primary key nor foreign key. Just use AddKey for primary.

SqlArray.Join should work just fine.

Mirek

Subject: Re: GUID column in DB and SqlArray
Posted by LamerDrv on Sun, 27 Mar 2016 09:48:52 GMT
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Thank you for answer.
Unfortunately, it is appears that handling with GUID, SQL on Upp exceeds my knowledge

First I try direct use the COLUMN_ macros
```
TABLE_(Customer)
    COLUMN_ ("uniqueidentifier", GUID, ID, 0, 0)
...
END_TABLE
```
and get
error C2664: 'Upp::FieldOperator &Upp::FieldOperator::operator ()(const char *,Upp::Ref)': cannot convert argument 2 from 'GUID' to 'bool &'
when compiling sch-file.
As far as I understanding the data types for db-fields must support Ref.
Then I try to use the Uuid type but get same error.

Then I try to make UGLY fix) for make the Uuid be Ref-compatible:
```
struct Uuid2 : Uuid
{
 operator Ref() const {return Ref((Value)*this);}
 Uuid2& operator=(const Nuller&){SetNull(); return *this; }
};
```

After this the compiler passed sch-file
```
TABLE_(Customer)
    COLUMN_ ("uniqueidentifier", Uuid2, ID, 0, 0)
...
END_TABLE
```

But when I call SqlArray.Query() I get error:
"[Microsoft][SQL Server Native Client 11.0]Numeric value out if range"

Eventually ... I made "simple" call
SQL.Execute("select ID from Customer");
and got same error.

This error is generated by ODBC-function SQLGetData (inside "default" branch of switch in ODBCConnection::Fetch0, ODBC.cpp):
```
if(!IsOk(SQLGetData(session->hstmt, i + 1, ct, &tm, 0, &li)))
  break;
```
It is appears, Upp can't execute select query on uniquieidentifier field.
On this point I get stuck.

Subject: Re: GUID column in DB and SqlArray
Posted by LamerDrv on Sun, 27 Mar 2016 12:00:18 GMT
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I look at MS ODBC sample app (https://code.msdn.microsoft.com/ODBC-sample-191624ae)

This sample app using SQL_WCHAR datatype constant. This works (and SQL_CHAR works too) - MSSQL converts GUID to string properly. (Sample using SQLBindCol approach instead

SQLGetData)

It is strange that SQLGetData(..., ..., SQL_CHAR,...) inside Upp returns error.
I think I miss something obviously.
