
Subject: Re: sqlarray and sqlite

Posted by [jimlef](#) on Wed, 23 Sep 2020 17:57:01 GMT

[View Forum Message](#) <> [Reply to Message](#)

I realize that I've been going about this all wrong...

I've been trying to do a 1 - 1 conversion from my c# code to the c++ and U++... That's wrong thinking.

I need to embrace the U++, so I went back to the examples, and am using the book borrowing app. I've come up with the following code:

```
#include "customers.h"
#define MODEL <Invoices/Tables/Invoices.sch>
#include <Sql/sch_source.h>

#undef MODEL
class AddCustomer : public WithCustomerAddLayout<TopWindow> {
public:
    SqlCtrls ctrls;
    typedef AddCustomer CLASSNAME;
    AddCustomer();
};

/*
ITEM(Option, chkTaxable, SetLabel(t_("Taxable?")).SetFont(SansSerifZ(16)).LeftPosZ(228,
108).TopPosZ(36, 16))
ITEM(EditString, txtCustSearch, SetFont(SansSerifZ(16)).SetFrame(FieldFrame()).LeftPosZ(136,
256).TopPosZ(404, 19))
ITEM(EditString, txtCustName, SetFont(SansSerifZ(16)).SetFrame(FieldFrame()).LeftPosZ(136,
256).TopPosZ(76, 19))
ITEM(EditString, txtCustEmail, SetFont(SansSerifZ(16)).SetFrame(FieldFrame()).LeftPosZ(136,
256).TopPosZ(116, 19))
ITEM(EditString, txtCustPhone, SetFont(SansSerifZ(16)).SetFrame(FieldFrame()).LeftPosZ(136,
256).TopPosZ(156, 19))
ITEM(EditString, txtCustAddress,
SetFont(SansSerifZ(16)).SetFrame(FieldFrame()).LeftPosZ(136, 256).TopPosZ(196, 19))
ITEM(EditString, txtCustCity, SetFont(SansSerifZ(16)).SetFrame(FieldFrame()).LeftPosZ(136,
256).TopPosZ(232, 19))
ITEM(EditString, txtCustState, SetFont(SansSerifZ(16)).SetFrame(FieldFrame()).LeftPosZ(136,
256).TopPosZ(272, 19))
ITEM(EditString, txtCustZip,
MaxChars(10).SetFont(SansSerifZ(16)).SetFrame(FieldFrame()).LeftPosZ(136,
64).TopPosZ(308, 19))

STRING_ (CUSTNAME, 150) NOT_NULL
STRING_ (EMAIL, 150)
STRING_ (CONTACT, 150)
STRING_ (ADDRESS, 150)
```

```

STRING_ (CITY, 50)
STRING_ (STATE, 20)
STRING_ (ZIP, 10)
INT_ (TAXABLE) NOT_NULL
*/

```

```

AddCustomer::AddCustomer()
{
    CtrlLayoutOKCancel(*this, "Add Customer");
    ctrls
    (CUSTNAME, txtCustName)
    (EMAIL, txtCustEmail)
    (CONTACT, txtCustPhone)
    (ADDRESS, txtCustAddress)
    (CITY, txtCustCity)
    (STATE, txtCustState)
    (ZIP, txtCustZip)
    // (TAXABLE, chkTaxable)
;
}

```

```

CustomersWindow::CustomersWindow() {

```

```

    CtrlLayout(*this, "Customers");
    /*

```

```

    btnAddCustomer << [=] { btnAddCustomerClick(); }; // THISBACK is not needed in c++11 world
    and could be replaced with lambda.

```

```

    btnSearchCustomer << [=] { btnSearchCustomerClick(); }; // assisted by forum user Klugier
    btnUpdateCustomer << [=] { btnUpdateCustomerClick(); };
    */

```

```

    if(FileExists(myConfig.configfile))

```

```

    {
        VectorMap<String, String> cfg = LoadIniFile(myConfig.configfile);
        myConfig.DBFile = cfg.Get("DBFile", Null);
    }

```

```

    else {
        myConfig.DBFile = myConfig.SelectDB();
    }

```

```

    Sqlite3Session sqlite3;

```

```

    if(!sqlite3.Open(myConfig.DBFile)) {
        Exclamation("Can't create or open database file\n");
        return;
    }

```

```

SQL = sqlite3;
/*
Sql sql;
*/

CustArray.SetTable(CUSTOMERS, CUST_ID);

// CustArray.Join(BOOK_ID, book); // joins id from other db to this id
CustArray.AddColumn(CUSTNAME, "Name"); // .SetConvert(DateIntConvert());
CustArray.AddColumn(EMAIL, "Email"); // .SetConvert(DateIntConvert());
CustArray.AddColumn(CONTACT, "Phone");
CustArray.AddColumn(ADDRESS, "Address");
CustArray.AddColumn(CITY, "City");
CustArray.AddColumn(STATE, "State");
CustArray.AddColumn(ZIP, "Zip");
CustArray.AddColumn(TAXABLE, "Taxable?");
CustArray.ColumnWidths("40 40 20 50 20 15 10 5");
CustArray.Appending().NoRemoving();
CustArray.SetOrderBy(CUST_ID);

CustArray.Query();

CustArray.WhenLeftDouble = [=] { EditRow(); };

}

void CustomersWindow::EditRow()
{
int idNum;
if(!CustArray.IsCursor())
return;
idNum = CustArray.GetKey();
AddCustomer dlg;

SQL * Select(CUST_ID).From(CUSTOMERS).Where(CUST_ID == idNum);
if(!dlg.ctrls.Fetch(SQL))
return;
if(dlg.Run() != IDOK)
return;
SQL * dlg.ctrls.Update(CUSTOMERS).Where(CUST_ID == idNum);
CustArray.Query();
CustArray.FindSetCursor(idNum);
}
/*
void CustomersWindow::btnAddCustomerClick()
{

PromptOK(__func__);

```

```
}  
  
void CustomersWindow::btnUpdateCustomerClick()  
{  
    PromptOK(__func__);  
}  
  
void CustomersWindow::btnSearchCustomerClick()  
{  
    PromptOK(__func__);  
}  
*/
```

Now, when I run this, it gets to line 109:

```
SQL * Select(CUST_ID).From(CUSTOMERS).Where(CUST_ID == idNum);
```

And gives me an invalid memory access with:

?:

File Attachments

1) [latest.png](#), downloaded 541 times
