Subject: Accessing Database from multiple files
Posted by jeremy_c on Tue, 02 Jun 2009 13:23:13 GMT
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I am having a bit of problems coming up with either all my field names being either already defined:

main.obj : error LNK2005: "void __cdecl
TABLE_SUPPLIER(class Upp::SqlSchema &)"
(?TABLE_SUPPLIER@@YAXAAVSqlSchema@Upp@@@Z) already defined
in base_data.obj

Or not defined:

C:\Develop\Projects\UppApps\BeekPRO\base_data.cpp(8) :
error C2065: 'HIVE_TYPE' : undeclared identifier

What I have is BeekPRO.h (only revelant portions):

```
#define SCHEMADIALECT <plugin/sqlite3/Sqlite3Schema.h>
#define MODEL <BeekPRO/BeekPRO.sch>

#include <Sql/sch_schema.h>
#include <Sql/sch_header.h>
#include <Sql/sch_source.h>
```

I've tried moving the sch_source.h include from BeekPRO.h to BeekPRO.cpp thinking that the sch_header.h was just the definitions but sch_source.h was the actual source but that is not making a difference.

What I want is to be able to access the schema data from many .cpp files, thus, I can take an application that is getting more complex every minute and break it into smaller manageable files:

* BeekPRO.cpp - main file
* Apiary.cpp - Add/Edit/Remove apiaries
* Hive.cpp - Add/Edit/Remove hives
* Supplier.cpp - Add/Edit/Remove suppliers
* ... etc ...

Jeremy

Subject: Re: Accessing Database from multiple files
Posted by jeremy_c on Tue, 02 Jun 2009 13:47:44 GMT
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Oh, never mind. I got it:

```
// BeekPRO.h
#define SCHEMADIALECT <plugin/sqlite3/Sqlite3Schema.h>
#define MODEL <BeekPRO/BeekPRO.sch>

#include <Sql/sch_header.h>

// BeekPRO.cpp
#include <Sql/sch_schema.h>
#include <Sql/sch_source.h>
```

This allows me to include BeekPRO.h from any other .cpp file and have access to the field definitions.

Jeremy

Subject: Re: Accessing Database from multiple files
Posted by ratah on Wed, 02 Sep 2015 15:03:05 GMT
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Hi everyone,

I have this redefinition problem. Trying to do like this:

```
--- main.cpp ---
#include <Core/Core.h>
using namespace Upp;

#include "classBOOK.h"
#include "classBORROW.h"

CONSOLE_APP_MAIN
{
}

--- sqlheader.h --
#define SCHEMADIALECT <plugin/sqlite3/Sqlite3Schema.h>
#define MODEL <testsql/schema1.sch>
```

```
#include "Sql/sch_header.h"


--- classBOOK.h ----
#include <Core/Core.h>
#include <plugin/sqlite3/Sqlite3.h>
using namespace Upp;

#include "sqlheader.h"

class CBook
{
 CBook();
};

--- classBOOK.cpp ----

#include "classBOOK.h"
#include "Sql/sch_source.h"
#include "Sql/sch_schema.h"

CBook::CBook(){}

--- classBORROW.h ---
#include <Core/Core.h>
#include <plugin/sqlite3/Sqlite3.h>
using namespace Upp;

#include "sqlheader.h"

class CBorrow
{
 CBorrow();
};

--- classBORROW.cpp ---
#include "classBORROW.h"
#include "Sql/sch_source.h"
#include "Sql/sch_schema.h"

CBorrow::CBorrow(){}


I get this error
Quote:
In file included from D:\upp\uppsrc/Sql/sch_model.h:162:0,
                 from D:\upp\uppsrc/plugin/sqlite3/Sqlite3Schema.h:95,
                 from D:\upp\uppsrc/Sql/sch_header.h:38,
```

```
                 from D:\MyApps\testsql\sqlheader.h:3,
                 from D:\MyApps\testsql\classBORROW.h:8,
                 from D:\MyApps\testsql\testsql.cpp:5:
D:\MyApps/testsql/schema1.sch:1:1: error: redefinition of 'struct S_BOOK'
In file included from D:\upp\uppsrc/Sql/sch_model.h:162:0,
                 from D:\upp\uppsrc/plugin/sqlite3/Sqlite3Schema.h:95,
                 from D:\upp\uppsrc/Sql/sch_header.h:38,
                 from D:\MyApps\testsql\sqlheader.h:3,
                 from D:\MyApps\testsql\classBOOK.h:8,
                 from D:\MyApps\testsql\testsql.cpp:4:
D:\MyApps/testsql/schema1.sch:1:1: error: previous definition of 'struct S_BOOK'
In file included from D:\upp\uppsrc/Sql/sch_model.h:162:0,
                 from D:\upp\uppsrc/plugin/sqlite3/Sqlite3Schema.h:95,
                 from D:\upp\uppsrc/Sql/sch_header.h:38,
                 from D:\MyApps\testsql\sqlheader.h:3,
                 from D:\MyApps\testsql\classBORROW.h:8,
                 from D:\MyApps\testsql\testsql.cpp:5:
D:\MyApps/testsql/schema1.sch:7:1: error: redefinition of 'struct S_BORROW_RECORD'
In file included from D:\upp\uppsrc/Sql/sch_model.h:162:0,
                 from D:\upp\uppsrc/plugin/sqlite3/Sqlite3Schema.h:95,
                 from D:\upp\uppsrc/Sql/sch_header.h:38,
                 from D:\MyApps\testsql\sqlheader.h:3,
                 from D:\MyApps\testsql\classBOOK.h:8,
                 from D:\MyApps\testsql\testsql.cpp:4:
D:\MyApps/testsql/schema1.sch:7:1: error: previous definition of 'struct S_BORROW_RECORD'
testsql: 3 file(s) built in (0:03.65), 1217 msecs / file, duration = 3719 msecs, parallelization 73%

There were errors. (0:03.75)
```

Do someone can help me please to avoid redefinition.
Thanks in advanced

Subject: Re: Accessing Database from multiple files
Posted by dolik.rce on Fri, 04 Sep 2015 15:23:01 GMT
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Hi ratah,

I think your problem is that you include Sql/sch_schema.h as well. Look at it's source, you'll see that it only includes sch_header.h and sch_source.h. You should use either only sch_schema.h (usually useful only when all your sql related code is in single cpp file) or sch_header.h in your header files and sch_source.h in exactly one of your cpp files.

Best regards,
Honza
