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Subject: Schema utilities

Posted by [mirek](#) on Wed, 20 Aug 2008 10:14:05 GMT

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I recently have to deal with existing database (not created from .sch file).

To make things easier, I have added these utility functions to Sql:

```
String ExportSch(SqlSession& session, const String& database);
```

```
String ExportSch(const String& database);
```

- exports the database to .sch format

```
String ExportIds(SqlSession& session, const String& database);
```

```
String ExportIds(const String& database);
```

- exports table and column names as SQLID (or new SQL\_ID(id, sqlid) to deal with case sensitivity in mysql).

Mirek

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Subject: Re: Schema utilities

Posted by [rtmex](#) on Fri, 27 Mar 2009 20:42:54 GMT

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Hello

I'm new to Ultimate++

I have a PostgreSQL database, how can I connect to a database to create the .sch file?

I think this post of you is for doing something like that, but I don't know how to use this ExportSch function you say.

Could you put a source code example please?

Thanks in advance

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Subject: Re: Schema utilities

Posted by [mirek](#) on Sat, 28 Mar 2009 07:07:40 GMT

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[http://www.ultimatepp.org/reference\\$SQL\\_PostgreSql.html](http://www.ultimatepp.org/reference$SQL_PostgreSql.html)

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Subject: Re: Schema utilities  
Posted by [rtmex](#) on Mon, 30 Mar 2009 20:14:41 GMT  
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Hi

I know that example, but that example assumes that you already have the .sch file, and that's exactly what I want to generate by connecting to the database.  
Besides, I don't see ExportSch ExportIds in that example

Maybe I did not explain myself well the first time

I want to know how to generate the .sch file connecting to a database that already exist.  
I think that's what the ExportSch function does, I would appreciate if you can put an example of how this can be done.

Thanks in advance

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Subject: Re: Schema utilities  
Posted by [andrei\\_natanael](#) on Tue, 31 Mar 2009 11:03:12 GMT  
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I think it's pretty simple. Ignore .sch files which already exist in that example. In OpenDB() comment everything which is after //schema line (only return true should stay there). Somewhere in your program use

```
SaveFile("filename", ExportSch(m_session, "test"));  
// or  
SaveFile("filename", ExportSch("test"));  
// you may also assign content returned by ExportSch to a Upp control
```

Second version use global SQL session.

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Subject: Re: Schema utilities  
Posted by [rtmex](#) on Tue, 31 Mar 2009 20:24:41 GMT  
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Hello

I try what you said, this is my cpp file

```
#include "creabase.h"
```

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

```

#include <Sql/sch_source.h>

using namespace Upp;

creabase::creabase()
{
    CtrlLayout(*this, "Window title");
}

bool creabase::OpenDB()
{
    if(!m_session.Open("host=localhost dbname=test user=postgres password=prueba"))
    {
        Exclamation(Format("Error in open: %s", DeQtF(m_session.GetLastError())));
        return false;
    }

#ifdef _DEBUG
    m_session.SetTrace();
#endif

    SaveFile("estructura.sch", Exportsch(m_session, "test"));
    return true;
}

GUI_APP_MAIN
{
    creabase dlg;

    if(dlg.OpenDB())
    {
        dlg.Run();
    }
}

```

I'm getting the next error

error: 'Exportsch' was not declared in this scope

I think I have to add an include file but I don't know wich one, I added the Sql and PostgreSQL packages to my program.

I had to put an empty database.sch file because if I didn't, I got an error saying the file does not exist.

I'm also getting this messages when I compile the program

CtrlLib: circular 'uses' chain

CtrlLib: circular 'uses' chain

This is my .h file

```
#ifndef _creabase_creabase_h
#define _creabase_creabase_h

#include <CtrlLib/CtrlLib.h>
#include <SqlCtrl/SqlCtrl.h>

using namespace Upp;

#define LAYOUTFILE <creabase/creabase.lay>
#include <CtrlCore/lay.h>

#include <PostgreSQL/PostgreSQL.h>
#define SCHEMADIALECT <PostgreSQL/PostgreSQLSchema.h>
#define MODEL <creabase/database.sch>
#include "Sql/sch_header.h"

class creabase : public WithcreabaseLayout<TopWindow> {
public:
    typedef creabase CLASSNAME;
    creabase();
    bool OpenDB();

protected:
    PostgreSQLSession m_session;
};

#endif
```

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Subject: Re: Schema utilities

Posted by [andrei\\_natanael](#) on Wed, 01 Apr 2009 02:13:43 GMT

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rtmex wrote

```
    SaveFile("estructura.sch", Exportsch(m_session, "test"));
```

...

I'm getting the next error

error: 'Exportsch' was not declared in this scope

It's name is wrong, it should be ExportSch not Exportsch

rtmex wrote

I think I have to add an include file but I don't know which one, I added the Sql and PostgreSQL packages to my program.

I had to put an empty database.sch file because if I didn't, I got an error saying the file does not exist.

I'm also getting these messages when I compile the program

```
CtrlLib: circular 'uses' chain
```

```
CtrlLib: circular 'uses' chain
```

The only required header is SqlSchema.h.

The warnings(or errors) about "circular 'uses' chain"(i've never had such an error) , i think are because you're using "using namespace Upp" twice - once in header and once in .cpp file.

I don't have a PostgreSQL database but i've modified SQLApp example to test ExportSch. The only modifications i've made are in main.cpp.

```
// line 5
void SchExport()
{
    SaveFile("estructura.sch", ExportSch(SQL.GetSession(), ""));
}

void SQLApp::MainMenu(Bar& bar)
{
    bar.Add("ExportSch", callback(SchExport));
    // ...
}
```

If you don't get it i may make a small example, but i think it's obvious.

P.S.: use code tags(formatting tools) to make your code more readable in posts.

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Subject: Re: Schema utilities

Posted by [sduensin](#) on Wed, 28 Aug 2024 22:10:55 GMT

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Whoa. I just stumbled on this. Brilliant! Very helpful! Thank you!

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