Subject: U++ SQL Begginer
Posted by TeCNoYoTTa on Wed, 06 Aug 2008 12:15:12 GMT
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hello all

i want to make a program that have embedded database like SQLApp Example

I Tried to Understand the code but it's hard

so please give me some guide lines

Subject: Re: U++ SQL Begginer
Posted by captainc on Wed, 06 Aug 2008 14:41:10 GMT
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I'm in the middle of creating Sql Topic++ documentation. I exported the main document so far to PDF and posted it (see attached). It may provide some guidance for a start.

File Attachments
1) UppSqlTopic-inwork.pdf, downloaded 686 times

Subject: Re: U++ SQL Begginer
Posted by TeCNoYoTTa on Wed, 06 Aug 2008 15:59:55 GMT
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thanks very much .....i think it will be very useful

but i want to ask a Question ....i want to use embedded database in my program what type of database must i use

thanks

Subject: Re: U++ SQL Begginer
Posted by captainc on Wed, 06 Aug 2008 16:28:06 GMT
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Your best bet is to use SqlLite, since it will not need an installed database engine like MySQL or PostgreSQL. The database will simply be a file that sits next to your program.

Subject: Re: U++ SQL Begginer
Posted by captainc on Wed, 06 Aug 2008 20:33:08 GMT

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I did some work on the documentation. There is now 3 topic++ categories. It's basically a collection of knowledge from the forum , examples, and my own work. If anyone would like to contribute/edit/change the info, it would be great, just post back. I'll keep the working copy for now and just evolve it as we go.
See attached...

File Attachments
1) UppSqlBasicUse.pdf, downloaded 648 times
2) UppSqlIncrementalDevelopment.pdf, downloaded 643 times
3) UppSqlIntro.pdf, downloaded 673 times

Subject: Re: U++ SQL Begginer
Posted by TeCNoYoTTa on Thu, 07 Aug 2008 11:03:04 GMT
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thanks captainc

but i have a question

what is this

```
 SQL; // <------------ THIS

 Sqlite3Session sqlite3;
 if(!sqlite3.Open(ConfigFile("simple.db"))) {
  Exclamation("Can't create or open database file\n");
  return;
 }

 SQL = sqlite3;//<------------ And THIS
```

Subject: Re: U++ SQL Begginer
Posted by captainc on Thu, 07 Aug 2008 13:23:01 GMT
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Ahh, I just learned this, but there is only 1 SQL object being used in the background to manage all the sessions.

From sqls.h:

```
struct AppSql : Sql {
 void   operator=(SqlSource& s) { Assign(s); }
 void   Detach()              { Sql::Detach(); }
 AppSql() : Sql(NULLSQL) {}
};
```

```
AppSql& AppCursor();
#define SQL AppCursor()
```

When you make an Sql object, that sql object you make will actually call the global SQL object
For example, from sql.cpp:

```
Sql::Sql(const char *stmt) {
 cn = SQL.GetSession().CreateConnection();
 SetStatement(stmt);
}
```

The sqlite3 example you are referencing shows an alternate way of working with the sql packages, calling on the SQL object itself. Instead, to keep it all similar, do something like this:

```
Sqlite3Session m_session;
bool good_conn = m_session.Open("my_database_file.db");
Sql sql(m_session); //define Sql object to act on Session object m_session.
```

Notice how I used Sqlite3Session just like I used PostgreSQLSession in the tutorial example. Also, I passed the session to the Sql object as well. Here we used the Sql object's constructor instead of assigning the sqlite3 object to the global SQL object.

```
Sqlite3Session m_session;
Sql sql(m_session);
```

- instead of -

```
Sqlite3Session sqlite3;
SQL = sqlite3;
Sql sql;
```

Other than that, it should otherwise be all the same.

Subject: Re: U++ SQL Begginer
Posted by TeCNoYoTTa on Sat, 09 Aug 2008 08:09:08 GMT
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thanks captainc

but please can any one help me Understanding this code

```
void SQLApp::Query()
{
 SqlBool where;
 SqlSet borrowed = Select(BOOK_ID).From(BORROW_RECORD).Where(IsNull(RETURNED));
 if(query.status == 1)
  where = ID != borrowed;
```

```
 if(query.status == 2)
  where = ID == borrowed;
 SqlBool bdate;
 if(!IsNull(query.borrowed_from))
  bdate = BORROWED >= ~query.borrowed_from;
 if(!IsNull(query.borrowed_to))
  bdate = bdate && BORROWED <= ~query.borrowed_to;
 if(!bdate.IsEmpty())
  where = where && ID == Select(BOOK_ID).From(BORROW_RECORD).Where(bdate);
 book.Query(where);
}
```

it's from SQLApp Example

Subject: Re: U++ SQL Begginer
Posted by mirek on Sat, 09 Aug 2008 12:12:24 GMT
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Well, you are build a condition to be use after 'where', based on status of several GUI widgets. Sometimes, elsewhere, this is called "dynamic SQL".

See the query dialog in the application and then look at the method again.

Mirek

Subject: Re: U++ SQL Begginer
Posted by captainc on Sat, 09 Aug 2008 18:26:18 GMT
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What you are looking at is where the Sql Upp classes become really powerful. As Mirek said, this is dynamic sql. The idea here is that you can assign parts of queries to variables and test them out individually, or put them together to form larger queries. You see the SqlBool object represents the section of a query where you would do a comparison. So you can say this:
Suppose NAME is a column in the tables NAME_TABLE1 and NAME_TABLE2:

```
// Build query:
SqlSet queryName1 = Select(NAME).From(NAME_TABLE1);
SqlBool nameIsSame = In(NAME,queryName1);
// Finish building and run query:
sql * Select(NAME).From(NAME_TABLE2).Where(nameIsSame);
```

SQL for this example would be:

```
SELECT name FROM name_table2 WHERE name IN (SELECT name FROM name_table1)
```

Granted you can do this more efficiently with joins and the such, but you should be able to get the idea.

Subject: Re: U++ SQL Begginer
Posted by TeCNoYoTTa on Tue, 12 Aug 2008 08:31:42 GMT
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how can i give a column a default value in sqlite3

and if i want to save unix time format in database ..do i use INT or i use DOUBLE

thx in advance

Subject: Re: U++ SQL Begginer
Posted by TeCNoYoTTa on Tue, 12 Aug 2008 09:39:50 GMT
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i want also to know how to remove a row from sqlarray

i want to remove it from the sqlarray not from the database

Subject: Re: U++ SQL Begginer
Posted by captainc on Tue, 12 Aug 2008 11:19:16 GMT
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TeCNoYoTTa wrote on Tue, 12 August 2008 04:31how can i give a column a default value in sqlite3
Did you see the SQLDEFAULT keyword in the schema example from UppSqlBasicUse.pdf?

Quote:and if i want to save unix time format in database ..do i use INT or i use DOUBLE
Did you see the TIME and DATE keywords in the schema example from UppSqlBasicUse.pdf?

Subject: Re: U++ SQL Begginer
Posted by TeCNoYoTTa on Tue, 12 Aug 2008 11:30:32 GMT
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captainc wrote on Tue, 12 August 2008 14:19TeCNoYoTTa wrote on Tue, 12 August 2008 04:31how can i give a column a default value in sqlite3
Did you see the SQLDEFAULT keyword in the schema example from UppSqlBasicUse.pdf?

Quote:and if i want to save unix time format in database ..do i use INT or i use DOUBLE
Did you see the TIME and DATE keywords in the schema example from UppSqlBasicUse.pdf?

i am very sorry .....i think i saw them but i forgot them as i stopped making database and did some Http messages

sorry again

Subject: Re: U++ SQL Begginer
Posted by mirek on Tue, 12 Aug 2008 14:14:06 GMT
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TeCNoYoTTa wrote on Tue, 12 August 2008 05:39i want to remove it from the sqlarray not from the database

?

In that case, perhaps you do now want to use sqlarray in the first place.

Mirek

Subject: Re: U++ SQL Begginer
Posted by TeCNoYoTTa on Wed, 13 Aug 2008 09:18:40 GMT
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does that mean i cant do that ??

Subject: Re: U++ SQL Begginer
Posted by captainc on Wed, 13 Aug 2008 20:08:48 GMT
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What it most likely means is that your design (or at least how you are approaching the problem) is off. Your query should be doing the filtering. Also, you can use the Sql class' Begin() method to ensure changes will not be finalized until a call to Commit().

Subject: Re: U++ SQL Begginer
Posted by TeCNoYoTTa on Thu, 14 Aug 2008 11:42:39 GMT
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ok ..... i have another question

how can i get and handle sql row and if there is a datatype to save sql row in it

Subject: Re: U++ SQL Begginer
Posted by captainc on Thu, 14 Aug 2008 14:46:07 GMT
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Yes, I didn't get that far in the documentation yet... look at the examples for now, and I'll try to post an update soon to the basic use pdf.

Subject: Re: U++ SQL Begginer
Posted by mirek on Thu, 21 Aug 2008 14:52:00 GMT
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captainc wrote on Thu, 14 August 2008 10:46Yes, I didn't get that far in the documentation yet... look at the examples for now, and I'll try to post an update soon to the basic use pdf.

What about uploading to svn as .tpp?

I believe that right now, we can handle a couple of unfinished docs

Mirek

Subject: Re: U++ SQL Begginer
Posted by captainc on Thu, 21 Aug 2008 17:51:08 GMT
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Will do..

Is Infrastructure Server svn available via http ports? I cannot use other ports while at work and behind firewall...

If not, I'll check it in later when at home.

Subject: Re: U++ SQL Begginer
Posted by mirek on Thu, 21 Aug 2008 19:16:32 GMT
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No, sorry, at the moment, no http access.

Mirek

Subject: Re: U++ SQL Begginer
Posted by TeCNoYoTTa on Sun, 31 Aug 2008 08:47:18 GMT
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i want to know how to make combined primary key in Sqlite3