Subject: Application with two different databases schema
Posted by forlano on Fri, 08 May 2020 15:41:44 GMT
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Hello,

I have a program that stores data on a local Sqlite3 db. Moreover it needs to connect to an online MySql db.
Can this scenario be managed? In case of affermative answer how to do it? It is convenient to have one .sch file or two?...

After trying several possibilities, to avoid error from CLANG (many duplicate and redefinition), I found a solution that is accepeted by CLANG. I am using a single .SCH file with the definition of the two dbs. In a .h file I have

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

#define SCHEMADIALECT2 <MySql/MySqlSchema.h>

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

Then in a .cpp file I used

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

It compiles but the program crash immediately.
I am sure I am doing weird things. Which is the correct way to do it?

Thanks,
Luigi

Subject: Re: Application with two different databases schema
Posted by forlano on Sat, 09 May 2020 01:00:03 GMT
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I have done new experiments. What provoked the crash was something else now fixed.
Now I have declared

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

#include <Sql/sch_header.h>

and

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

The code related the sqlite3 db works but I have not yet connected the online MySql db. Still remain the doubts about what I am doing and if I must wait some drawback.

Luigi

Subject: Re: Application with two different databases schema
Posted by slashupp on Sat, 09 May 2020 10:13:38 GMT
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Hi Luigi

I wrote the following on github: https://github.com/slashmais/dbsqlite3
that I use for all my data, maybe you find something useful. This works
very well for me for a while now.

Sorry for the lack of description in readme, I still need to make
time & energy to tidy-up all these projects

hth

Subject: Re: Application with two different databases schema
Posted by forlano on Sat, 09 May 2020 10:46:36 GMT
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slashupp wrote on Sat, 09 May 2020 12:13Hi Luigi

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that I use for all my data, maybe you find something useful. This works
very well for me for a while now.
hth

Thank you for the reply.
I saw you did something interesting for sqlite3. I'll use something in future.
My problem now is different. I am working with two db simultaneously: sqlite3 and mysql. Each of them has its own .sch file. The problem is how to declare and use them without mix up the code.

Thanks,
Luigi

Subject: Re: Application with two different databases schema
Posted by mirek on Mon, 11 May 2020 08:21:30 GMT
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I think that there are 2 separate issues:

- Session

and

- Schema

WRT to Session, things get complicated here as you cannot obviously use global session (the one assigned with SQL = statement) for both databases.

This is no showstopper - Sql instances have constructor form with SqlSession as parameter while default Sql constructors are using global session.

Usually one DB is "dominant" for the application. In that case, it makes sense to assign global session for dominant database connection and use constructor with parameter for secondary one.

Now for the schema issue. Obviously, you need two schema files and import each one with its dialect, also duplicate all other details you need.
Simply #undef SCHEMADIALECT after the include and define a new value for it.

I will try to make a reference example for this...

Mirek

Subject: Re: Application with two different databases schema
Posted by forlano on Mon, 11 May 2020 10:08:15 GMT
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mirek wrote on Mon, 11 May 2020 10:21I think that there are 2 separate issues:

- Session

and

- Schema

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This is no showstopper - Sql instances have constructor form with SqlSession as parameter while default Sql constructors are using global session.

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Now for the schema issue. Obviously, you need two schema files and import each one with its dialect, also duplicate all other details you need.
Simply #undef SCHEMADIALECT after the include and define a new value for it.

I will try to make a reference example for this...

Mirek

Thanks for the reply.
I do not use SQL, so the I have no problem with sessions. I can use both, but currently with the same .SCH. Moreover when I create a new db of course appear tables not wanted belonging to the other db.

My problems is how to deal with two schema.
I have just tried to duplicate the code

```
#define SCHEMADIALECT <plugin/sqlite3/Sqlite3Schema.h>
#define MODEL <OrionVR/db.sch>
#include <Sql/sch_header.h>

#undef SCHEMADIALECT
#undef MODEL

#define SCHEMADIALECT <MySql/MySqlSchema.h>
#define MODEL <OrionVR/db2.sch>
#include <Sql/sch_header.h>
```

but the compiler signal error.
Luigi

Subject: Re: Application with two different databases schema
Posted by mirek on Wed, 13 May 2020 09:24:26 GMT
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Please check new reference/SQL_MultiDB.

Also needed to fix some destruction issues for SQL....

Subject: Re: Application with two different databases schema
Posted by forlano on Wed, 13 May 2020 13:49:03 GMT
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mirek wrote on Wed, 13 May 2020 11:24Please check new reference/SQL_MultiDB.

I tried it and seems to work properly. The code was a bit tricky for me, but I was able to follow the right path.
Thanks a lot!

Luigi

Subject: Re: Application with two different databases schema
Posted by JeyCi on Wed, 02 Jun 2021 11:11:01 GMT
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mirek wrote on Wed, 13 May 2020 11:24Please check new reference/SQL_MultiDB.....
SQL_MultiDB is really helpful. Thanks!