
Subject: ExportSch, zero byte file is the result
Posted by [jeremy_c](#) on Thu, 11 Jun 2009 02:15:48 GMT
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I'm unable to make this work. I connect to the database just fine, query the database just fine, but when I do this:

```
SaveFile("mydb.sch", ExportSch(SQL.GetSession(), "mydb"));
```

I wind up with mydb.sch that is 0 bytes.

Jeremy

Subject: Re: ExportSch, zero byte file is the result
Posted by [mirek](#) on Thu, 11 Jun 2009 17:10:49 GMT
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Well, I have recently (2 weeks ago) used this code to study the schema of existing database:

```
#include <MySql/MySql.h>

using namespace Upp;

CONSOLE_APP_MAIN
{
    MySqlSession session;
    // substitute your 'username' and 'password' here:
    if(!session.Connect("root", "heslo", "test", "10.0.0.19")) {
        printf("Can't connect with MySql\n");
        return;
    }
    Sql sql(session);
    sql.Execute("use test");
    sql.Execute("show tables");
    while(sql.Fetch())
        Cout() << (String)sql[0] << '\n';
    SaveFile("u:/lego.sch", ExportSch(session, "test"));
    SaveFile("u:/legoid", ExportIds(session, "test"));
}
```

and it seems to have worked well....

Mirek

Subject: Re: ExportSch, zero byte file is the result
Posted by [jeremy_c](#) on Fri, 12 Jun 2009 12:30:48 GMT
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Ok, I found the problem, it's specific to PostgreSQL. The query that gets run to enum the tables is:

```
select n.nspname || '.' || c.relname
from pg_catalog.pg_class c
     left join pg_catalog.pg_namespace n on n.oid = c.relnamespace
where c.relkind = 'r' and
     n.nspname like 'mydb' and
     pg_catalog.pg_table_is_visible(c.oid)
```

When I call:

```
ExportSch(session, "mydb");
```

There is no namespace named "mydb". It's named "public". Here's an example output:

```
mydb=> SELECT n.nspname,n.oid FROM pg_catalog.pg_namespace n;
 nspname      | oid
-----+-----
 pg_catalog   |    11
 pg_toast     |    99
 pg_temp_1    | 11052
 pg_toast_temp_1 | 11053
 information_schema | 11313
 public       |   2200
 pg_temp_34   | 23600075
 pg_toast_temp_34 | 23600076
(8 rows)
```

Only the tables that are in the current database are accessible. So, anything public is really what's in the connected database. If I change my code to read:

```
ExportSch(session, "public");
```

even though I am connected to "mydb", then the schema is dumped.

I ran your code that you posted above (with a PostgreSQLSession instead) and it writes a 0 byte file. Doing what is above in this message causes everything to work.

Jeremy

Subject: Re: ExportSch, zero byte file is the result
Posted by [jeremy_c](#) on Fri, 12 Jun 2009 12:32:25 GMT
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Oh, I forgot to say that the schema gets exported as:

```
TABLE_(public.roles)
  STRING (name, 20)
  STRING (description)
END_TABLE
```

i.e. everything has public.

Jeremy

Subject: Re: ExportSch, zero byte file is the result
Posted by [jeremy_c](#) on Fri, 10 Jul 2009 17:30:32 GMT
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Any thoughts on having to give the database name for MySQL but having to give "public" for PostgreSQL? also the fact that it writes the table names such as public.table_name not just table_name ?

Jeremy

Subject: Re: ExportSch, zero byte file is the result
Posted by [mirek](#) on Sun, 12 Jul 2009 07:32:57 GMT
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jeremy_c wrote on Fri, 10 July 2009 13:30Any thoughts on having to give the database name for MySQL but having to give "public" for PostgreSQL? also the fact that it writes the table names such as public.table_name not just table_name ?

Jeremy

If you post a path, I will include it.

Anyway, this is really simple utility function used for very special reasons. I am content with it as it works now.

In fact, originally I have written it only for my one time own purposes, only including it because it does not really affect anything else and might be useful for others.

(Maybe I should have uploaded it to bazaar?)

Mirek

Subject: Re: ExportSch, zero byte file is the result
Posted by [jeremy_c](#) on Sun, 12 Jul 2009 13:43:52 GMT
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luzr wrote on Sun, 12 July 2009 03:32
If you post a path, I will include it.

Anyway, this is really simple utility function used for very special reasons. I am content with it as it works now.

In fact, originally I have written it only for my one time own purposes, only including it because it does not really affect anything else and might be useful for others.

Ok. I'll work up a patch.

luzr wrote on Sun, 12 July 2009 03:32
(Maybe I should have uploaded it to bazaar?)

I think you did right. It will be of help to many, many people. I don't think it will be hard to make it work properly on different databases.

Jeremy
