Subject: Call external funcions in SQL
Posted by koldo on Thu, 12 Sep 2013 16:37:07 GMT
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Hello all

I wanted to ask you how to call an external function from SQL.

For example, doing:
SQL & ::Select(SqlAll()).From(TABLE).Where(DATE < GetSysTime()));

in the SQL it will always appear the origonal time, so if I call the query one hour later, the time will remain.
What I would need is that GetSysTime() were called every time the query is called.

Subject: Re: Call external funcions in SQL
Posted by dolik.rce on Thu, 12 Sep 2013 17:23:22 GMT
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koldo wrote on Thu, 12 September 2013 18:37Hello all

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For example, doing:
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What I would need is that GetSysTime() were called every time the query is called.
Hi Koldo,

If you use the query as you posted it should evaluate the GetSysTime() each time you call it. The only problem might be if you stored the query for later or multiple execution. I mean something like:SqlSelect sel = Select(SqlAll()).From(TABLE).Where(DATE < GetSysTime());
// .. and one hour later or in some function
SQL & sel;
SQL.Fetch();
If you do that, than the easiest way would be to either create the query each time just before executing.

If I misunderstood something about the problem, please post bit more of the code, so I can get better idea what is the problem.

Also, if you really need what the title says, I'm not aware how to call user defined C++ functions in Sql, unless it is SQLite. If you are interested in that, I can post couple examples But it should not be necessary for you, judging by the example code you posted.

Best regards,
Honza

Subject: Re: Call external funcions in SQL
Posted by mirek on Thu, 12 Sep 2013 18:19:41 GMT
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Also worth noting that SQL engines usually have means to specify current time/date (e.g. in PostgreSQL, CURRENT_DATE).

(Perhaps we should somewhat represent it in SqlExp... adding to RM).

Mirek

Subject: Re: Call external funcions in SQL
Posted by Zbych on Thu, 12 Sep 2013 18:29:43 GMT
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koldo wrote on Thu, 12 September 2013 18:37SqlSelect sel =
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// .. and one hour later or in some function
SQL & sel;
SQL.Fetch();
If you do that, than the easiest way would be to either create the query each time just before executing.

or let database check current time for you:

Postgres:
SqlSelect sel = Select(SqlAll()).From(TABLE).Where(DATE < SqlTxt("NOW()");

Subject: Re: Call external funcions in SQL
Posted by koldo on Thu, 12 Sep 2013 21:09:34 GMT
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Thank you. You are all right

I have seen

SQLITE
SELECT datetime('now');
SELECT CURRENT_TIMESTAMP

SQL_SERVER
SELECT CURRENT_TIMESTAMP
SELECT {fn NOW()}
SELECT GETDATE()

I would like to add it to Redmine.

Subject: Re: Call external funcions in SQL
Posted by koldo on Fri, 13 Sep 2013 05:58:51 GMT
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It is added!. Thank you Mirek.

Subject: Re: Call external funcions in SQL
Posted by koldo on Fri, 13 Sep 2013 11:57:14 GMT
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Meanwhile this works in Sqlite:

(DATE_TIME >= SqlTxt("(datetime('now'))")) &&
(DATE_TIME < (SqlTxt("(datetime('now','+5 day'))"))

Subject: Re: Call external funcions in SQL
Posted by koldo on Mon, 30 Sep 2013 10:49:00 GMT
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A detail to add

If you use local time, it is necessary to add 'localtime'. For example:

(DATE_TIME < (SqlTxt("(datetime('now','localtime','+5 day'))"))
