Subject: [sql] Select embeded in join
Posted by Zbych on Tue, 18 Aug 2009 21:08:25 GMT
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Hi,

I need to embed select inside left join. I've found AsValue function, but I could not find anything that converts SqlSelect to SqlId, so I added this:
SqlId AsTable(SqlId table) const { return SqlId(String("(") << text << ")").As(table); }
to class SqlSelect.

Maybe it doesn't look to good, but it works.

Subject: Re: [sql] Select embeded in join
Posted by Zbych on Wed, 19 Aug 2009 14:32:17 GMT
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One more thing. Right now, when I use AsValue of Select inside Insert:

sql & Insert(USERS)(USER_OID, Select(OID).From(PG_ROLES).Where(ROLNAME == User.GetData()).AsValue())(USER_NAME, Name.GetData())(USER_SURNAME, Surname.GetData());

sql string looks like this:

insert into USERS(USER_OID, USER_NAME, USER_SURNAME) values (select oid from pg_roles where rolname = 'aaaaaaaa', 'aaaaa', 'aaaaaaa')
There should be another pair of parentheses around select, so AsValue should look like this:
SqlVal AsValue() const { return SqlVal(String("(") << text << ")", SqlVal::LOW); }

Subject: Re: [sql] Select embeded in join
Posted by mirek on Fri, 21 Aug 2009 12:30:58 GMT
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Zbych wrote on Tue, 18 August 2009 17:08Hi,

I need to embed select inside left join. I've found AsValue function, but I could not find anything that converts SqlSelect to SqlId, so I added this:

SqlId AsTable(SqlId table) const { return SqlId(String("(") << text << ")").As(table); }
to class SqlSelect.

Maybe it doesn't look to good, but it works.

Would it be possible to use other type as return value?

The problem is that the way SqlId works, all 'ids' are stored *permanently* (and then only integer indexes to the permanent Index are used). Means, using SqlId here could be considered a sort of leak...

Mirek

Subject: Re: [sql] Select embeded in join
Posted by Zbych on Fri, 21 Aug 2009 13:59:09 GMT
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luzr wrote on Fri, 21 August 2009 14:30
Would it be possible to use other type as return value?

All joins expect SqlId type, so it can be any type that can be converted to SqlId. I tried it with String and it works fine:

String AsTable(SqlId table) const { return String("(") << text << ") as " << table.ToString(); }

But maybe all joins should be overloaded and accept SqlSelect?

Sqlexp.h:

```
class SqlSelect {
[...]
private:
 SqlSelect& LeftJoin0(const char * item);
[...]
public:
 SqlSelect& LeftJoin(SqlId table) {return LeftJoin0(~table);}
 SqlSelect& LeftJoin(SqlSelect select) {return LeftJoin0(~select);}
[...]
 String  ToString() const { return text; }
 String  operator~() const { return ToString(); }
[...]
 SqlSelect & AsTable(SqlId table);
[...]
```

SqlStatement.cpp:

```
SqlSelect& SqlSelect::LeftJoin0(const char * item) {
 text << " left outer join " << item;
 return *this;
}


SqlSelect & SqlSelect::AsTable(SqlId table)
{
 text = String("(") <<  text << ") as " << ~table;
 return *this;
}
```

Subject: Re: [sql] Select embeded in join
Posted by mirek on Mon, 24 Aug 2009 08:58:29 GMT
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Zbych wrote on Wed, 19 August 2009 10:32
String("(") << text << ")"

Note: This does not work in GCC, you need

String("(").Cat() << text << ")"

Subject: Re: [sql] Select embeded in join
Posted by mirek on Mon, 24 Aug 2009 13:45:36 GMT
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Well, there does not seem to be ideal solution (w.r.t. parameter type of Join).

Anyway, there already is a precendent with From(SqlSet). Therefore I have added SqlSet variants to Joins. AsTable returns SqlSelect (which has conversion to SqlSet).

Please check, I hope this solves the problem.

Mirek

Subject: Re: [sql] Select embeded in join
Posted by Zbych on Fri, 28 Aug 2009 10:06:31 GMT
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luzr wrote on Mon, 24 August 2009 15:45Please check, I hope this solves the problem.

Sorry for the delay. I've checked new version and it appears that postgres doesn't like double brackets. Query like this one:
select COLUMN
 from TABLE
 left outer join
 ((select COLUMN from TABLE1) as TABLE2)
 on TABLE.COLUMN = TABLE1.COLUMN1

is not accepted, so I had to remove "+1" from join:
SqlSelect& LeftJoin(const SqlSet& set) { return LeftJoin0(~set(SqlSet::SETOP /*+ 1*/)); }

Subject: Re: [sql] Select embeded in join
Posted by mirek on Fri, 28 Aug 2009 22:18:50 GMT
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Zbych wrote on Fri, 28 August 2009 06:06luzr wrote on Mon, 24 August 2009 15:45Please check, I hope this solves the problem.

Sorry for the delay. I've checked new version and it appears that postgres doesn't like double brackets. Query like this one:
select COLUMN
 from TABLE
 left outer join
 ((select COLUMN from TABLE1) as TABLE2)
 on TABLE.COLUMN = TABLE1.COLUMN1

is not accepted, so I had to remove "+1" from join:
SqlSelect& LeftJoin(const SqlSet& set) { return LeftJoin0(~set(SqlSet::SETOP /*+ 1*/)); }

ok.