
Subject: PostgreSQL: serious mistake when call GetInsertedId()

Posted by [sergeynikitin](#) on Tue, 30 Sep 2014 22:24:57 GMT

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In a function body of GetInsertedId() it is supposed that the field name of primary key will always have the name id.

```
Value PostgreSQLConnection::GetInsertedId() const
{
    Sql sql("select currval('" + last_insert_table + "_id_seq")", session);
    if(sql.Execute() && sql.Fetch())
        return sql[0];
    else
        return Null;
}
(uppsrc/PostgreSQL/PostgreSQL.cpp)
```

But in a case when it not so, becomes difficult an audible error.

SQL expression for request of a column of primary key here:

```
SELECT
    pg_attribute.attname,
    format_type(pg_attribute.atttypid, pg_attribute.atttypmod)
FROM pg_index, pg_class, pg_attribute
WHERE
    pg_class.oid = 'TABLENAME'::regclass AND
    indrelid = pg_class.oid AND
    pg_attribute.attrelid = pg_class.oid AND
    pg_attribute.attnum = any(pg_index.indkey)
    AND indisprimary
```

Respectively I suggest to modify function. For example so:

```
Value PostgreSQLConnection::GetInsertedId() const
{
    String sqlc_expr;
    sqlc_expr <<
    "SELECT " <<
    "pg_attribute.attname " <<
    "FROM pg_index, pg_class, pg_attribute " <<
    "WHERE " <<
    "pg_class.oid = " << last_insert_table << "::regclass AND " <<
    "indrelid = pg_class.oid AND " <<
    "pg_attribute.attrelid = pg_class.oid AND " <<
    "pg_attribute.attnum = any(pg_index.indkey) " <<
    "AND indisprimary" ;
    Sql sqlc( sqlc_expr );
    if( !(sqlc.Execute() && sqlc.Fetch()) )
```

```
    return Null;
    Sql sql("select currval('" + last_insert_table + "_" +AsString(sqlc[0])+"_seq'", session);
    if(sql.Execute() && sql.Fetch())
        return sql[0];
    else
        return Null;
}
```
