
Subject: Re: PROPOSAL: Access to S_* Structure of TABLE crash Application.
Posted by [Sender Ghost](#) on Fri, 18 May 2012 18:35:15 GMT

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sergeynikitin wrote on Thu, 17 May 2012 14:49 Maybe enclose TABLE into separate class, and NAME clashes automatically gone away?

No. It depends on how concrete database works. In case of SQLite, the U++ wrapper uses `sqlite3_column_name` function to assign column names. From the documentation of `sqlite3_column_name` function we see:

Column Names In A Result Set[...]

These routines return the name assigned to a particular column in the result set of a SELECT statement.

[...]

The name of a result column is the value of the "AS" clause for that column, if there is an AS clause. If there is no AS clause then the name of the column is unspecified and may change from one release of SQLite to the next.

[...]

Therefore, to resolve column name clashes the user need to specify "AS" clause for clashing column names.

The correct example will look like follows:

```
LOG("Inserting values:");
SQL * Insert(WORKER)(ID, 0)(NAME, "Joe")(LASTNAME, "Smith")(PLANT_ID, 0);
LOG(SQL.ToString());
SQL * Insert(WORKER)(ID, 1)(NAME, "Mike")(LASTNAME, "Smith")(PLANT_ID, 0);
LOG(SQL.ToString());
SQL * Insert(WORKER)(ID, 2)(NAME, "Jon")(LASTNAME, "Goober")(PLANT_ID, 1);
LOG(SQL.ToString());
```

```
SQL * Insert(PLANT)(ID, 0)(NAME, "First Plant")(ADDRESS, "First st.");
LOG(SQL.ToString());
SQL * Insert(PLANT)(ID, 1)(NAME, "Second Plant")(ADDRESS, "Second st.");
LOG(SQL.ToString());
```

```
LOG("Selecting values:");
SQLID(PLANT_NAME);
SQL * Select(WORKER(NAME, LASTNAME), PLANT(NAME).As(PLANT_NAME),
PLANT(ADDRESS)).From(WORKER).LeftJoin(PLANT).On(WORKER(PLANT_ID) ==
PLANT(ID));
LOG(SQL.ToString());
while (SQL.Fetch()) {
    LOG("-----");
    DUMP(SQL[NAME]); DUMP(SQL[LASTNAME]);
    DUMP(SQL[PLANT_NAME]); DUMP(SQL[ADDRESS]);
}
```

With following output:

Inserting values:

```
insert into WORKER(ID, NAME, LASTNAME, PLANT_ID) values (0, 'Joe', 'Smith', 0)
```

```
insert into WORKER(ID, NAME, LASTNAME, PLANT_ID) values (1, 'Mike', 'Smith', 0)
```

```
insert into WORKER(ID, NAME, LASTNAME, PLANT_ID) values (2, 'Jon', 'Goober', 1)
```

```
insert into PLANT(ID, NAME, ADDRESS) values (0, 'First Plant', 'First st.')
```

```
insert into PLANT(ID, NAME, ADDRESS) values (1, 'Second Plant', 'Second st.')
```

Selecting values:

```
select WORKER.NAME, WORKER.LASTNAME, PLANT.NAME PLANT_NAME,  
PLANT.ADDRESS from WORKER left outer join PLANT on WORKER.PLANT_ID = PLANT.ID
```

```
SQL[NAME] = Joe
```

```
SQL[LASTNAME] = Smith
```

```
SQL[PLANT_NAME] = First Plant
```

```
SQL[ADDRESS] = First st.
```

```
SQL[NAME] = Mike
```

```
SQL[LASTNAME] = Smith
```

```
SQL[PLANT_NAME] = First Plant
```

```
SQL[ADDRESS] = First st.
```

```
SQL[NAME] = Jon
```

```
SQL[LASTNAME] = Goober
```

```
SQL[PLANT_NAME] = Second Plant
```

```
SQL[ADDRESS] = Second st.
```