Posted by Giorgio on Wed, 27 Jan 2016 09:00:12 GMT
View Forum Message <> Reply to Message

Hi there,
MySql rdbms do not have a boolean value type. According to the current documentation BOOL or
BOOLEAN "types are synonyms for TINYINT(1). A value of zero is considered false. Nonzero
values are considered true" and that should be used to store boolean values. I noticed that this
introduce a little problem. For instance, I have a table containing machinists IDs and a bunch of
tinyint fields: if the field is "true" (i.e. nonzero value) the machinist can operate a certain machine. I
tested it putting some values:

ID Name M1 M2 M3
'001' 'Titus' '1' '0' '2'
'002' 'Caius' '0' '1' '1'
'003' 'Sempronius' '1' '0' '0'

According to the documentation the following query should return 001 and 002: "Select ID, From
MACHINISTS Where M3 = true;", but actually it returns only 002. If I use the following query:
"Select ID, From MACHINISTS Where M3 is true;" I get correct results, i.e. 001 and 002. So
MySql is picky, but is coherent.

Get back to Ultimate++ now. I have a SqlArray control that manages that table. I need to edit the
M1, M2, M3 fields. So I used lines like the following:

EditInt m01abil, m02abil, m03abil;
[...]
tblMachinist.AddColumn(M1, "Abil. M01",10).Edit(m01abil);

And that's fine, but when I query the db:

query * Select(ID, NAME).From(MACHINISTS).Where(M! == true);
while (query.Fetch())
{
 Oper1.Set(i, (String)query[ID], (String)query[NAME]);
 i++;
}

I get just 002. So if the user puts 2 instead of 1 there are problem. To solve that I modified the
code managing the SqlArray. Now it reads (note the type of variables):

Option m01abil, m02abil, m03abil;
[...]

tblMachinist.AddColumn(M1, "Abil. M01",10).Edit(m01abil);

I tried to declare in the .sch files the M1 fields both as BOOL and INT, but every time I have problem querying the db: if M3 is not 1 it is considered false.
Using an option type to me solved the issue, as users can not put values different from zero or one.
I do not know if ultimate++ can manage this kind of issue, but as I spent some time to figure this out I decided to share my solution.
Regards,
Giorgio