
Subject: Sql Avg delivers String instead of double
Posted by [masu](#) on Wed, 30 Jul 2014 21:38:45 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi,

I noticed in one of my programs that with MySQL the Avg() function on a field delivers a String type and not a double type result in response Value.

Here is the sql query I use:

```
SQL * Select( field1,
    Avg(field2), Count(field2),
    Avg(field3), Count(field3))
    .From(table1);
```

The DB schema is defined in a .sch file and all fields have sql type INT.
Surprisingly Count() in SQL[2] and SQL[4] delivers an expected numeric type (double) in this case which is converted to int automatically when using Value.

But I get a String in SQL[1] and SQL[3] which should also contain double type Value.

What is the reason for it to have String type instead of double?
Can somebody point me to the code location where SQL[] Value are assigned from DB response?

Regards
Matthias

Subject: Re: Sql Avg delivers String instead of double
Posted by [mirek](#) on Thu, 31 Jul 2014 13:27:58 GMT
[View Forum Message](#) <> [Reply to Message](#)

The problem might be in bool MySqlConnection::Execute();

See the switch there, I suspect that Avg returns some type that is not recognized there, so 'default' non-conversion to String takes the place.

After brief googling, could you please try to add FIELD_TYPE_NEW_DECIMAL to double section?

```
for(int i = 0; i < fields; i++) {
    MYSQL_FIELD *field = mysql_fetch_field_direct(result, i);
    SqlColumnInfo& f = info[i];
    f.name = field->name;
    switch(field->type) {
        case FIELD_TYPE_TINY:
```

```
case FIELD_TYPE_SHORT:  
case FIELD_TYPE_LONG:  
case FIELD_TYPE_INT24:  
    f.type = INT_V;  
    break;  
case FIELD_TYPE_LONGLONG:  
case FIELD_TYPE_DECIMAL:  
case FIELD_TYPE_FLOAT:  
case FIELD_TYPE_DOUBLE:  
case FIELD_TYPE_NEW_DECIMAL: // <<<<<<<<<<<< THIS IS NEW...  
    f.type = DOUBLE_V;  
    break;  
case FIELD_TYPE_DATE:  
    f.type = DATE_V;  
    break;  
case FIELD_TYPE_DATETIME:  
case FIELD_TYPE_TIMESTAMP:  
    f.type = TIME_V;  
    break;  
case FIELD_TYPE_VAR_STRING:  
case FIELD_TYPE_STRING:  
    convert[i] = true;  
default:  
    f.type = STRING_V;  
    break;  
}  
f.width = field->length;  
f.scale = f.precision = 0;  
}
```

Subject: Re: Sql Avg delivers String instead of double
Posted by [masu](#) on Thu, 31 Jul 2014 17:47:21 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi Mirek,

adding a line with FIELD_TYPE_NEWDECIMAL (with MariaDB) did the trick.
Can you add it to MySql.cpp?

Thanks!

Regards
Matthias

Subject: Re: Sql Avg delivers String instead of double
Posted by [mirek](#) on Fri, 01 Aug 2014 06:16:52 GMT

[View Forum Message](#) <> [Reply to Message](#)

Excellent, applied.

Mirek

Subject: Re: Sql Avg delivers String instead of double
Posted by [masu](#) on Fri, 01 Aug 2014 07:22:40 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi Mirek,

you missed in my reply that the type is

`FIELD_TYPE_NEWDECIMAL`

and not

`FIELD_TYPE_NEW_DECIMAL`

Regards

Matthias

Subject: Re: Sql Avg delivers String instead of double
Posted by [mirek](#) on Fri, 01 Aug 2014 15:09:30 GMT

[View Forum Message](#) <> [Reply to Message](#)

Ops, thanks.

Mirek
