
Subject: Re: PostgreSQL does not handle BOOL correctly [BUG+PATCH]

Posted by [omari](#) on Wed, 04 Oct 2023 16:50:57 GMT

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I managed to resolve this bug,
here is my solution:

Sql/SqlExp.h:

line 67:

```
enum {  
    SQLC_IF = 1,  
    SQLC_ELSEIF = 2,  
    SQLC_ELSE = 3,  
    SQLC_ENDIF = 4,  
    SQLC_DATE = 5,  
    SQLC_TIME = 6,  
    SQLC_STRING = 7,  
    SQLC_BINARY = 8,  
    SQLC_ID = 9, // '\t'  
    SQLC_OF = 10,  
    SQLC_AS = 11,  
    SQLC_COMMA = 12,  
    SQLC_BOOL = 13,      +++  
};
```

Line 99:

```
String SqlFormat(int x);  
String SqlFormat(bool x);      +++  
String SqlFormat(double x);  
String SqlFormat(int64 x);
```

Line 212:

```
class SqlVal : public SqlS, Moveable<SqlVal> {  
public:  
    ...  
  
    SqlVal(int x);  
    SqlVal(bool x);      +++  
    SqlVal(int64 x);  
    SqlVal(double x);  
    ...
```

```
};
```

Sql/SqlVal.cpp:
line 128: ADD

```
SqlVal::SqlVal(bool x) {  
    if(UPP::IsNull(x))  
        SetNull();  
    else  
        SetHigh(SqlFormat(x));  
}
```

Sql\SqlCode.cpp
Line 146: ADD

```
case SQLC_BOOL: {  
    LTIMING("SqlCompile BOOL");  
    bool x;  
    ReadSqlValue(x, s);  
    if(!r) break;  
    if(IsNull(x)) {  
        *r << "NULL";  
        break;  
    }  
    switch(dialect) {  
    case PGSQL:  
        *r << ( x ? "1" : "0");  
        break;  
    default:  
        *r << ( x ? "1" : "0");  
    }  
    break;  
}  
case SQLC_DATE: {
```

Line 429: ADD

```
String SqlFormat(bool x)  
{  
    return MakeSqlValue(SQLC_BOOL, x);  
}
```

and change the next function:

```
String SqlFormat(const Value& x)
{
    if(x.IsNull()) return "NULL";
    switch(x.GetType()) {
    case BOOL_V:
        return SqlFormat((bool) x);    +++
    case INT_V:
        return SqlFormat((int) x);
    case INT64_V:
        return SqlFormat((int64) x);
    case DOUBLE_V:
```
