
Subject: template + convert problem

Posted by [sergeynikitin](#) on Sat, 19 Sep 2009 12:14:55 GMT

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I make a table in which multiple fields of reference from other tables. The mapping of the field from another table I made with the converter.

Now it looks as follows:

converts.h

```
struct ConvCompany : Convert
{
    virtual Value Format(const Value& q) const;
};
```

```
struct ConvNomencl : Convert
{
    virtual Value Format(const Value& q) const;
};
```

```
struct ConvManager : Convert
{
    virtual Value Format(const Value& q) const;
};
```

converts.cpp:

```
Value ConvCompany::Format(const Value &q) const
{
    if(q.IsNull()) return Null;
    static VectorMap<int, String> comp;
    static Time lastcleartime;
    if(GetSysTime()-lastcleartime > 600){
        comp.Clear();
        lastcleartime=GetSysTime();
    }
    int f = comp.Find(int(q));
    if(f >= 0){
        return comp[f];
    } else {
        Sql sql;
        sql * Select(COM_NAME).From(COMPANY).Where(COM_ID == q);
        String company;
        if(sql.Fetch()) {
            int sid = int(q);
```

```

    company = sql[COM_NAME];
    comp.Add(sid, company);
} else {
    company = "";
}
return company;
}
}

```

Value ConvNomencI::Format(const Value& q) const

```

{
if(q.IsNull()) return Null;
static VectorMap<int, String> nom;
static Time lastcleartime;
if(GetSysTime()-lastcleartime > 600){
    nom.Clear();
    lastcleartime=GetSysTime();
}
int f = nom.Find(int(q));
if(f >= 0){
    return nom[f];
} else {
    Sql sql;
    sql * SqlSelect(NOM_ID,NOM_NAME).From(NOMENCL).Where(NOM_ID == q);
    String nomencI;
    if(sql.Fetch()) {
        int sid = sql[NOM_ID];
        nomencI = sql[NOM_NAME];
        nom.Add(sid, nomencI);
    } else {
        nomencI = "";
    }
    return nomencI;
}
}

```

Value ConvManager::Format(const Value &q) const

```

{
if(q.IsNull()) return Null;
static VectorMap<int, String> man;
static Time lastcleartime;
if(GetSysTime()-lastcleartime > 600){
    man.Clear();
    lastcleartime=GetSysTime();
}
int f = man.Find(int(q));
if(f >= 0){
    return man[f];
} else {

```

```

Sql sql;
sql * SqlSelect(USR_REALNAME).From(USER).Where(USR_ID == q);
String manager;
if(sql.Fetch()) {
    int sid = int(q);
    manager = sql[USR_REALNAME];
    man.Add(sid, manager);
} else {
    manager = "";
}
return manager;
}
}

```

These converters differ only in the name of the table and field names. I want this to be in the form of a template, something like:

```

template <SqlId TBL ,SqlId ID, SqlId NAME,int CLEARTIME>
struct ConvDict : Convert
//ConvDict<COMPANY,COM_ID,COM_NAME,600>()
{
    virtual Value Format(const Value& q) const {
        if(q.IsNull()) return Null;
        static VectorMap<int, String> dict;
        static Time lastcleartime;
        if(GetSysTime()-lastcleartime > CLEARTIME){
            dict.Clear();
            lastcleartime=GetSysTime();
        }
        int f = dict.Find(int(q));
        if(f >= 0){
            return dict[f];
        } else {
            Sql sql;
            sql * Select(NAME).From(TBL).Where(ID == q);
            String s;
            if(sql.Fetch()) {
                int sid = int(q);
                s = sql[NAME];
                dict.Add(sid, s);
            } else {
                s = "";
            }
            return s;
        }
    }
};

```

But this code is not compiled, wrote that at this point can not be applied Sqlld.

Can someone experienced with this?

How do make a template for the Converter, or Display?
