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 ConvNomencl::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 nomencl;
  if(sql.Fetch()) {
   int sid = sql[NOM_ID];
   nomencl = sql[NOM_NAME];
   nom.Add(sid, nomencl);
  } else {
   nomencl = "";
  }
  return nomencl;
 }
}

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 SqlId.

Can someone experienced with this?

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