
Subject: Global Sqllds
Posted by [BioBytes](#) on Sat, 23 Apr 2016 13:21:07 GMT
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Hello,

Is there a way to define global Sqllds to be used in different h and cpp files in the same project ?

I have defined Sqllds in mainwindow header but I cannot use them in another window file which is used in main cpp.

Maybe a silly question

Regards
Biobytes

Subject: Re: Global Sqllds
Posted by [mirek](#) on Sat, 21 May 2016 17:16:24 GMT
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Sure. You just have to follow c++ rules - declare extern in .h, then place definition in some .cpp.

Subject: Re: Global Sqllds
Posted by [BioBytes](#) on Wed, 25 May 2016 12:10:12 GMT
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Hi Mirek,

Thank you for sending some time to reply to such obvious question

My mistake was to make confusion with Pascal.

Sorry to insist but I have some difficulty with declaration of Sqlld

I tried this code in a IVDCCommon.h header.

```
#ifndef _IVDCCommon_IVDCCommon_h
#define _IVDCCommon_IVDCCommon_h
```

```
extern Sqlld DIRTBL,ALL,ID,PART,
    DIRINDEX,SUBINDEX,LIBELLE,
    NORMTBL,IDNORM,NORMTITLE,NORMTYPE,
    HARMONIZED,STATUS,NORMCODE,
    STATTBL,IDST,DESIGN,
```

```

NORMTPTBL,IDTYPE,STANDTYPE,
DEVTBL,IDDEVI,NAMEDEV,REFDEV,DESDEV,
CLASSDEV,CONFDEV,AFFDEV,STATUSDEV,
AFFTBL,IDAFF,NAMEAFF,IDSTD,IDDIR,
DOCTBL,IDDOC,IDDEV,IDDIRD,NAMEDOC,DESDOC,TYPEDOC,
HISTOTBL,IDH,IDDEVH,MODIF,DATEMODIF,RESPMODIF,
CLASSTBL,IDCLAS,NAMECLASS,
CONFTBL,IDCONF,NAMECONF,
SIGNTBL,IDSIGN,LOGON,FIRSTNAME,LASTNAME,SIGNNAME;
#endif

```

For the cpp files, here is the example of the main cpp file (of course IVDCommon.h is added in main header

```

IVDManager::IVDManager()
{
    CtrlLayout(*this, t_("Outil gestion Exigences Essentielles 16.03"));
    Icon(IVDImages::lvdMain);
    SetRect(10,10,GetScreenSize().cx-150,GetScreenSize().cy-100);
    CenterScreen().Sizeable().Zoomable();

    IvdBackImg.Set(IVDImages::lvdLogo);

    AddFrame(IvdMenuBar);
    AddFrame(IvdToolBar);
    AddFrame(TopSeparatorFrame());

    IvdImageDisplay.setConnectionStatus(false);
    IvdImageInfoCtrl.Set(PaintRect(IvdImageDisplay));
    IvdStatusBar.AddFrame(IvdImageInfoCtrl.Left(30));
    IvdStatusBar.Set(0,t_("Pas de connexion en cours"),150);

    AddFrame(IvdStatusBar);
    AddFrame(BottomSeparatorFrame());

    IvdMenuBar.Set(THISBACK1(IvdSetMainMenu,false));
    WhenClose = THISBACK(IvdQuitApp);

    SqlIId DIRTBL("DIRECTIVE"),ALL("*"),ID("ID"),PART("PART"),
        DIRINDEX("DIRINDEX"),SUBINDEX("SUBINDEX"),LIBELLE("LIBELLE"),

    NORMTBL("NORMES"),IDNORM("IDNORM"),NORMTITLE("NORMTITLE"),NORMTYPE("NORM
    TYPE"),
        HARMONIZED("HARMONIZED"),STATUS("STATUS"),NORMCODE("NORMCODE"),
        STATTBL("STATUSDES"),IDST("IDST"),DESIGN("DESIGNATION"),
        NORMTPTBL("NORMETYPE"),IDTYPE("IDTYPE"),STANDTYPE("STANDTYPE"),

```

```
DEVTBL("DEVICES"),IDDEVI("IDDEV"),NAMEDEV("NAMEDEV"),REFDEV("REFDEV"),DESDEV("DESDEV"),
```

```
CLASSDEV("CLASSDEV"),CONFDEV("CONFDEV"),AFFDEV("AFFDEV"),STATUSDEV("STATUSDEV"),
```

```
AFFTBL("AFFECTATION"),IDAFF("IDAFF"),NAMEAFF("NAMEAFF"),IDSTD("IDSTD"),IDDIR("IDDIR"),
```

```
DOCTBL("DOCUMENTS"),IDDOC("IDDOC"),IDDEV("IDDEV"),IDDIRD("IDDIRD"),NAMEDOC("NAMEDOC"),DESDOC("DESDOC"),TYPEDOC("TYPEDOC"),
```

```
HISTOTBL("HISTORIQUE"),IDH("IDH"),IDDEVH("IDDEVH"),MODIF("MODIF"),DATEMODIF("DATEMODIF"),RESPMODIF("RESPMODIF"),  
    CLASSTBL("CLASSES"),IDCLAS("IDCLAS"),NAMECLASS("NAMECLASS"),  
    CONFTBL("CONFORMITY"),IDCONF("IDCONF"),NAMECONF("NAMECONF"),
```

```
SIGNTBL("SIGN"),IDSIGN("IDSIGN"),LOGON("LOGON"),FIRSTNAME("FIRSTNAME"),LASTNAME("LASTNAME"),SIGNNAME("SIGNNAME");  
}
```

```
GUI_APP_MAIN
```

```
{  
    String LNGStr = Tokenize2(LNGAsText(GetSystemLNG()), " ");  
    SetLanguage(LNGFromText(LNGStr));  
    SetLNGCharset(LNGFromText(LNGStr),CHARSET_UTF8);
```

```
    IVDManager().Run();  
}
```

When building the project, the compiler complains that "DIRTBL,ID,PART, DIRINDEX,SUBINDEX,LIBELLE, NORMTBL,IDNORM,NORMTITLE,NORMTYPE, HARMONIZED,STATUS,NORMCODE, STATTBL,IDST,DESIGN, NORMTPTBL,IDTYPE,STANDTYPE, DEVTBL,IDDEVI,NAMEDEV,REFDEV,DESDEV, CLASSDEV,CONFDEV,AFFDEV,STATUSDEV, AFFTBL,IDAFF,NAMEAFF,IDSTD,IDDIR, DOCTBL,IDDOC,IDDEV,IDDIRD,NAMEDOC,DESDOC,TYPEDOC, HISTOTBL,IDH,IDDEVH,MODIF,DATEMODIF,RESPMODIF, CLASSTBL,IDCLAS,NAMECLASS, CONFTBL,IDCONF,NAMECONF, SIGNTBL,IDSIGN,LOGON,FIRSTNAME,LASTNAME,SIGNNAME" are duplicated (!).

Sorry to bother you with this question but I am a bit lost

Regards
Biobytes

Subject: Re: Global Sqllds
Posted by [mirek](#) on Sun, 05 Jun 2016 16:19:10 GMT
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Strange, I would expect compiler to complain about them undefined, rather than duplicated (because you have them just as local variables of constructor).

Subject: Re: Global Sqllds
Posted by [BioBytes](#) on Sun, 05 Jun 2016 19:45:11 GMT
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Hello Mirek,

Thank you for your reply. Error happens when linking. See the error message below.

IVDManager: 5 file(s) built in (0:41.60), 8321 msec / file, duration = 43244 msec, parallelization 0%

Linking...

LINK :

D:\Installations\Compilateurs\upp\out\MyApps-bazaar\MSC15.Debug.Debug_Full.Gui.Mt.Mysqldll\

IVDManager.exe not found or not built by the last incremental link; performing full link

IVDmain.obj : error LNK2005: "class Upp::Sqlld DIRTBL" (?DIRTBL@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj

IVDmain.obj : error LNK2005: "class Upp::Sqlld ALL" (?ALL@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj

IVDmain.obj : error LNK2005: "class Upp::Sqlld ID" (?ID@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj

IVDmain.obj : error LNK2005: "class Upp::Sqlld PART" (?PART@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj

IVDmain.obj : error LNK2005: "class Upp::Sqlld DIRINDEX" (?DIRINDEX@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj

IVDmain.obj : error LNK2005: "class Upp::Sqlld SUBINDEX" (?SUBINDEX@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj

IVDmain.obj : error LNK2005: "class Upp::Sqlld LIBELLE" (?LIBELLE@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj

IVDmain.obj : error LNK2005: "class Upp::Sqlld NORMTBL" (?NORMTBL@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj

IVDmain.obj : error LNK2005: "class Upp::Sqlld IDNORM" (?IDNORM@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj

IVDmain.obj : error LNK2005: "class Upp::Sqlld NORMTITLE"

(?NORMTITLE@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld NORMTYPE"
(?NORMTYPE@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld HARMONIZED"
(?HARMONIZED@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld STATUS" (?STATUS@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld NORMCODE"
(?NORMCODE@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld STATTBL" (?STATTBL@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDST" (?IDST@@@3VSqlld@Upp@@A) already
defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld DESIGN" (?DESIGN@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld NORMTPTBL"
(?NORMTPTBL@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDTYPE" (?IDTYPE@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld STANDTYPE"
(?STANDTYPE@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld DEVTBL" (?DEVTBL@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDDEVI" (?IDDEVI@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld NAMEDEV"
(?NAMEDEV@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld REFDEV" (?REFDEV@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld DESDEV" (?DESDEV@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld CLASSDEV"
(?CLASSDEV@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld CONFDEV"
(?CONFDEV@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld AFFDEV" (?AFFDEV@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld STATUSDEV"
(?STATUSDEV@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld AFFTBL" (?AFFTBL@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDAFF" (?IDAFF@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld NAMEAFF"
(?NAMEAFF@@@3VSqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDSTD" (?IDSTD@@@3VSqlld@Upp@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDDIR" (?IDDIR@@@3VSqlld@Upp@@A) already

defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld DOCTBL" (?DOCTBL@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDDOC" (?IDDOC@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDDEV" (?IDDEV@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDDIRD" (?IDDIRD@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld NAMEDOC"
(?NAMEDOC@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld DESDOC" (?DESDOC@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld TYPEDOC"
(?TYPEDOC@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld HISTOTBL"
(?HISTOTBL@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDH" (?IDH@@@3VSqlld@Upp@@@A) already
defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDDEVH" (?IDDEVH@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld MODIF" (?MODIF@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld DATEMODIF"
(?DATEMODIF@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld RESPMODIF"
(?RESPMODIF@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld CLASSTBL"
(?CLASSTBL@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDCLAS" (?IDCLAS@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld NAMECLASS"
(?NAMECLASS@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld CONFTBL"
(?CONFTBL@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDCONF" (?IDCONF@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld NAMECONF"
(?NAMECONF@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld SIGNTBL" (?SIGNTBL@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld IDSIGN" (?IDSIGN@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld LOGON" (?LOGON@@@3VSqlld@Upp@@@A)
already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld FIRSTNAME"
(?FIRSTNAME@@@3VSqlld@Upp@@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld LASTNAME"

(?LASTNAME@@3Sqlld@Upp@@A) already defined in \$blitz.obj
IVDmain.obj : error LNK2005: "class Upp::Sqlld SIGNNAME"
(?SIGNNAME@@3VSqlld@Upp@@A) already defined in \$blitz.obj

Compiler is MSC15, Upp version 9896 and OS is Win 7.

Hope it can help

Regards
Biobytes

Subject: Re: Global Sqllds
Posted by [mirek](#) on Mon, 06 Jun 2016 09:03:41 GMT
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You must have something else messed that is not visible from code you have posted.

I have prepared simple demonstration for you. There are two additional tricks demonstrated:

- ID1 is 'plain and simple' raw C++ example. It 'renames' ID1 to represent different name.
- ID2 is similar but using SQLID macro so that you do not have to repeat the name of columns as string literal
- ID3, NAME, SURNAM are defined using 'multi-include' trick, means you just have to list ID in single place (ids.i file here)

Hope this help. If not, you are beyond help

Mirek

File Attachments

1) [SqlIDS.zip](#), downloaded 606 times

Subject: Re: Global Sqllds
Posted by [BioBytes](#) on Mon, 06 Jun 2016 19:39:13 GMT
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Thank you a lot Mirek for the examples.

I modify my code accordingly asap

Thx again

