Subject: Multiple fields primary key
Posted by unodgs on Thu, 14 Sep 2006 09:08:25 GMT
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Is there any way to create primary kay from more than one fields using schama files?

This not work..

```
TABLE_(TEST)
  INT_ (ID) PRIMARY_KEY
  INT_ (VERSION) PRIMARY_KEY
  .....
END_TABLE
```

If from any reason previous form would be hard to implement mayby form below would be easier..

```
TABLE_(TEST)
  INT_ (ID)
  INT_ (VERSION)
  .....
  PRIMARY_KEY (ID, VERSION)
END_TABLE
```

Subject: Re: Multiple fields primary key
Posted by unodgs on Thu, 14 Sep 2006 09:48:49 GMT
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I didn't write it but I meant OleDB...
Anyway I found that in Oracle schema (as well as in Sqlite3) there is DOUBLE_PRIMARY_KEY macro.
I copied it to OleDBSchema.h and mofied my sch file to look like this:

```
TABLE_(PERSON)
 INT_ (ID)
 INT_ (VER) DUAL_PRIMARY_KEY(ID, VER)
 STRING_ (NAME, 40)
END_TABLE
```

I removed all previously generated sql files (and table from db too) and run the test app. Now sql files have inside:

S_SQL-OleDb.sql

```
create table PERSON (
   ID                integer,
   VER                 integer, primary key (ID, VER),
   NAME                varchar(40)
);
```

U_SQL-OleDb.sql

```
create table PERSON (
   ID                integer
);

alter table PERSON add  VER                 integer;
alter table PERSON alter column     VER                 integer, primary key (ID, VER);
alter table PERSON add  NAME                varchar(40);
alter table PERSON alter column     NAME                varchar(40);
```

SD_SQL-OleDb.sql

```
drop table PERSON;
```

Other genereated files were empty.

Syntax of S_Sql-OleDb.sql is correct for ms sql server 2005. Unfortunately it seems like upp always executes upgrade script which does not create primary key from two fields.

Code I use to perform schema changes:

```
 Cout() << "Performing schema changes...\n";
 SqlSchema sch(MSSQL);
 StdStatementExecutor se(db);
 All_Tables(sch);
 if(sch.ScriptChanged(SqlSchema::UPGRADE))
 {
  Cout() << "Upgrading...\n";
  OleDBPerformScript(sch.Upgrade(), se);
 }
 if(sch.ScriptChanged(SqlSchema::ATTRIBUTES))
 {
  Cout() << "Attributes...\n";
  OleDBPerformScript(sch.Attributes(), se);
 }
 if(sch.ScriptChanged(SqlSchema::CONFIG))
```

```
{
 Cout() << "Configuration...\n";
 OleDBPerformScript(sch.ConfigDrop(), se);
 OleDBPerformScript(sch.Config(), se);
}
sch.SaveNormal();
```

Subject: Re: Multiple fields primary key
Posted by mirek on Thu, 14 Sep 2006 18:12:57 GMT
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unodgs wrote on Thu, 14 September 2006 05:48I Syntax of S_Sql-OleDb.sql is correct for ms sql server 2005. Unfortunately it seems like upp always executes upgrade script

Because you do not execute it. Use SqlScheam::SCHEMA to execute the "schema" script.

However, I thing that adding dual primary keys (and maybe even single primary keys) should be the property of "ATTRIBUTES" script too. In other words, "underdevelopment". Could you fix that?

BTW, if you have better idea for dual key (and other multi-key) "syntax", do not keep it secret...

Mirek
