

QSqlMonitor

Author: *Radu Fiser*

Subject: *Open Source programming*

Faculty of Electrical Engineering

Czech Technical University in Prague

Description of the project

Name: QsqlMonitor

Description: OpenSource Qt GUI tool for SQL server administration. Supports Firebird, MySQL, SQLite, PostgreSQL database servers

Developer: Ing. František Vacek

Version: 1.3

Homepage:

<http://sourceforge.net/projects/qsqlmon/>

QSqlMon can do?

- Connect to database(MySQL, Sqlite, PostgreSQL, Firebird)
 - Manage database tables
 - Run SQL queries and scripts
 - Visualize SQL queries results in datagrids
 - Inline edition of the data form datagrids and saving of changes to database(delete, add rows)
 - Exports data from datagrids to CVS, HTML, XML

QSQL Monitor

Server Sql Help

Connections tree

Description

- information_schema
- cdcol
- contactlist
- forum
- memory
- memoryst
- person
- milop
- mishop
- mssqlunicko

qsqlmon

help_keyword_id name

1	0	MIN
2	1	JOIN
3	2	SERIALIZABLE
4	3	REPLACE
5	4	RETURNS
6	5	MASTER_SSL_C
7	6	NCHAR
8	7	COLUMNS
9	8	WORK
10	9	DATETIME
11	10	MODE
12	11	OPEN
13	12	INTEGER

SELECT * FROM mysql.help_keyword

325 rows

help_topic_id help_keyword_id

1	377	0
2	280	1
3	349	2
4	329	3
5	126	4
6	147	5
7	335	6
8	271	7
9	108	8
10	298	9
11	61	10
12	280	10
13	77	11

SELECT * FROM mysql.help_topic

518 rows

database: " on root@localhost driver: QMMSQL codec: memory

4/29/10

QT SQL Monitor

Server Sql View Help

Connections tree

Description	Host	Database	Driver
LinkZilla	radu@localhost	linkzilla	QPSQL
Cucurigu	root@localhost	mysql	QMYSQ

Automaticky nastavit sirky sloupcu

- Setridit vzestupne
- Setridit sestupne
- Znovu nacist data Ctrl+R
- Vlozit radek Ctrl+Ins
- Odstranit oznacene radky Ctrl+Del
- Ulozit zmeny v radku Ctrl+Return
- Vratit zmeny v radku Ctrl+Z
- Vlozit kopii radku Ctrl+D
- Insert rows statement**
- Ulozit BLOB
- Nacist BLOB se souboru
- Set NULL in selection Ctrl+Shift+L
- Set value in selection
- Zobrazit text bunky Ctrl+Shift+T
- Calculate
- Export
- Import

rows

SQL

```
SELECT ALL FROM USER;
```

Sq Info

not connected ...

4/29/10

Technical details

- Qt toolkit <http://qt.nokia.com/>
- C++
- Mingw for win32
- Multiplatform(Windows, Linux)

Task description

- Design *.rpm (Red Hat, Centos, Fedora, openSUSE) install packages
- Design *.deb install packages (Debian, Ubuntu, Kubuntu)

Building manually application

Problems encountered:

- project had compile errors
- project contains absolute path to dependencies it needs
 - design errors (a custom QSqliteDriver was extended from the class `<QtSql/private/qsqlcachedresult_p.h>` which is not part of Qt API)

Building rpm install packs (1)



BUILD



RPMS



SOURCES



SPECS



SRPMS

Building rpm install packs (2)

qsqlmon.spec presentation

Evaluation results

- Created unique *qsqlmon.spec* file that give possibility to create *.rpm install packages for Fedora, Red Hat, CentOS, openSUSE.
- Created and installed successfully rpms
Fedora 12(32bit and 64 bit), openSUSE 11.2

Future work

- Creation of *.deb install packaged
- Change of qsqlmon.pro according to new task