

Series 1: Making Database Software is Easy with Java.....

# Java Database Tool GoenDB Ver 1.0



Volume 1.0

by

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# Introduction

- This volume 1, will bring you to the world of java programming to create a software which connected to a database easily
- It's help you to know how to make a link to databases system, save properties,dump and do a query of what you want
- help you to learn how to make generic database viewer and tool in java
- And also give you an idea to design java swing components to any software that you want to create !

# The Snapshot of GoenDB

## Menu

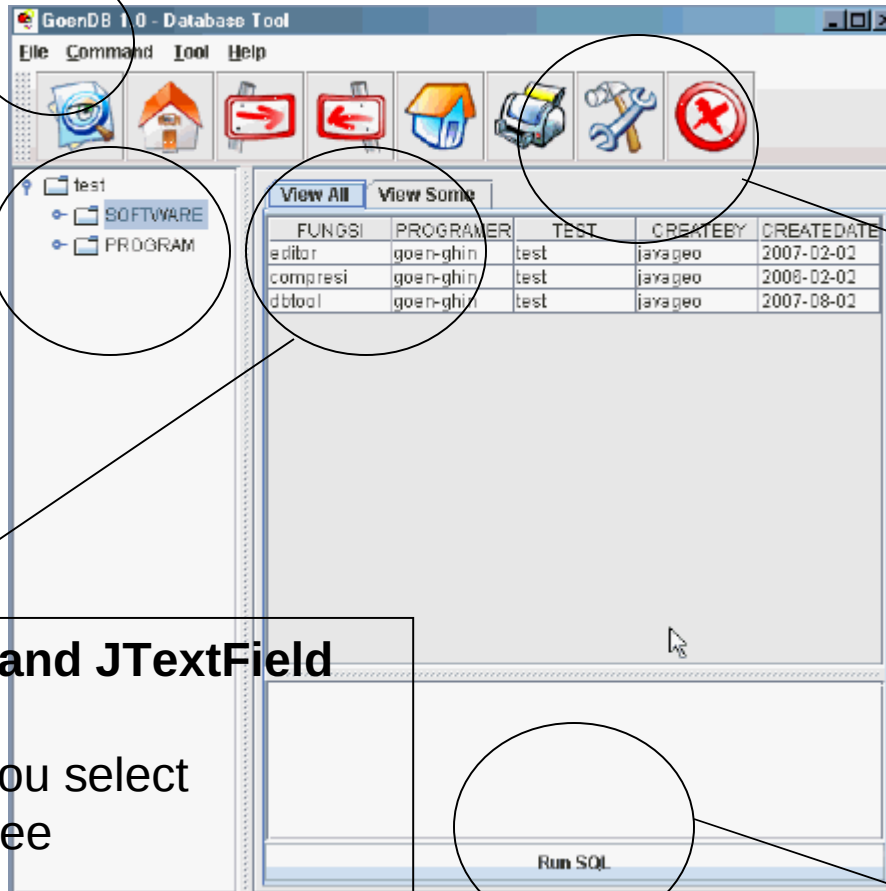
Help you to  
Select a method

## JTree

To View database  
And it Fields  
automatically

## JTabpane- JTable and JTextField

- View Table in  
2 Different ways if you select  
Database at the JTree
  - 5. View on JTable
  - 6. View on JTextField
- It's load table automatically and view it



## ToolBar

Help you to  
Select a method

## JTextField and JButton

It's ask you a query  
And run it

# Class and Method

## Class

GoenDBn

MyToolbar

MyTableSQL

## Method

createMenuBar()

getSomeData(String myTable)

JPanelSetting( final JFrame j)

loadSetting()

showNextRow()

showBackRow()

showFirstRow()

showLastRow()

actionPerformed(ActionEvent ae)

getConnection()

warnme(String message)

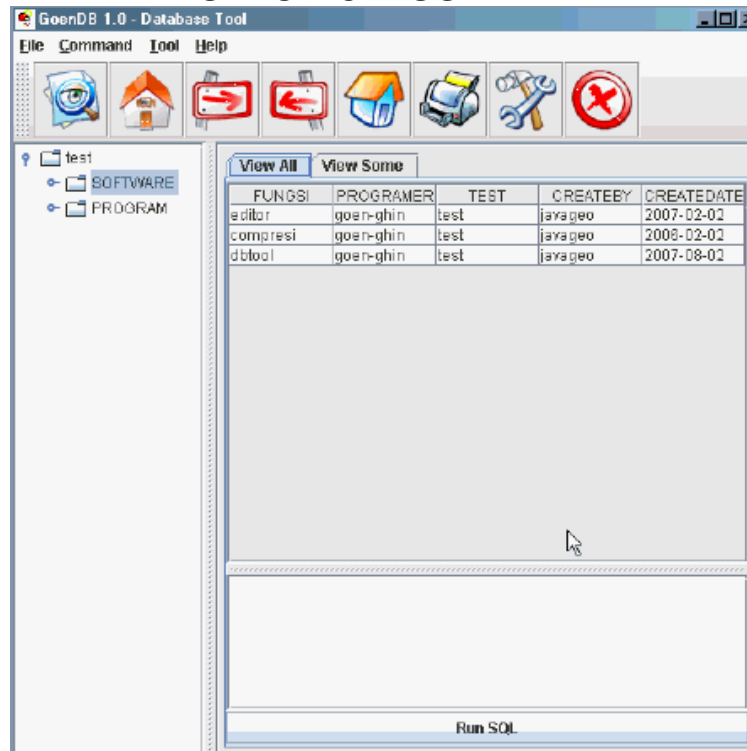
dump()

loadLah()

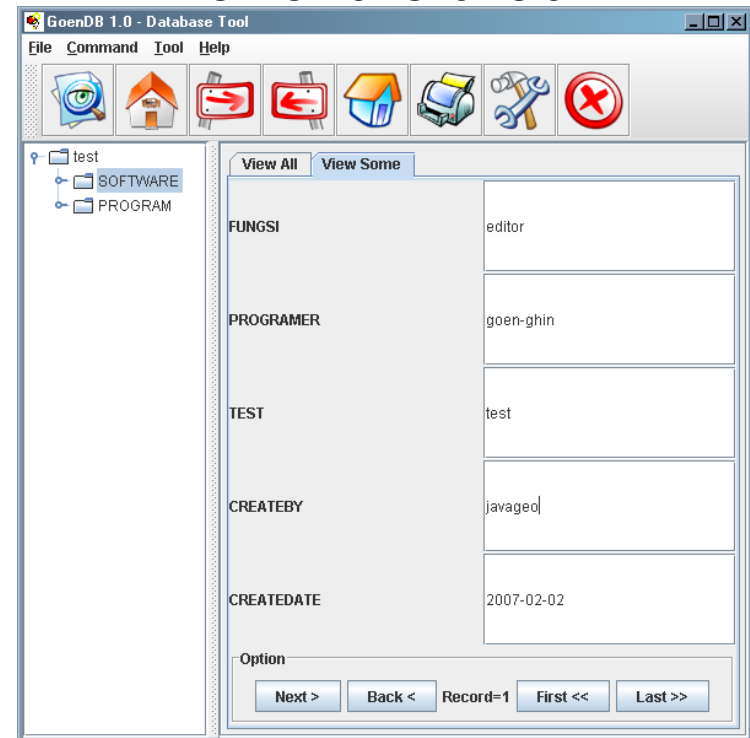
runSQL(String mySQL)

# Database and Table View

View on JTree



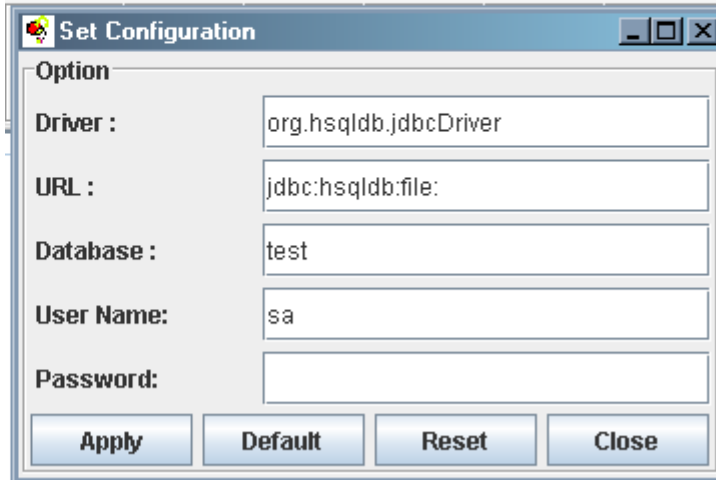
View on JTextField



If you select database on the JTree (left side) you will view the table  
First tab is for View in Jtable and second to view in Jtextfield

For view some: You can use next,back,first and last in toolbar or on bottom of panel

# Setting a connection



Use menu bar of toolbar to load database connection setting

```
public void loadSetting()
```

```
{  
  try {
```

```
    goenDBprops = new Properties();  
    FileInputStream in = new FileInputStream(sfile);  
    goenDBprops.load(in);  
    driverTextfield.setText(goenDBprops.getProperty("jdbc.drivers"));  
    urlTextfield.setText(goenDBprops.getProperty("jdbc.url"));  
    databaseTextfield.setText(goenDBprops.getProperty("jdbc.database"));  
    useridTextfield.setText(goenDBprops.getProperty("jdbc.username"));  
    passwdTextfield.setText(goenDBprops.getProperty("jdbc.password"));  
  } catch (Exception ex) {warnme(""+ex.getMessage());}
```

```
}
```

# saveSetting() and Properties File

```
public void saveSetting()
{
    try
    {
        FileOutputStream outfl = new FileOutputStream(sfile);
        goenDBprops.setProperty("jdbc.drivers",driverTextfield.getText());
        goenDBprops.setProperty("jdbc.url",urlTextfield.getText());
        goenDBprops.setProperty("jdbc.database",databaseTextfield.getText());
        goenDBprops.setProperty("jdbc.username",useridTextfield.getText());
        goenDBprops.setProperty("jdbc.password",passwdTextfield.getText());
        goenDBprops.save(outfl,"GoenDB Ver 1.0 Pekanbaru 2007 - Properties File ");
        outfl.close();
    }
    catch (IOException ex)
    { warnme(""+ex.getMessage()); }
}
```

Using HSQL database-  
Or you can set to  
Other database system

```
#GoenDB Ver 1.0 Pekanbaru 2007 - Properties File
#Thu Jul 19 01:56:48 ICT 2007
jdbc.url=jdbc\:hsqldb\:file\:
jdbc.database=test
jdbc.username=sa
jdbc.drivers=org.hsqldb.jdbcDriver
jdbc.password=
```

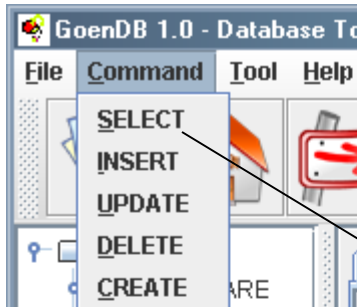
Note: if you change the connection  
It's not automatically apply but need to exit and run GoenDb again.  
Will fixed next version....

# Query

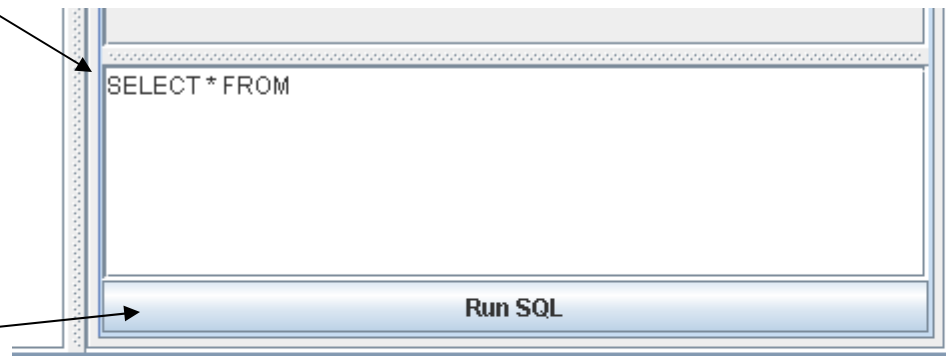
There are commands for query ...

You can select a query in menu Command

Then it will give you the query inside JTextField for runSQL



Click then insert the command to the query box



Click here then

You can run your Query ..

Result will display on Jtablel (at the top)

# Dump

- Run in menu tool -> dump or toolbar number 6 (print image)
- After you did a query you can dump the resul to a text file – called dump.txt

```
-----  
FUNGSI = editor  
-----  
FUNGSI = compresi  
-----  
FUNGSI = dbtool  
-----
```

A dump.txt for select query

# Source Code

- The completed source code is at <http://javageo.com>
- Or inside the directory GoenDB in file javageo group.
- You can download the source code...  
Play ,Modify and be succesfull with it...!  
Good luck !!

See you on next volume and series !!



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