Load & Store Form Grid Data Using Bean Shell Form Binder

This post explains how to load / read data from Form Grid using Bean Shell Form Binder. This can be handy if you need to load / store grid data from multiple tables.

Load Binder -> Bean Shell Form Binder

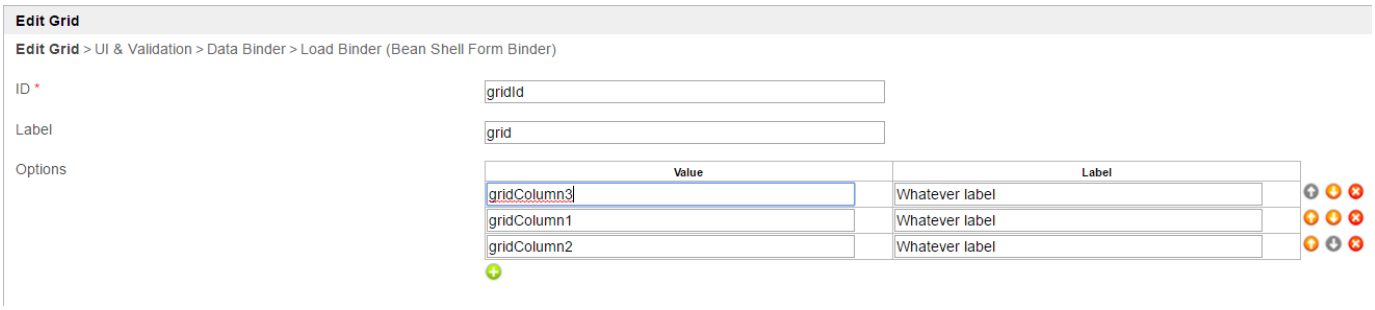
```
import org.joget.apps.form.model.*;
import org.joget.apps.form.service.*;
import java.sql.*;
import org.apache.commons.collections.SequencedHashMap;
import java.util.*;

public FormRowSet test() {
 FormRowSet f = new FormRowSet();
    f.setMultiRow(true);
    Class.forName("com.mysql.jdbc.Driver").newInstance();
 con = DriverManager.getConnection("jdbc:mysql://localhost:3307/jwdb?characterEncoding=UTF-8", "database username", "database password");

 if(!con.isClosed()){
  String recordId = "#requestParam.id#"; // Get the url parameter
  String sql = "SELECT * FROM test_table WHERE id=?"; // Here you can query from one or multiple tables using JOIN etc
  PreparedStatement stmt = con.prepareStatement(sql);
  stmt.setString(1, recordId);
  ResultSet rs = stmt.executeQuery();
  while (rs.next()) {
  FormRow r1 = new FormRow();
   r1.put("gridColumn1", rs.getString(1));
   r1.put("gridColumn1", rs.getString(2));
   r1.put("gridColumn1", rs.getString(3));
   f.add(r1);
    }
    } else {

        System.out.println("Connection Problem");
    }
    con.close();
 return f;
}
return test();
```

Store Binder -> Bean Shell Form Binder

```
import org.joget.apps.form.model.*;
import org.joget.apps.form.lib.*;
import org.joget.apps.form.service.*;
import java.sql.*;
import org.apache.commons.collections.SequencedHashMap;
import java.util.*;
import org.joget.commons.util.UuidGenerator;

public FormRowSet getGridRows() {
 return rows ; // this will return the grid rows
}

public saveGridRows(FormRowSet rows) {
 Class.forName("com.mysql.jdbc.Driver").newInstance();
 con = DriverManager.getConnection("jdbc:mysql://localhost:3307/jwdb?characterEncoding=UTF-8", "database username", "database password");
 if(!con.isClosed()){

  String recordId = "#requestParam.id#";

  // If you need to query data from different table(s) and process it before saving it to database,
  // you can do it here

  UuidGenerator uuid = UuidGenerator.getInstance();

  Iterator i= rows.iterator(); // Iterating grid rows
  while (i.hasNext()) {
   FormRow row = (FormRow) i.next();
   String gridColumn1 = row.get("gridColumn1"); // reading grid column value
   String gridColumn2 = row.get("gridColumn2");
   String gridColumn3 = row.get("gridColumn3");
   String pId = uuid.getUuid(); // generating Primary Key
   String insertSql = "INSERT INTO table(id,col1,col2,col3) VALUES(?,?,?,?)";
   PreparedStatement stmtInsert = con.prepareStatement(insertSql);
   stmtInsert.setString(1, pId);
   stmtInsert.setString(2, gridColumn1);
   stmtInsert.setString(3, gridColumn2);
   stmtInsert.setString(4, gridColumn3);
   stmtInsert.executeUpdate();
  }
 } else {
  System.out.println("Connection Problem");
 }
 con.close();
}

FormRowSet rows = getGridRows(); // getting the grid rows
saveGridRows(rows); // processing & storing the grid rows
```

Grid Design

Correct Grid design should look like this:



part of load binder beanshell script :

```
FormRowSet f = new FormRowSet();
f.setMultiRow(true);
FormRow r1 = new FormRow();
r1.put("gridColumn1", your_value);
r1.put("gridColumn2", your_value);
r1.put("gridColumn3", your_value);
f.add(r1);
```