

Class DbManager

java.lang.Object  
DbManager

public class DbManager  
extends java.lang.Object

Constructor Summary

Constructors

Constructor and Description

[DbManager\(\)](#)  
init the dbmanager class

Method Summary

All Methods    Instance Methods    Concrete Methods

Modifier and Type

void

void

java.lang.String[]

java.lang.String[]

void

void

java.util.ArrayList<java.lang.String[]>

Method and Description

[BeforeFirstResult\(\)](#)  
resets current row for res (sql query)  
**Important:** Use if while loop is being implemented

[Close\(\)](#)

[ColumnNames\(\)](#)  
generates the current returned SQL column names

[Columnsreturn\(\)](#)  
This function returns the heading of the columns returned from the last passed SQL query

[createConnection\(\)](#)  
creates a connection to the external database server uses the DBConfig.cfg file to get:  
host address = jdbc:{server type}:{server address}/{databasename}?  
usePipelineAuth=false  
username = {valid database manager user}  
password = {corresponding password for username}  
driver = org.mariadb.jdbc.Driver {for mariadb db only check your own}

[FirstResult\(\)](#)  
resets to first row for res (sql query)  
**Important:** Use only if a while loop isn't being implemented

[fullArray\(\)](#)

creates an arraylist of all all rows and columns without the column names as keys but instead uses an array

`java.util.ArrayList<java.util.HashMap<java.lang.String, java.lang.String>>` **fullmap()**

creates an arraylist of all rows and columns for the current SQL query

`java.lang.String`

**getColumn(java.lang.String name)**  
getColumn returns the value from the selected column for the current selected row

`int`

**getColumnInt(java.lang.String name)**  
getColumn returns the value from the selected column for the current selected row

`java.lang.Boolean`

**isempty()**  
checks if the query fetched valid data from the database

`java.util.HashMap<java.lang.String, java.lang.String>`

**mapresult()**  
creates a hashmap variable for currently selected row.

`java.util.HashMap<java.lang.String, java.lang.String>`

**Pop()**  
returns the last selected row while also moving onto the next row

`void`

**printresult()**  
printns out all rows from the last passed valid SQL query

`void`

**query(java.lang.String SQL)**  
Query is used to pass a sql statement to the connected database, which than saves the resulting fetched data to a local ResultSet called res

`void`

**query(java.lang.String SQL, java.lang.Object[] variables)**  
Query is used to pass a sql statement with the ability to add variables into the SQL statement through passing a list of variables, along with placing '?' within the SQL string corresponding to where you want the variables inserted.

`java.sql.ResultSet`

**result()**  
returns res.

`java.lang.String[]`

**resultArray()**

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Constructor Detail

#### DbManager

```
public DbManager()
    throws java.sql.SQLException,
           java.io.IOException,
           java.lang.ClassNotFoundException
```

init the dbmanager class

**Throws:**

java.sql.SQLException - ?

java.io.IOException - ?

java.lang.ClassNotFoundException - ?

## Method Detail

### createConnection

```
public void createConnection()
    throws java.io.IOException,
           java.lang.ClassNotFoundException,
           java.sql.SQLException
```

creates a connection to the external database server uses the DBConfig.cfg file to get:

host address = jdbc:{server type}://{server address}/{databasename}?usePipelineAuth=false

username = {valid database manager user}

password = {corresponding password for username}

driver = org.mariadb.jdbc.Driver {for mariadb db only check your own}

**Throws:**

java.io.IOException - ?

java.lang.ClassNotFoundException - ?

java.sql.SQLException - ?

### query

```
public void query(java.lang.String SQL)
```

Query is used to pass a sql statement to the connected database, which than saves the resulting fetched data to a local ResultSet called res

**Parameters:**

SQL: - valid sql string statement

### query

```
public void query(java.lang.String SQL,
    java.lang.Object[] variables)
```

Query is used to pass a sql statement with the ability to add variables into the SQL statement through passing a list of variables, along with placing '?' within the SQL string corresponding to where you want the variables inserted. This function than constructs the completed SQL statement and pass it to the database, which than saves the resulting fetched data to a local ResultSet called res

**Parameters:**

SQL: - valid sql string statement place '?' where you want a variable inserted

variables: - array of variables you want to insert into your SQL statement

### Columnsreturn

```
public java.lang.String[] Columnsreturn()
```

This function returns the heading of the columns returned from the last passed SQL query

**Returns:**

Columns: A String array of the column heading from the current sql query statement

**isempty**

```
public java.lang.Boolean isempty()  
    throws java.sql.SQLException
```

checks if the query fetched valid data from the database

**Returns:**

Boolean: **True** - if result is empty / **false** - if result has data

**Throws:**

java.sql.SQLException - ?

**printresult**

```
public void printresult()  
    throws java.sql.SQLException
```

prints out all rows from the last passed valid SQL query

**Throws:**

java.sql.SQLException - ?

**result**

```
public java.sql.ResultSet result()
```

returns res. Data fetched from SQL query variable

**Returns:**

ResultSet res ?

**getColumn**

```
public java.lang.String getColumn(java.lang.String name)  
    throws java.sql.SQLException
```

getColumn returns the value from the selected column for the current selected row

**Parameters:**

name: - String of a column name of the current returned data

**Returns:**

String of a selected column from the current selected row

**Throws:**

java.sql.SQLException - ?

**getColumnInt**

```
public int getColumnInt(java.lang.String name)  
    throws java.sql.SQLException
```

getColumn returns the value from the selected column for the current selected row

**Parameters:**

name: - String of a column name of the current returned data

**Returns:**

int of a selected column from the current selected row

**Throws:**

java.sql.SQLException - ?

**resultArray**

```
public java.lang.String[] resultArray()  
    throws java.sql.SQLException
```

**Throws:**

java.sql.SQLException

**ColumnNames**

```
public java.lang.String[] ColumnNames()  
    throws java.sql.SQLException
```

generates the current returned SQL column names

**Returns:**

String[] list of all Column names currently selected

**Throws:**

java.sql.SQLException - ?

**mapresult**

```
public java.util.HashMap<java.lang.String,java.lang.String> mapresult()  
    throws java.sql.SQLException
```

creates a hashmap variable for currently selected row.

**Returns:**

HashMap of String, String where the key is the column name and the data is the selected row's column data

**Throws:**

java.sql.SQLException - ?

**fullmap**

```
public java.util.ArrayList<java.util.HashMap<java.lang.String,java.lang.String>> fullmap()  
    throws java.sql.SQLException
```

creates an arraylist of all rows and columns for the current SQL query

**Returns:**

ArrayList of HashMap of String,String where the array list holds every row within a HashMap pf String,String where the key is the column name and the data is the corresponding cell

**Throws:**

java.sql.SQLException - ?

**Pop**

```
public java.util.HashMap<java.lang.String,java.lang.String> Pop()  
    throws java.sql.SQLException
```

returns the last selected row while also moving onto the next row

**Returns:**

HashMap of String,String, where the key is the column name and the data is the selected row's column data

**Throws:**

java.sql.SQLException - ?

**fullArray**

```
public java.util.ArrayList<java.lang.String[]> fullArray()  
                                throws java.sql.SQLException
```

creates an arraylist of all all rows and columns without the column names as keys but instead uses an array

**Returns:**

ArrayList of String[]

**Throws:**

java.sql.SQLException - ?

#### BeforeFirstResult

```
public void BeforeFirstResult()  
            throws java.sql.SQLException
```

resets current row for res (sql query) **Important:** Use if while loop is being implemented

**Throws:**

java.sql.SQLException - ?

#### FirstResult

```
public void FirstResult()  
            throws java.sql.SQLException
```

resets to first row for res (sql query) **Important:** Use only if a while loop isn't being implemented

**Throws:**

java.sql.SQLException - ?

#### Close

```
public void Close()
```

[PACKAGE](#) [CLASS](#) [TREE](#) [DEPRECATED](#) [INDEX](#) [HELP](#)

[PREV CLASS](#) [NEXT CLASS](#) [FRAMES](#) [NO FRAMES](#) [ALL CLASSES](#)

[SUMMARY: NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#) [DETAIL: FIELD](#) | [CONSTR](#) | [METHOD](#)