Package Summary		Page
edu.ou.weinmann.repsi.controller.script	Provides the command line interface to the REPSI tool.	1
edu.ou.weinmann.repsi.model.calibration	Provides the calibration functionality.	2
edu.ou.weinmann.repsi.model.database	Provides the functionality to modify schema or instance of a relational database system.	5
edu.ou.weinmann.repsi.model.mapper	Provides the functionality to map the data from an object to the database.	9
edu.ou.weinmann.repsi.model.trial	Provides the trial run functionality.	22
edu.ou.weinmann.repsi.model.trial.metadata	Provides classes to manage the database metadata.	24
edu.ou.weinmann.repsi.model.trial.util	Provides the utility classes for the trial run component of the REPSI tool.	30
edu.ou.weinmann.repsi.model.util	Provides the utility classes for the model component of the REPSI tool.	35

Package edu.ou.weinmann.repsi.controller.script

Provides the command line interface to the REPSI tool.

See:

Description

Class Summary		Page
<u>Main</u>	Command line interface to the REPSI tool.	1

Package edu.ou.weinmann.repsi.controller.script Description

Provides the command line interface to the REPSI tool.

Class Main

edu.ou.weinmann.repsi.controller.script

java.lang.Object

Ledu.ou.weinmann.repsi.controller.script.Main

final public class **Main** extends Object

Command line interface to the REPSI tool. The interface is based on the Jakarta Commons CLI library which simplifies the handling of command line parameters. The main parameter is called mode and this parameter determines the functionality to be executed:

- calibration perform a calibration run.
- master modify the schema or instance of the master database.
- result_cn export the results of a calibration run into an Excel file.
- result_r export the results of a calibration run into a R compatible files.
- result_tl export the results of one or all trial runs into an Excel file.
- test modify the schema or instance of a test database.
- trial perform a trial run.

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Further details can be found in the document 'REPSI Tool User Manual'.

Author:

Walter Weinmann

Method Summary		Page
	<pre>main(String[] args)</pre>	0
void	Command line interface to the REPSI tool.	2

Method Detail

main

public static void main(String[] args)

Command line interface to the REPSI tool. The interface is based on the Jakarta Commons CLI library which simplifies the handling of command line parameters. The main parameter is called <code>mode</code> and this parameter determines the functionality to be executed:

- calibration perform a calibration run.
- master modify the schema or instance of the master database.
- result_cn export the results of a calibration run into an Excel file.
- result_r export the results of a calibration run into a R compatible files.
- result_tl export the results of one or all trial runs into an Excel file.
- test modify the schema or instance of a test database.
- trial perform a trial run.

Further details can be found in the document 'REPSI Tool User Manual'.

Parameters:

args - here not supported

Package edu.ou.weinmann.repsi.model.calibration

Provides the calibration functionality.

See:

Description

Class Summary		Page
<u>Calibration</u>	Manages the calibration functionality of the REPSI tool: • executes a calibration run with the method System.nanoTime, • executes a calibration run with a SQL test query pair, • extracts the results of all calibration runs from the database into an Excel file.	3

Package edu.ou.weinmann.repsi.model.calibration Description

Provides the calibration functionality.

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Class Calibration

edu.ou.weinmann.repsi.model.calibration

java.lang.Object

 $\c L_{\tt edu.ou.weinmann.repsi.model.calibration.Calibration}$

final public class **Calibration** extends Object

Manages the calibration functionality of the REPSI tool:

- executes a calibration run with the method System.nanoTime,
- · executes a calibration run with a SQL test query pair,
- extracts the results of all calibration runs from the database into an Excel file.

Author:

Walter Weinmann

Constructor Summary	
Calibration () Constructs a Calibration object.	3
<pre>Calibration(String parProprtiesFilename, boolean parPropertiesXml) Constructs a Calibration object.</pre>	4

Metho	d Summary	Page
boolean	<pre>calibrateQuery(int parTestQueryPairId, int parCycles, int parDatabaseInstanceId, String parDescription, boolean parAlternating, boolean parConsecutive, int parFetchSize, boolean parIgnoreFirst, long parPrecision, boolean parVerbose) Calibrates the execution of a pair of SQL statements.</pre>	4
boolean	<pre>calibrateSimpleMethod(String parObject, int parCycles, int parDatabaseInstanceId, String parDescription, boolean parIgnoreFirst, long parPrecision, boolean parVerbose) Calibrates the execution of a simple Java method.</pre>	5
boolean	<u>calibrationDataToExcel</u> (String parFileName) Exports all the data of a callibration run from the master database into an Excel file.	4
boolean	<pre>calibrationDataToR(String parDirectoryNameIn) Exports all the data of a callibration run from the master database into an R style command files.</pre>	4
String	getObject() Returns the type of the Calibration Object.	5
void	<pre>setObject (String parObject) Sets the type of the Calibration object.</pre>	5

Constructor Detail

Calibration

public Calibration()

Constructs a Calibration object. The name of the used properties file is taken from mthe class edu.ou.weinmann.repsi.model.util.Global and does not constitute an XML document.

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Calibration

Constructs a Calibration object.

Method Detail

calibrationDataToExcel

```
public boolean calibrationDataToExcel(String parFileName)
```

Exports all the data of a callibration run from the master database into an Excel file.

Parameters:

parFileName - The complete file name of the Excel file including the directory.

Returns:

true if the calibration data were exported without any error, and false otherwise.

calibrationDataToR

```
public boolean calibrationDataToR(String parDirectoryNameIn)
```

Exports all the data of a callibration run from the master database into an R style command files.

Parameters:

parDirectoryNameIn - The directory to store the R command files.

Returns:

true if the command files were created without any error, and false otherwise.

calibrateQuery

Calibrates the execution of a pair of SQL statements.

Parameters:

```
parTestQueryPairId - The identification of the test query pair to be calibrated.

parCycles - The number of cycles to be executed.

parDatabaseInstanceId - The identification of the used test database instance.

parDescription - The description of the calibration run.

parAlternating - Whether in every cycle should be performed alternatively the execution of the first query and then of the second query.

parConsecutive - Whether first all cycles should be done with the first query and afterwards the same number of cycles with the second query.

parFetchSize - The fetch size.

parIgnoreFirst - Whether the first measured response time (reading) should be ignored.
```

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parPrecision - The exponent (base 10) of the required precision for the response time. Calibrates the execution of a simple Java method.

parVerbose - Whether to print a statistical overview.

Returns:

true if the processing ended without any error, and false otherwise.

calibrateSimpleMethod

Calibrates the execution of a simple Java method.

Parameters:

```
parObject - The specification of the Java method to be calibrated.

parCycles - The number of cycles to be executed.

parDatabaseInstanceId - The identification of the used test database instance.

parDescription - The description of the calibration run.

parIgnoreFirst - Whether the first measured response time (reading) should be ignored.

parPrecision - The exponent (base 10) of the required precision for the response time.

parVerbose - Whether to print a statistical overview.
```

Returns

true if the processing ended without any error, and false otherwise.

getObject

```
public String getObject()
```

Returns the type of the Calibration object.

Returns:

the type of the Calibration object.

setObject

```
public void setObject(String parObject)
```

Sets the type of the Calibration object.

Parameters:

parObject - The type of the Calibration object.

Package edu.ou.weinmann.repsi.model.database

Provides the functionality to modify schema or instance of a relational database system.

See:

Description

Class Summary		Page
<u>Database</u>	Manages the functionality to modify the schema or instance of a relational database.	6

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Package edu.ou.weinmann.repsi.model.database Description

Provides the functionality to modify schema or instance of a relational database system.

Class Database

edu.ou.weinmann.repsi.model.database

java.lang.Object

Lorg.xml.sax.helpers.DefaultHandler

edu.ou.weinmann.repsi.model.database.Database

All Implemented Interfaces:

org.xml.sax.ContentHandler, org.xml.sax.DTDHandler, org.xml.sax.EntityResolver, org.xml.sax.ErrorHandler

public class Database

extends org.xml.sax.helpers.DefaultHandler

Manages the functionality to modify the schema or instance of a relational database.

Author:

Walter Weinmann

Constructor Summary	
Database() Constructs a Database object.	7
Database (String parProprtiesFilename, boolean parPropertiesXml) Constructs a Database Object.	7

Metho	Method Summary	
final void	<pre>characters (char[] parCharacters, int parStart, int parLength) Receive notification of character data inside an element.</pre>	7
final void	<pre>endElement (String parUri, String parLocalName, String parQualifiedName) Receive notification of the end of an element.</pre>	8
final boolean	modifyMasterDatabase (String parFileName, String parFileType) Modifies the master database schema or instance based on an Excel file, a flat file or an XML document containing SQL statements.	8
final boolean	<pre>modifyTestDatabase (int parDatabaseInstanceId, String parFileName, String parFileType) Modifies a test database schema or instance based on an Excel file, a flat file or an XML document containing SQL statements.</pre>	8
final void	<pre>setSqlSyntaxSource (String parSqlSyntaxCode) Sets the type of the SQL syntax version.</pre>	9
final void	<pre>startElement(String parUri, String parLocalName, String parQualifiedName, org.xml.sax.Attributes parAttributes) Receive notification of the start of an element.</pre>	9

Methods inherited from class org.xml.sax.helpers.DefaultHandler

characters, endDocument, endElement, endPrefixMapping, error, fatalError, ignorableWhitespace, notationDecl, processingInstruction, resolveEntity, setDocumentLocator,

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skippedEntity, startDocument, startElement, startPrefixMapping, unparsedEntityDecl, warning

Methods inherited from interface org.xml.sax.EntityResolver

resolveEntity

Methods inherited from interface org.xml.sax.DTDHandler

notationDecl, unparsedEntityDecl

Methods inherited from interface org.xml.sax.ContentHandler

characters, endDocument, endElement, endPrefixMapping, ignorableWhitespace, processingInstruction, setDocumentLocator, skippedEntity, startDocument, startElement, startPrefixMapping

Methods inherited from interface org.xml.sax.ErrorHandler

error, fatalError, warning

Constructor Detail

Database

public Database()

Constructs a Database object. The name of the used properties file is taken from mthe class edu.ou.weinmann.repsi.model.util.Global and does not constitute an XML document.

Database

Constructs a Database object.

Method Detail

characters

Receive notification of character data inside an element.

Specified by:

characters in interface org.xml.sax.ContentHandler

Overrides:

characters in class org.xml.sax.helpers.DefaultHandler

Parameters:

```
parCharacters - The characters from the element.
parStart - The start position in the character array.
parLength - The number of characters to use from the character array.
```

Throws:

org.xml.sax.SAXException - Any SAX exception, possibly wrapping another exception.

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See Also:

org.xml.sax.helpers.DefaultHandler.characters(char[], int, int)

endElement

Receive notification of the end of an element.

Specified by:

endElement in interface org.xml.sax.ContentHandler

Overrides:

endElement in class org.xml.sax.helpers.DefaultHandler

Parameters:

parUri - The Namespace URI, or the empty string if the element has no Namespace URI or if Namespace processing is not being performed.

parLocalName - The local name (without prefix), or the empty string if Namespace processing is not being performed.

parQualifiedName - The qualified name (with prefix), or the empty string if qualified names are not available.

Throws:

org.xml.sax.SAXException - any SAX exception, possibly wrapping another exception

See Also:

org.xml.sax.helpers.DefaultHandler.endElement(java.lang.String, java.lang.String)

modifyMasterDatabase

Modifies the master database schema or instance based on an Excel file, a flat file or an XML document containing SQL statements. Reads the SQL statements from an Excel file, a flat file or an XML document and processes the contained data by considering the SQL syntax property related to the SQL statements in the input source and the SQL syntax property related to the master database which is defined in the file configuration.properties.

Parameters:

```
parFileName - The complete file name including the directory.
```

parFileType - The file type: xls if the input source consists of an Excel file, xml if the input source consists of an XML document and anything else if the imput source consists of a simple flat file.

Returns:

true if the processing of the file was completed without any error, and false otherwise.

modifyTestDatabase

Modifies a test database schema or instance based on an Excel file, a flat file or an XML document containing SQL statements. Reads the SQL statements from an Excel file, a flat file or an XML document and processes the contained data by considering the SQL syntax property related to the SQL statements in the input source and the SQL syntax property related to the master database which is defined in the file configuration.properties.

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Parameters:

 ${\tt parDatabaseInstanceId} \textbf{ - The identification of the test database instance.}$

parFileName - The complete file name including the directory.

parFileType - The file type: xls if the input source consists of an Excel file, xml if the input source consists of an XML document and anything else if the imput source consists of a simple flat file.

Returns:

true if the processing of the file was completed without any error, and false otherwise.

setSqlSyntaxSource

public final void setSqlSyntaxSource(String parSqlSyntaxCode)

Sets the type of the SQL syntax version.

Parameters:

parSqlSyntaxCode - The type of the SQL syntax version.

startElement

Receive notification of the start of an element.

Specified by:

startElement in interface org.xml.sax.ContentHandler

Overrides:

startElement in class org.xml.sax.helpers.DefaultHandler

Parameters:

parUri - The Namespace URI, or the empty string if the element has no Namespace URI or if Namespace processing is not being performed.

parLocalName - The local name (without prefix), or the empty string if Namespace processing is not being performed.

parQualifiedName - The qualified name (with prefix), or the empty string if qualified names are not available.

parAttributes - The attributes attached to the element. If there are no attributes, it shall be an empty Attributes object.

Throws:

org.xml.sax.SAXException - any SAX exception, possibly wrapping another exception

See Also:

```
org.xml.sax.helpers.DefaultHandler.startElement(java.lang.String,
java.lang.String, org.xml.sax.Attributes)
```

Package edu.ou.weinmann.repsi.model.mapper

Provides the functionality to map the data from an object to the database.

See:

Description

Class Summary		Page
<u>CalibrationMapper</u>	Maps the data from the calibration run to the database.	10
<u>DatabaseInstanceMapper</u>	Maps the data from the database instance to the database.	12

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TrialRunActionMapper	Maps the data from the trial run actions to the database.	13
<u>TrialRunMapper</u>	Maps the data from the trial run to the database.	17
TrialRunProtocolMapper	Maps the data from the trial run protocol to the database.	19

Package edu.ou.weinmann.repsi.model.mapper Description

Provides the functionality to map the data from an object to the database.

Class CalibrationMapper

edu.ou.weinmann.repsi.model.mapper

java.lang.Object

oxdot edu.ou.weinmann.repsi.model.mapper.CalibrationMapper

public class **CalibrationMapper** extends Object

Maps the data from the calibration run to the database.

Author:

Walter Weinmann

Constructor Summary	Page
<pre>CalibrationMapper (String parSQLSyntaxCodeTarget, String parStartTime)</pre>	
Constructs a CalibrationMapper object.	

Metho	ethod Summary	
final boolean	Close the database connection.	11
final boolean	<pre>initialiseCalibration (Map parColumnsDatabaseInstance) Creates the row in the database table TMD_CALIBRATION.</pre>	11
final boolean	<pre>initialiseCalibrationStatistic (Map parColumnsCalibrationStatistic) Creates the row in the database table TMD_CALIBRATION_STATISTIC.</pre>	11
final boolean	<pre>setComparison(String parEquals, String parMessage) Updates in the database the columns COMPARISON_EQUALS and COMPARISON_MESSAGE.</pre>	11
final boolean	<pre>setDescription (String parDescription) Updates in the database the columns DESCRIPTION.</pre>	12
final boolean	<pre>setPatternSqlIdiomName (String parPatternSqlIdiomName) Updates in the database the columns PATTERN_SQL_IDIOM_NAME.</pre>	12
final boolean	<pre>setSqlSyntaxCodeTqp(String parSqlSyntaxCodeTtqp) Updates in the database the columns SQL_SYNTAX_CODE_TTQP.</pre>	12
final boolean	SetStatus() Updates in the database the columns END_TIME and STATUS_CODE.	12

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Constructor Detail

CalibrationMapper

Constructs a CalibrationMapper object.

Method Detail

closeConnection

public final boolean closeConnection()

Close the database connection.

Returns:

true if the operation succeeded and false otherwise.

initialiseCalibration

public final boolean initialiseCalibration(Map parColumnsDatabaseInstance)

Creates the row in the database table TMD_CALIBRATION.

Parameters:

parColumnsDatabaseInstance - The Map object containing the database columns.

Returns

true if the operation succeeded and false otherwise.

initialiseCalibrationStatistic

public final boolean initialiseCalibrationStatistic(Map parColumnsCalibrationStatistic)

Creates the row in the database table TMD_CALIBRATION_STATISTIC.

Parameters:

parColumnsCalibrationStatistic - The Map object containing the database columns.

Returns:

true if the operation succeeded and false otherwise.

setComparison

```
public final boolean {f setComparison} (String parEquals, String parMessage)
```

Updates in the database the columns COMPARISON_EQUALS and COMPARISON_MESSAGE.

Parameters

```
parEquals - Y if both ResultSets are equal, or N otherwise.
parMessage - The new message reasoning the inequality of both ResultSet.
```

Returns:

true if the operation succeeded and false otherwise.

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setDescription

public final boolean setDescription(String parDescription)

Updates in the database the columns DESCRIPTION.

Parameters:

parDescription - The new description.

Returns:

true if the operation succeeded and false otherwise.

setPatternSqlldiomName

public final boolean setPatternSqlIdiomName(String parPatternSqlIdiomName)

Updates in the database the columns PATTERN_SQL_IDIOM_NAME.

Parameters:

 $\verb|parPatternSqlIdiomName| - The new pattern SQL idiom name.$

Returns:

true if the operation succeeded and false otherwise.

setSqlSyntaxCodeTqp

public final boolean setSqlSyntaxCodeTqp(String parSqlSyntaxCodeTtqp)

Updates in the database the columns $SQL_SYNTAX_CODE_TTQP$.

Parameters:

parSqlSyntaxCodeTtqp - The new SQL syntax code.

Returns:

true if the operation succeeded and false otherwise.

setStatus

public final boolean setStatus()

Updates in the database the columns <code>END_TIME</code> and <code>STATUS_CODE</code>.

Returns:

true if the operation succeeded and false otherwise.

Class DatabaseInstanceMapper

edu.ou.weinmann.repsi.model.mapper

java.lang.Object

Ledu.ou.weinmann.repsi.model.mapper.DatabaseInstanceMapper

public class **DatabaseInstanceMapper** extends Object

Maps the data from the database instance to the database.

Author:

Walter Weinmann

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Constructor Summary	Page
<pre>DatabaseInstanceMapper (String parSQLSyntaxCodeTarget)</pre>	
Constructs a DatabaseInstanceMapper object.	13

Method Summary		Page
final boolean	Close the database connection.	13
final Map	getDatabaseInstance (int parDatabaseInstanceId) Returns a Map containing the relevant columns of the requested database instance.	13

Constructor Detail

DatabaseInstanceMapper

public DatabaseInstanceMapper(String parSQLSyntaxCodeTarget)

Constructs a DatabaseInstanceMapper object.

Method Detail

closeConnection

public final boolean closeConnection()

Close the database connection.

Returns:

true if the operation succeeded and false otherwise.

getDatabaseInstance

public final Map getDatabaseInstance(int parDatabaseInstanceId)

Returns a Map containing the relevant columns of the requested database instance.

Parameters:

parDatabaseInstanceId - The identification of the database instance.

Returns:

a Map containing the relevant columns of the database instance.

Class TrialRunActionMapper

edu.ou.weinmann.repsi.model.mapper

java.lang.Object

Ledu.ou.weinmann.repsi.model.mapper.TrialRunActionMapper

public class **TrialRunActionMapper** extends Object

Maps the data from the trial run actions to the database.

19.02.07 Page 13 of 66

Author:

Walter Weinmann

Constructor Summary	Page
<pre>TrialRunActionMapper (TrialRunProtocolMapper parTrialRunProtocol, String parSQLSyntaxCodeTarget, int parDatabaseInstanceId, int parTestSuiteId, String parStartTime)</pre>	14
Constructs a TrialRunActionMapper object.	

Metho	nod Summary Pa	
final boolean	<pre>closeConnection()</pre>	15
boolean	Close the database connection.	13
final boolean	<pre>initialise (Map parColumnsTestSuiteAction)</pre>	15
Doolean	Creates the row in the database table TMD_TRIAL_RUN_ACTION.	13
final boolean	<pre>resetAppliedPatternSelectStmnt()</pre>	15
Doolean	Rest the database column APPLIED_PATTERN_SELECT_STMNT.	13
final boolean	<pre>resetUnappliedPatternSelectStmnt()</pre>	15
Doolean	Rest the database column unapplied_pattern_select_stmnt.	13
final boolean	<pre>setAppliedEndAction(Date parStartTime, Date parEndTime, long parDuration)</pre>	
Doolean	Updates in the database the columns APPLIED_DURATION_MICRO_SECOND,	15
	APPLIED_END_TIME, and APPLIED_START_TIME.	
final boolean	<pre>setAppliedEndActionError</pre> (String parErrorMessage)	16
	Updates in the database the columns APPLIED_ERROR_MESSAGE and APPLIED_STATUS.	
final boolean	<pre>setAppliedStartAction(String parStatement, String parOrderBy)</pre>	
	Updates in the database the columns APPLIED_PATTERN_SELECT_STMNT and	16
	APPLIED_STATUS.	
final boolean	<pre>setComparison(String parEquals, String parMessage)</pre>	16
	Updates in the database the columns COMPARISON_EQUALS and COMPARISON_MESSAGE.	
final void	tong paraequence value in the paraequence value in the paraeque in the paraequ	16
	Sets the current action sequence number.	
final boolean	setTableName (String parTableName)	16
	Updates in the database the column TABLE_NAME.	
final boolean	setUnappliedEndAction (Date parStartTime, Date parEndTime, long parDuration)	
	Updates in the database the columns unapplied_duration_micro_second, unapplied_end_time, and unapplied_start_time.	17
final		
boolean	setUnappliedEndActionError (String parErrorMessage)	17
fin-1	Updates in the database the columns unapplied_error_message and unapplied_status.	
final boolean	setUnappliedStartAction (String parStatement, String parOrderBy)	17
	Updates in the database the columns UNAPPLIED_PATTERN_SELECT_STMNT and UNAPPLIED_STATUS.	17
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Constructor Detail

TrialRunActionMapper

19.02.07 Page 14 of 66

Constructs a TrialRunActionMapper object.

Method Detail

closeConnection

public final boolean closeConnection()

Close the database connection.

Returns:

true if the operation succeeded and false otherwise.

initialise

public final boolean initialise(Map parColumnsTestSuiteAction)

Creates the row in the database table TMD_TRIAL_RUN_ACTION.

Parameters:

parColumnsTestSuiteAction - The Map object containing the database columns.

Returns:

true if the operation succeeded and false otherwise.

resetAppliedPatternSelectStmnt

```
public final boolean resetAppliedPatternSelectStmnt()
```

Rest the database column APPLIED_PATTERN_SELECT_STMNT.

Returns:

true if the operation succeeded and false otherwise.

resetUnappliedPatternSelectStmnt

```
public final boolean resetUnappliedPatternSelectStmnt()
```

Rest the database column UNAPPLIED_PATTERN_SELECT_STMNT.

Returns:

true if the operation succeeded and false otherwise.

setAppliedEndAction

Updates in the database the columns <code>APPLIED_DURATION_MICRO_SECOND</code>, <code>APPLIED_END_TIME</code>, and <code>APPLIED_START_TIME</code>.

Parameters:

```
parStartTime - The new start date and time.
parEndTime - The new end date and time.
parDuration - The new duration of the query execution.
```

Returns:

true if the operation succeeded and false otherwise.

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setAppliedEndActionError

public final boolean setAppliedEndActionError(String parErrorMessage)

Updates in the database the columns <code>appLied_error_message</code> and <code>appLied_status</code>.

Parameters:

parErrorMessage - The new applied error message.

Returns:

true if the operation succeeded and false otherwise.

setAppliedStartAction

Updates in the database the columns APPLIED PATTERN SELECT STMNT and APPLIED STATUS.

Parameters:

 $\label{eq:parstatement} \mbox{parstatement - The new applied $\tt SQL$ statement.} \\ \mbox{parOrderBy - Rhe new} \mbox{ order By clause.}$

Returns:

true if the operation succeeded and false otherwise.

setComparison

Updates in the database the columns COMPARISON EQUALS and COMPARISON MESSAGE.

Parameters:

parEquals - Y if both ResultSets are equal, or N otherwise.
parMessage - The new message reasoning the inequality of both ResultSet.

Returns:

true if the operation succeeded and false otherwise.

setSequenceNumberAction

public final void setSequenceNumberAction(long parSequenceNumberAction)

Sets the current action sequence number.

Parameters:

parSequenceNumberAction - The current action sequence number.

setTableName

```
public final boolean setTableName(String parTableName)
```

Updates in the database the column TABLE_NAME.

Parameters:

parTableName - The new table name.

Returns:

true if the operation succeeded and false otherwise.

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setUnappliedEndAction

Updates in the database the columns unapplied_duration_micro_second, unapplied_end_time, and unapplied start time.

Parameters:

```
parStartTime - The new start date and time.
parEndTime - The new end date and time.
parDuration - The new duration of the query execution.
```

Returns:

true if the operation succeeded and false otherwise.

setUnappliedEndActionError

public final boolean setUnappliedEndActionError(String parErrorMessage)

Updates in the database the columns <code>unapplied_error_message</code> and <code>unapplied_status</code>.

Parameters:

parErrorMessage - The new unapplied error message.

Returns:

true if the operation succeeded and false otherwise.

setUnappliedStartAction

```
\label{eq:public_final_boolean} \textbf{setUnappliedStartAction} (String \ parStatement, \\ String \ parOrderBy)
```

Updates in the database the columns <code>unapplied_pattern_select_stmnt</code> and <code>unapplied_status</code>.

Parameters:

```
parStatement - The new unapplied SQL statement. parOrderBy - Rhe new ORDER BY clause.
```

Returns:

true if the operation succeeded and false otherwise.

Class TrialRunMapper

edu.ou.weinmann.repsi.model.mapper

```
java.lang.Object
```

```
Ledu.ou.weinmann.repsi.model.mapper.TrialRunMapper
```

public class **TrialRunMapper** extends Object

Maps the data from the trial run to the database.

Author:

Walter Weinmann

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Constructor Summary	Page
<pre>TrialRunMapper(TrialRunProtocolMapper parTrialRunProtocol, String parSQLSyntaxCodeTarget, int parDatabaseInstanceId, int parTestSuiteId, String parStartTime)</pre>	18
Constructs a TrialRunMapper object.	

Metho	Method Summary	
final boolean	<u>closeConnection()</u> Close the database connection.	18
final boolean	<pre>initialise (Map parColumnsDatabaseInstance, Map parColumnsTestSuite) Creates the row in the database table TMD_TRIAL_RUN.</pre>	18
final boolean	<pre>setDescription (String parDescription) Updates in the database the columns DESCRIPTION.</pre>	19
final boolean	<pre>setStatus (String parStatus) Updates in the database the columns END_TIME and STATUS_CODE.</pre>	19

Constructor Detail

TrialRunMapper

Constructs a TrialRunMapper object.

Method Detail

closeConnection

public final boolean closeConnection()

Close the database connection.

Returns:

true if the operation succeeded and false otherwise.

initialise

Creates the row in the database table TMD_TRIAL_RUN.

Parameters:

parColumnsDatabaseInstance - The Map object containing the columns of the database table TMD_DATABASE_INSTANCE.

parColumnsTestSuite - The Map object containing the columns of the database table TMD_TEST_SUITE.

Returns:

true if the operation succeeded and false otherwise.

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setDescription

public final boolean setDescription(String parDescription)

Updates in the database the columns DESCRIPTION.

Parameters:

parDescription - The new description.

Returns:

true if the operation succeeded and false otherwise.

setStatus

public final boolean setStatus(String parStatus)

Updates in the database the columns END_TIME and STATUS_CODE.

Parameters:

parStatus - The new status.

Returns:

true if the operation succeeded and false otherwise.

Class TrialRunProtocolMapper

edu.ou.weinmann.repsi.model.mapper

java.lang.Object

oxdot edu.ou.weinmann.repsi.model.mapper.TrialRunProtocolMapper

public class **TrialRunProtocolMapper** extends Object

Maps the data from the trial run protocol to the database.

Author:

Walter Weinmann

Constructor Summary	Page
<pre>TrialRunProtocolMapper (String parSQLSyntaxCodeTarget, int parDatabaseInstanceId, int parTestSuiteId, String parStartTime)</pre>	20
Constructs a TrialRunProtocolMapper object.	

Metho	od Summary F	
final boolean	Close the database connection.	20
final boolean	<pre>createErrorProtocol (String parMessage, boolean parAborted) Create an error protocol entry.</pre>	20
final boolean	<pre>createProtocol (String parMessage) Creates an protocol entry.</pre>	20
final boolean	<pre>createProtocol (String parMessagePart1, String parMessagePart2) Creates an protocol entry.</pre>	21
final boolean	<pre>createProtocol (String parMessagePart1, long parMessagePart2) Creates an protocol entry.</pre>	21

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final int	getNumberOfAborts () Returns the current number of aborts reported.	21
final int	getNumberOfErrors () Returns the current number of errors reported.	21
final boolean	Returns whether the processing was required to be terminated immedeately.	21
final void	<pre>setSequenceNumberAction(long parSequenceNumberAction) Sets the current action sequence number.</pre>	21

Constructor Detail

TrialRunProtocolMapper

Constructs a TrialRunProtocolMapper object.

Method Detail

closeConnection

public final boolean closeConnection()

Close the database connection.

Returns:

true if the operation succeeded and false otherwise.

createErrorProtocol

Create an error protocol entry.

Parameters:

parMessage - The error message to be contained in the protocol. parAborted - Whether the processing should be termintated immedeately.

Returns

true if the operation succeeded and false otherwise.

createProtocol

```
public final boolean createProtocol(String parMessage)
```

Creates an protocol entry.

Parameters:

 ${\tt parMessage} \ \hbox{-} \ \hbox{The error message to be contained in the protocol}.$

Returns:

true if the operation succeeded and false otherwise.

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createProtocol

Creates an protocol entry.

Parameters:

parMessagePart1 - The left part of the information to be contained in the protocol. parMessagePart2 - The right part of the information to be contained in the protocol.

Returns:

true if the operation succeeded and false otherwise.

createProtocol

Creates an protocol entry.

Parameters:

parMessagePart1 - The left part of the information to be contained in the protocol. parMessagePart2 - The right part of the information to be contained in the protocol.

Returns:

true if the operation succeeded and false otherwise.

getNumberOfAborts

```
public final int getNumberOfAborts()
```

Returns the current number of aborts reported.

Returns:

the current number of aborts reported.

getNumberOfErrors

```
public final int getNumberOfErrors()
```

Returns the current number of errors reported.

Returns:

the current number of errors reported.

isAborted

```
public final boolean isAborted()
```

Returns whether the processing was required to be terminated immedeately.

Returns:

true if the processing was required to be terminated immedeately.

setSequenceNumberAction

public final void setSequenceNumberAction(long parSequenceNumberAction)

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Sets the current action sequence number.

Parameters:

parSequenceNumberAction - The current action sequence number.

Package edu.ou.weinmann.repsi.model.trial

Provides the trial run functionality.

See:

Description

(Class Summa	ary	Page
1	<u>'rial</u>	 Manages the trial run functionality of the REPSI tool: executes a trail run extracts the results of trial runs from the database into an Excel file. 	22

Package edu.ou.weinmann.repsi.model.trial Description

Provides the trial run functionality.

Class Trial

edu.ou.weinmann.repsi.model.trial

java.lang.Object

Ledu.ou.weinmann.repsi.model.trial.Trial

public class **Trial** extends Object

Manages the trial run functionality of the REPSI tool:

- · executes a trail run
- extracts the results of trial runs from the database into an Excel file.

Author:

Walter Weinmann Manages the trial runs.

Walter Weinmann

Constructor Summary	
Trial() Constructs a Trial object.	23
<pre>Trial (String parProprtiesFilename, boolean parPropertiesXml) Constructs a Trial object.</pre>	23

Metho	d Summary	Page
final boolean	<pre>runTrial (int parDatabaseInstanceId, int parTestSuiteId, String parDescription, int parFetchSize, int parFrequency, long parPrecision)</pre>	23
	Runs a trial and records the measured results.	

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final boolean boolean parAllData)

Exports all the data of a trial run from the master database into an Excel file.

23

Constructor Detail

Trial

```
public Trial()
```

Constructs a Trial object. The name of the used properties file is taken from mthe class edu.ou.weinmann.repsi.model.util.Global and does not constitute an XML document.

Trial

Constructs a Trial object.

Method Detail

runTrial

Runs a trial and records the measured results.

Parameters:

```
parDatabaseInstanceId - The identification of the used test database instance.
parTestSuiteId - The identification of the used test test suite.
parDescription - The description of the calibration run.
parFetchSize - The fetch size.
parFrequency - The number of cycles to be executed.
parPrecision - The exponent (base 10) of the required precision for the response time. Calibrates the execution of a simple Java method.
```

Returns:

true if the processing ended without any error, and false otherwise.

trialDataToExcel

Exports all the data of a trial run from the master database into an Excel file.

Parameters:

```
{\tt parFileName} \ - \ The \ complete \ file \ name \ of \ the \ Excel \ file \ including \ the \ directory. {\tt parAllData} \ - \ Whether \ all \ data \ are \ required \ instead \ of \ the \ latest \ trial \ run \ only.
```

Returns:

true if the calibration data were exported without any error, and false otherwise.

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Package edu.ou.weinmann.repsi.model.trial.metadata

Provides classes to manage the database metadata.

See:

Description

Class Summary		Page
<u>Column</u>	Manages one column of a database table.	24
Columns	Manages the meta data a database table: primary key, imported foreign keys and database columns.	26
<u>ForeignKey</u>	Manages one foreign key of a database table.	29
<u>ForeignKeys</u>	Manages the foreign keys of a database table.	29
PrimaryKey	Manages the primary key of a database table.	30

Package edu.ou.weinmann.repsi.model.trial.metadata Description

Provides classes to manage the database metadata.

Class Column

edu.ou.weinmann.repsi.model.trial.metadata

java.lang.Object

Ledu.ou.weinmann.repsi.model.trial.metadata.Column

final public class **Column** extends Object

Manages one column of a database table.

Author:

Walter Weinmann

Method	Summary	Page
String	<pre>getColumnName ()</pre>	25
	Returns the column name.	25
int	<pre>getColumnSize()</pre>	25
	Returns the column size.	20
int	<pre>getDataType()</pre>	25
	Returns the SQL type of java.sql.Types.	25
int	<pre>getDecimalDigits()</pre>	25
	Returns the number of fractional digits.	25
BigDecimal	<pre>getDecimalFactor()</pre>	25
	Returns the decimal factor.	25
String	<pre>getIsNullable()</pre>	26
	Returns whether the column can include null.	26

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	int	getKeySeq() Returns the sequence number within primary key.	26	
boo	olean	isForeignKeyColumn () Returns whether the column is a foreign key column.	26	

Method Detail

getColumnName

public String getColumnName()

Returns the column name.

Returns:

the column name.

getColumnSize

```
public int getColumnSize()
```

Returns the column size.

Returns:

the column size.

getDataType

```
public int getDataType()
```

Returns the SQL type of java.sql.Types.

Returns:

the SQL type of java.sql.Types.

getDecimalDigits

```
public int getDecimalDigits()
```

Returns the number of fractional digits.

Returns:

the number of fractional digits.

getDecimalFactor

```
public BigDecimal getDecimalFactor()
```

Returns the decimal factor.

Returns:

the decimal factor.

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getIsNullable

```
public String getIsNullable()
```

Returns whether the column can include null.

Returns:

"YES", if the column can include <code>null</code>, "NO", if the column cannot include <code>null</code>, and an empty string, if the nullability for the column is unknown.

getKeySeq

```
public int getKeySeq()
```

Returns the sequence number within primary key.

Returns:

sequence number within primary key.

isForeignKeyColumn

```
public boolean isForeignKeyColumn()
```

Returns whether the column is a foreign key column.

Returns:

true if the column is a foreign key column.

Class Columns

edu.ou.weinmann.repsi.model.trial.metadata

```
java.lang.Object
```

Ledu.ou.weinmann.repsi.model.trial.metadata.Columns

final public class **Columns** extends Object

Manages the meta data a database table: primary key, imported foreign keys and database columns.

Author:

Walter Weinmann

Constructor Summary	Page
<u>Columns</u> (<u>TrialRunProtocolMapper</u> parTrialRunProtocol, <u>DatabaseAccessor</u> parDBAccess, String parCatalog, String parSchema, String parTableName)	27
Constructs a Columns object.	

Method Summary		Page
boolean	<pre>determineRandomForeignKeys()</pre>	27
	Determines a random set of foreign key values.	
boolean	<pre>determineRandomPrimaryKey(DataGenerator parDataGenerator)</pre>	27
	Determines a random primary key.	2/

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Column	<pre>getColumn(String parColumnName) Returns the required Column object.</pre>	28
String	getColumnName (int parOrdinalPosition) Returns the database column name related to a given ordinal position.	28
ForeignKeys	getForeignKeys () Returns the ForeignKeys object of this database table.	28
PrimaryKey	getPrimaryKey() Returns the PrimaryKey object of this database table.	28
Object	<pre>getRandomFkValue(String parFkColumnName) Returns a random foreign key.</pre>	28
Object	<pre>getRandomPkValue(String parPkColumnName) Returns a random primary key.</pre>	28
void	<pre>protocol(TrialRunProtocolMapper parTrialRunProtocol) Creates a protocol entry.</pre>	29
int	SizeColumns () Returns the number of columns in this database table.	29

Constructor Detail

Columns

Constructs a Columns object.

Method Detail

determine Random Foreign Keys

public boolean determineRandomForeignKeys()

Determines a random set of foreign key values.

Returns:

true if the processing finished without errors.

determineRandomPrimaryKey

public boolean determineRandomPrimaryKey(DataGenerator parDataGenerator)

Determines a random primary key.

Parameters:

parDataGenerator - The DataGenerator object.

Returns:

true if the processing finished without errors.

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getColumn

public Column getColumn(String parColumnName)

Returns the required Column object.

Parameters:

parColumnName - The name of the required dstabase column.

Returns:

the Column object or null if the required database column was not found.

getColumnName

public String getColumnName(int parOrdinalPosition)

Returns the database column name related to a given ordinal position.

Parameters:

parOrdinalPosition - The ordinal position of the column in the database table (starting with 1).

Returns:

the database column name or null if the required ordinal position is out of range.

getForeignKeys

public ForeignKeys getForeignKeys()

Returns the ForeignKeys object of this database table.

Returns:

a ForeignKeys object containing the foreign keys.

getPrimaryKey

```
public PrimaryKey getPrimaryKey()
```

Returns the PrimaryKey object of this database table.

Returns:

a PrimaryKey object containing the primary key.

getRandomFkValue

public Object getRandomFkValue(String parFkColumnName)

Returns a random foreign key.

Parameters:

 ${\tt parFkColumnName} \ \hbox{-} \ \textbf{The name of the foreign key column}.$

Returns

a valid value for the given foreign key column.

getRandomPkValue

 $\verb"public Object {\tt getRandomPkValue}" (String {\tt parPkColumnName})$

Returns a random primary key.

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Parameters:

parPkColumnName - The name of the primary key column.

Returns:

a valid value for the given primary key column.

protocol

public void protocol(TrialRunProtocolMapper parTrialRunProtocol)

Creates a protocol entry.

Parameters:

parTrialRunProtocol - The TrialRunProtocolMapper object.

sizeColumns

```
public int sizeColumns()
```

Returns the number of columns in this database table.

Returns:

the number of columns in this database table

Class ForeignKey

edu.ou.weinmann.repsi.model.trial.metadata

```
java.lang.Object
```

Ledu.ou.weinmann.repsi.model.trial.metadata.ForeignKey

final public class **ForeignKey** extends Object

Manages one foreign key of a database table.

Author:

Walter Weinmann

Class ForeignKeys

edu.ou.weinmann.repsi.model.trial.metadata

```
java.lang.Object
```

Ledu.ou.weinmann.repsi.model.trial.metadata.ForeignKeys

final public class **ForeignKeys** extends Object

Manages the foreign keys of a database table.

Author:

Walter Weinmann

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Class PrimaryKey

edu.ou.weinmann.repsi.model.trial.metadata

java.lang.Object

Ledu.ou.weinmann.repsi.model.trial.metadata.PrimaryKey

final public class **PrimaryKey** extends Object

Manages the primary key of a database table.

Author:

Walter Weinmann

Meth	Method Summary	
Objec	t getRandomPkValue(String parPkColumnName)	00
	Returns a random primary key column.	30

Method Detail

getRandomPkValue

public Object getRandomPkValue(String parPkColumnName)

Returns a random primary key column.

Parameters:

parPkColumnName - The name of the primary key column.

Returns:

a valid value for the given primary key column.

Package edu.ou.weinmann.repsi.model.trial.util

Provides the utility classes for the trial run component of the REPSI tool.

See:

Description

Class Summary		Page
<u>DataGenerator</u>	Generates the columns and rows of a given test database instance.	31
ResultSetComparator	Compares two ResultSet objects for equality.	33

Package edu.ou.weinmann.repsi.model.trial.util Description

Provides the utility classes for the trial run component of the REPSI tool.

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Class DataGenerator

edu.ou.weinmann.repsi.model.trial.util

java.lang.Object

Ledu.ou.weinmann.repsi.model.trial.util.DataGenerator

public class **DataGenerator** extends Object

Generates the columns and rows of a given test database instance.

Author:

Walter Weinmann

Constructor Summary	Page
<pre>DataGenerator(TrialRunProtocolMapper parTrialRunProtocol, DatabaseAccessor parDBAccess, String parTableName, Columns parColumns)</pre>	31
Constructs a DataGenerator object.	

Method	Summary	Page
final Date	generateColumnValueDateKey (Column parColumn) Generates a value for a given primary key column of type DATE.	32
static final Date	generateColumnValueDateKeyLow() Generates the lowest possible DATE value for a primary key.	32
final BigDecimal	generateColumnValueNumericKey (Column parColumn) Generates a value for a given primary key column of type BigDecimal.	32
static final BigDecimal	<u>generateColumnValueNumericKeyLow()</u> Generates the lowest possible BigDecimal value for a primary key.	32
final String	<pre>generateColumnValueVarcharKey (Column parColumn) Generates a value for a given primary key column of type String.</pre>	32
static final String	generateColumnValueVarcharKeyLow() Generates the lowest possible String value for a primary key.	33
static final String	<pre>generateColumnValueVarcharKeyLow(Column parColumn) Generates the lowest possible String value for a given primary key column.</pre>	33
final boolean	<pre>generateRow(long parExecutionFrequency) Generates set of rows in a database table.</pre>	33
final long	getNumberRowsGenerated() Returns the effective number of generated rows.	33

Constructor Detail

DataGenerator

```
public DataGenerator(<u>TrialRunProtocolMapper parTrialRunProtocol, DatabaseAccessor parDBAccess, String parTableName, Columns parColumns)</u>
```

Constructs a DataGenerator object.

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Method Detail

generateColumnValueDateKey

public final Date generateColumnValueDateKey(Column parColumn)

Generates a value for a given primary key column of type DATE.

Parameters:

parColumn - The name of the database column.

Returns:

a valid value of a DATE column, or null if any error occured.

generateColumnValueDateKeyLow

public static final Date generateColumnValueDateKeyLow()

Generates the lowest possible DATE value for a primary key.

Returns:

a DATE object.

generateColumnValueNumericKey

public final BigDecimal generateColumnValueNumericKey(Column parColumn)

Generates a value for a given primary key column of type BigDecimal.

Parameters:

parColumn - The name of the database column.

Returns:

a valid value of a BigDecimal column, or null if any error occured.

generateColumnValueNumericKeyLow

 $\verb"public static final BigDecimal "generateColumnValueNumericKeyLow" ()$

Generates the lowest possible BigDecimal value for a primary key.

Returns:

a BigDecimal object.

generateColumnValueVarcharKey

public final String generateColumnValueVarcharKey(Column parColumn)

Generates a value for a given primary key column of type String.

Parameters:

parColumn - The name of the database column.

Returns:

a valid value of a String column, or null if any error occured.

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generateColumnValueVarcharKeyLow

public static final String generateColumnValueVarcharKeyLow()

Generates the lowest possible String value for a primary key.

Returns:

a String object.

generateColumnValueVarcharKeyLow

public static final String generateColumnValueVarcharKeyLow(Column parColumn)

Generates the lowest possible String value for a given primary key column.

Parameters:

parColumn - The name of the database column.

Returns:

a String object.

generateRow

public final boolean generateRow(long parExecutionFrequency)

Generates set of rows in a database table.

Parameters:

parExecutionFrequency - The number of rows to be generated.

Returns:

true if the required number of rows was generated successfully, and false otherwise.

getNumberRowsGenerated

public final long getNumberRowsGenerated()

Returns the effective number of generated rows.

Returns:

the effective number of generated rows.

Class ResultSetComparator

edu.ou.weinmann.repsi.model.trial.util

java.lang.Object

Ledu.ou.weinmann.repsi.model.trial.util.ResultSetComparator

public class **ResultSetComparator** extends Object

Compares two ResultSet objects for equality.

Author:

Walter Weinmann

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Constructor Summary	Page
ResultSetComparator()	
Constructs a ResultSetComparator object.	34

Method Summary		Page
final boolean	<pre>compare (DatabaseAccessor[] parDBAccess) Compares two ResultSet objects.</pre>	34
final String	getLastErrorMsg() Returns the last error message.	34
final void	<pre>setDescription (String parDescription, int parPos) Sets the description at the required position.</pre>	34
final void	<pre>setOrderBy (String parOrderBy, int parPos) Sets the order by clause at the required position.</pre>	35
final void	<pre>setSelectStmnt(String parSelectStmnt, int parPos) Sets the SELECT statement at the required position.</pre>	35
final void	<pre>setSqlSyntaxCode (String parSqlSyntaxCode) Sets the SQL syntax code.</pre>	35

Constructor Detail

ResultSetComparator

public ResultSetComparator()

Constructs a ResultSetComparator object.

Method Detail

compare

public final boolean compare(DatabaseAccessor[] parDBAccess)

Compares two ResultSet objects.

Parameters:

pardbaccess - The DatabaseAccessor object.

Returns:

true if both ResultSets are equal, or false otherwise.

getLastErrorMsg

public final String getLastErrorMsg()

Returns the last error message.

Returns:

the last error message.

setDescription

19.02.07 Page 34 of 66

Sets the description at the required position.

Parameters:

parDescription - The new description. parPos - The required position.

setOrderBy

Sets the order by clause at the required position.

Parameters:

 ${\tt parOrderBy}$ - The new order by clause. ${\tt parPos}$ - The required position.

setSelectStmnt

Sets the SELECT statement at the required position.

Parameters:

parSelectStmnt - The new SELECT statement. parPos - The required position.

setSqlSyntaxCode

```
public final void setSqlSyntaxCode(String parSqlSyntaxCode)
```

Sets the SQL syntax code.

Parameters:

parSqlSyntaxCode - The new SQL syntax code.

Package edu.ou.weinmann.repsi.model.util

Provides the utility classes for the model component of the REPSI tool.

See:

Description

Interface Summary		Page
<u>Global</u>	Provides global constants.	48

Class Summary		
Configurator	Manages the configuration parameters.	36
<u>DatabaseAccessor</u>	Accesses the database and manages the details related to Connection, Statement and ResultSet.	37
<u>DatabaseToExcel</u>	Create an Excel compatible file out of database tables.	47
SQLRewriter	Adapts the syntactical variations of different SQL versions by rewriting the SQL statements.	65

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Package edu.ou.weinmann.repsi.model.util Description

Provides the utility classes for the model component of the REPSI tool.

Class Configurator

edu.ou.weinmann.repsi.model.util

java.lang.Object

Ledu.ou.weinmann.repsi.model.util.Configurator

final public class **Configurator** extends Object

Manages the configuration parameters.

Author:

Walter Weinmann

Method Summary		Page	
static Configurator	<pre>getInstance() Returns the current instance of the Configurator class.</pre>	36	
static Configurator	<pre>getInstance(String parFileName, boolean parXml) Returns the current instance of the Configurator class.</pre>	36	
String	<pre>getProperty(String parKey) Returns the value of a given property key.</pre>	37	
static boolean	removeInstance() Removes the current Configurator object.	37	
boolean	<pre>setProperty(String parKey, String parValue) sets the value of a given property key.</pre>	37	

Method Detail

getInstance

public static <u>Configurator</u> getInstance()

Returns the current instance of the ${\tt Configurator}$ class.

Returns:

the current instance of the Configurator class, if the instantiation was successful, or null otherwise.

getInstance

Returns the current instance of the Configurator class.

Parameters:

parFileName - The complete file name of the proprties file including the directory.

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parXml - Whether the properties file constitutes an XML document and false if the properties file consists of a flat file.

Returns:

an instance of the Configurator class, if the instantiation was successful, or null otherwise.

getProperty

```
public String getProperty(String parKey)
```

Returns the value of a given property key.

Parameters:

parkey - The name of the property key.

Returns:

the value of the property key.

removelnstance

```
public static boolean removeInstance()
```

Removes the current Configurator object.

Returns:

true, if an instance was existing, or false otherwise.

setProperty

sets the value of a given property key.

Parameters:

parKey - The name of the property key.
parValue - The new value of this property key.

Returns:

true if the new value was successfully stored.

Class DatabaseAccessor

edu.ou.weinmann.repsi.model.util

```
java.lang.Object
```

Ledu.ou.weinmann.repsi.model.util.DatabaseAccessor

All Implemented Interfaces:

Global

public class **DatabaseAccessor** extends Object implements <u>Global</u>

Accesses the database and manages the details related to Connection, Statement and ResultSet.

Author:

Walter Weinmann

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Fields inherited from interface edu.ou.weinmann.repsi.model.util.Global COLUMN_NAME_APPLIED_PATTERN_ORDER_BY, COLUMN_NAME_APPLIED_PATTERN_SELECT_STMNT, COLUMN_NAME_ARITHMETIC_MEAN, COLUMN_NAME_GEOMETRIC_MEAN, COLUMN_NAME_JDBC_DRIVER, COLUMN_NAME_JDBC_URL, COLUMN_NAME_KURTOSIS, COLUMN_NAME_MAXIMUM_VALUE, COLUMN_NAME_MINIMUM_VALUE, COLUMN_NAME_NAME, COLUMN_NAME_NUMBER_OF_VALUES, COLUMN_NAME_OBJECT, COLUMN_NAME_ORDER_BY, COLUMN_NAME_PASSWORD, COLUMN_NAME_PATTERN_SQL_IDIOM_NAME, COLUMN_NAME_PERCENTILE_25, COLUMN_NAME_PERCENTILE_50, COLUMN_NAME_PERCENTILE_75, COLUMN_NAME_READINGS, COLUMN_NAME_SKEWNESS, COLUMN_NAME_SQL_STATEMENT, COLUMN_NAME_SQL_SYNTAX_CODE, COLUMN_NAME_STANDARD_DEVIATION, COLUMN_NAME_TABLE_NAME, COLUMN_NAME_UNAPPLIED_PATTERN_ORDER_BY, COLUMN_NAME_UNAPPLIED_PATTERN_SELECT_STMNT, COLUMN_NAME_USER_NAME, COLUMN_NAME_VARIANCE, DATABASE_SCHEMA_IDENTIFIER_MASTER, DATABASE_SCHEMA_IDENTIFIER_TEST, DATE_FORMAT_DD_MM_YYYY_HH_MM_SS_SSS_JAVA, DATE_FORMAT_DD_MM_YYYY_HH_MM_SS_SSS_SQL, DATE_FORMAT_DD_MM_YYYY_JAVA, DATE_FORMAT_DD_MM_YYYY_SQL, DATE_FORMAT_YYYY_MM_DD_HH_MM_SS_SSS_SQL, DAY_FACTOR, ERROR_NOT_YET_IMPLEMENTED, FILE_TYPE_EXCEL, FILE_TYPE_XML, INITIAL_CAPACITY_FOREIGN_KEYS, INITIAL_CAPACITY_PRIMARY_KEYS, IS_NULLABLE_YES, MAX_STATISTICAL_OUTLINE, MAX_TRANSACTION_SIZE, META_DATA_COLUMN_NAME, META_DATA_COLUMN_SIZE, META_DATA_DATA_TYPE, META_DATA_DECIMAL_DIGITS, META_DATA_DECIMAL_FACTOR, META_DATA_FOREIGN_KEY_COLUMN_NAME, META_DATA_FOREIGN_KEY_NAME, META_DATA_FOREIGN_KEY_TABLE_NAME, META_DATA_IS_NULLABLE, META_DATA_KEY_SEQUENCE, META_DATA_ORDINAL_POSITION, META_DATA_PRIMARY_KEY_COLUMN_NAME, META_DATA_PRIMARY META_DATA_PRIMARY_KEY_TABLE_NAME, MINIMAL_VALUE_VARCHAR, NULL, NUMBER_FORMAT_JAVA, NUMBER_FORMAT_LONG_JAVA, OPERATION_CODE_CREATE_TABLE, OPERATION_CODE_DROP_AND_CREATE_TABLE, OPERATION_CODE_DROP_TABLE, OPERATION_CODE_EXECUTE_QUERY, OPERATION_CODE_EXECUTE_QUERY_APPLIED, OPERATION_CODE_EXECUTE_QUERY_UNAPPLIED, OPERATION_CODE_INSERT_ROW, OPERATION_TYPE_INSTANCE, OPERATION_TYPE_QUERY, OPERATION_TYPE_SCHEMA, PROPERTIES_FILE_NAME, PROPERTY_PATH_1_DATABASE, PROPERTY_PATH_3_DRIVER, PROPERTY_PATH_3_PASSWORD, PROPERTY_PATH_3_SQL_SYNTAX_CODE, PROPERTY_PATH_3_URL, PROPERTY_PATH_3_USER_NAME, SEPARATOR_COMMA_SPACE_SINGLE_QUOTE, SEPARATOR_SINGLE_QUOTE_COMMA_SPACE_SINGLE_QUOTE, SQL_COLUMN_TYPE_CHAR, SQL_COLUMN_TYPE_VARCHAR2, SQL_SYNTAX_CODE_ORACLE_10G, SQL_SYNTAX_CODE_SQL_99, TRIAL_RUN_STATUS_END_ACTION, TRIAL_RUN_STATUS_END_FINALISATION, TRIAL_RUN_STATUS_END_INITIALISATION, TRIAL_RUN_STATUS_END_PROGRAM, TRIAL_RUN_STATUS_START_ACTION, TRIAL_RUN_STATUS_START_FINALISATION, TRIAL_RUN_STATUS_START_INITIALISATION, TRIAL_RUN_STATUS_START_PROGRAM

Constructor Summary	Page
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final ResultSet	<pre>checkTableName (String parTableName) Returns the metadata of a given database table.</pre>	40
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final boolean	<pre>closeResultSet (ResultSet parResultSet) Closes the given result set.</pre>	41
final boolean	Makes the changes permanent which were created by all statements associated with this Connection object since the last commit or rollback was issued.	41
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boolean	Executes the Statement object by passing the specified SQL statement to the database.	42
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	returns the current date before the execution of the SQL query.	

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final long	getTrialTimeQuantities (long parPrecision) Returns the response time in a desired precision.	46
final String	Returns the current user's name.	46
final boolean	Moves the cursor forward one row from its current position.	46
final boolean	Undoes all changes made in the current transaction and releases any database locks currently held by this Connection object.	46
final boolean	setFetchSize (int parFetchSize) Creates a Statement object associtated with this Connnection object.	47

Constructor Detail

DatabaseAccessor

Constructs a DatabaseAccessor object.

DatabaseAccessor

Constructs a DatabaseAccessor object.

Method Detail

checkColumnName

Returns the metadata of a given database column.

Parameters:

```
parTableName - The name of the database table. parColumnName - The name of the database column.
```

Returns:

the current ResultSet object if the given database column exist, null otherwise.

checkTableName

```
public final ResultSet checkTableName(String parTableName)
```

Returns the metadata of a given database table.

Parameters:

parTableName - The name of the database table.

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Returns:

the current ResultSet object if the given database table exist, null otherwise.

closeConnection

```
public final boolean closeConnection()
```

Closes the currently open connection.

Returns:

false if the database connectionObject could not be closed, or true otherwise

closeResultSet

public final boolean closeResultSet(ResultSet parResultSet)

Closes the given result set.

Parameters:

parResultSet - The ResultSet object to be closed.

Returns:

false if the result set could not be closed, or true otherwise.

commit

```
public final boolean commit()
```

Makes the changes permanent which were created by all statements associated with this Connection object since the last commit or rollback was issued.

Returns:

false if the changes could not be committed, or true otherwise.

createStatement

```
public final boolean createStatement()
```

Creates a Statement object associtated with this Connnection object.

Returns:

true if the Statement could be created, or false otherwise.

executeQuery

```
public final boolean executeQuery(String parStmnt)
```

Executes the Statement object by passing the specified SQL statement to the database. It is used for executing queries formulated using SQL:1999.

Parameters:

parStmnt - The SQL statement.

Returns:

true if the Statement could be executed without any problems, or false otherwise.

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executeQuery

Executes the Statement object by passing the specified SQL statement to the database. It is used for executing queries formulated using a given SQL syntax version.

Parameters:

parStmnt - The SQL statement.
parSQLSyntaxCodeSource - Rhe SQL syntax version of the SQL statement.

Returns:

true if the Statement could be executed without any problems, or false otherwise.

executeQueryTrialRun

Executes the Statement object by passing the specified SQL statement to the database. It is used for executing queries formulated using a given SQL syntax version during a trial run.

Parameters:

```
parStmnt - The SQL statement.
parSQLSyntaxCodeSource - Rhe SQL syntax version of the SQL statement.
```

Returns:

true if the Statement could be executed without any problems, or false otherwise.

executeUpdate

```
public final boolean executeUpdate(String parStmnt)
```

Executes the Statement object by passing the specified SQL statement to the database. It is used for executing updates with SQL statements formulated using SQL:1999.

Parameters:

parStmnt - The SQL statement.

Returns

true if the Statement could be executed without any problems, or false otherwise.

executeUpdate

Executes the Statement object by passing the specified SQL statement to the database. It is used for executing updates with SQL statements formulated using SQL:1999. This method ignores duplicates.

Parameters:

```
parStmnt - The SQL statement.
parIgnoreDuplicate - Whether duplicates should be ignored.
```

Returns:

true if the Statement could be executed without any problems, or false otherwise.

executeUpdate

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Executes the Statement object by passing the specified SQL statement to the database. It is used for executing updates with rewriting of the query.

Parameters:

parStmnt - The SQL statement.
parSQLSyntaxCodeSource - The SQL syntax version of the SQL statement.

Returns:

true if the Statement could be executed without any problems, or false otherwise.

executeUpdate

Executes the Statement object by passing the specified SQL statement to the database. It is used for executing updates with rewriting of the query. This method ignores duplicates.

Parameters:

```
parStmnt - The SQL statement.
parSQLSyntaxCodeSource - The SQL syntax version of the SQL statement.
parIgnoreDuplicate - Whether duplicates should be ignored.
```

Returns:

true if the Statement could be executed without any problems, or false otherwise.

executeUpdateDirect

Executes the Statement object by passing the specified SQL statement to the database. It is used for executing updates with SQL statements without any rewriting of the SQL statement. This method ignores duplicates.

Parameters:

```
parStmnt - The SQL statement.
parIgnoreDuplicate - Whether duplicates should be ignored.
```

Returns:

true if the Statement could be executed without any problems, or false otherwise.

getArrayBigDecimal

```
public final BigDecimal[] getArrayBigDecimal(int parPos)
```

Retrieves the value of the designated column in the current row of this ResultSet object as an Array object of BigDecimal.

Parameters:

parPos - The index of the desired column (starting with 1).

Returns:

an Array object of BigDecimal.

getArrayBigDecimal

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Retrieves the value of the designated column in the current row of this ResultSet object as an Array object of BigDecimal.

Parameters:

parResultSet - The ResultSet object.
parPos - The index of the desired column (starting with 1).

Returns:

an Array object of BigDecimal.

getColumn

```
public final Object getColumn(int parPos)
```

Retrieves the value of the designated column in the current row of this ResultSet object as an Object.

Parameters:

parPos - The index of the desired column (starting with 1).

Returns:

an Object if the access was successasful, and null otherwise.

getColumn

```
public final Object getColumn(String parColumnName)
```

Retrieves the value of the designated column in the current row of this ResultSet object as an Object.

Parameters:

parColumnName - The name of the required database column.

Returns:

an Object if the access was successasful, and null otherwise.

getColumns

```
public final Map getColumns()
```

Retrieves a Map object containing the values of all columns of the database row.

Returns:

a Map if the access was successasful, and null otherwise.

getConnection

```
public final boolean getConnection()
```

Attempts to establish a connection to the database URL given in the properties.

Returns:

false if the connection could not be established, or true otherwise.

getConnection

Attempts to establish a connection to the given database URL.

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Parameters:

```
parUrl - The database URL.
parUserName - The name of the database user.
parPassword - The password of the database user.
```

Returns:

false if the connection could not be established, or true otherwise.

getConnectionObject

```
public final Connection getConnectionObject()
```

Returns the current Connection object.

Returns:

the current Connection object.

getNumberRows

```
public final int getNumberRows()
```

Returns the number of rows processed by the SQL query.

Returns:

the number of rows processed by the SQL query.

getResultSetObject

```
public final ResultSet getResultSetObject()
```

Returns the current ResultSet object.

Returns:

the current ResultSet object.

getSqlSyntaxCodeTarget

```
public final String getSqlSyntaxCodeTarget()
```

Returns the SQL syntax code of the target database.

Returns:

the SQL syntax code of the target database.

getTrialRunEndTime

```
\verb"public final Date {\it getTrialRunEndTime"}()
```

Returns the current date after the execution of the SQL query.

Returns:

the current date after the execution of the SQL query.

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getTrialRunErrorMessage

```
public final String getTrialRunErrorMessage()
```

Returns the error message triggered by the execution of the SQL query.

Returns:

the error message triggered by the execution of the SQL query.

getTrialRunStartTime

```
public final Date getTrialRunStartTime()
```

Returns the current date before the execution of the SQL query.

Returns:

the current date before the execution of the SQL query.

getTrialTimeQuantities

```
\verb"public final long getTrialTimeQuantities" (long parPrecision)
```

Returns the response time in a desired precision.

Parameters:

parPrecision - The exponent (base 10) of the desired presicion.

Returns:

the response time in the desired precision.

getUserName

```
public final String getUserName()
```

Returns the current user's name.

Returns:

the current user's name.

next

```
public final boolean next()
```

Moves the cursor forward one row from its current position.

Returns:

false if there are no further rows to process, or true otherwise.

rollback

```
public final boolean rollback()
```

Undoes all changes made in the current transaction and releases any database locks currently held by this Connection object.

Returns:

false if the changes could not be made undone, or true otherwise.

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setFetchSize

public final boolean setFetchSize(int parFetchSize)

Creates a Statement object associtated with this Connnection object.

Parameters:

parFetchSize - The fetch size.

Returns:

true if the fetch size could be modified, or false otherwise.

Class DatabaseToExcel

edu.ou.weinmann.repsi.model.util

java.lang.Object

Ledu.ou.weinmann.repsi.model.util.DatabaseToExcel

public class **DatabaseToExcel** extends Object

Create an Excel compatible file out of database tables.

Author:

Walter Weinmann

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Constructs a DatabaseToExcel object.	47

Metho	Method Summary	
final boolean	Closes the current workbook.	48
final boolean	<pre>createSheet(String parSheetName, int parSheetPosition, ResultSet parResultSet, boolean parHeader) Creates a new sheet.</pre>	48
final boolean	<pre>createWorkbook (String parFileName) Creates a new workbook.</pre>	48
final String	getLastErrorMsg() Returns the last error message.	48

Constructor Detail

DatabaseToExcel

public DatabaseToExcel()

Constructs a DatabaseToExcel object.

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Method Detail

closeWorkbook

public final boolean closeWorkbook()

Closes the current workbook.

Returns:

true if the creation of the file was completed without any error.

createSheet

Creates a new sheet.

Parameters:

```
parSheetName - The name of the worksheet.
parSheetPosition - The position of the worksheet in the Excel file.
parResultSet - The ResultSet to be converted into Excel format.
parHeader - Whether a header is required.
```

Returns:

true if the creation of the sheet was completed without any error.

createWorkbook

```
\verb"public final boolean {\bf createWorkbook} (String parFileName)
```

Creates a new workbook.

Parameters:

parFileName - The complete file name including the directory.

Returns:

true if the creation of the file was completed without any error.

getLastErrorMsg

```
public final String getLastErrorMsg()
```

Returns the last error message.

Returns:

the last error message.

Interface Global

edu.ou.weinmann.repsi.model.util

All Known Implementing Classes:

DatabaseAccessor

public interface Global

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Provides global constants.

Author:

Walter Weinmann

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META DATA DECIMAL DIGITS Meta data - decimal digits. STITED META DATA PERIOR KEY COLUMN NAME Meta data - foreign Key column name. Digitim META DATA FOREIGN KEY NAME Meta data - foreign key column name. STITED META DATA FOREIGN KEY NAME Meta data - foreign key column name. STITED META DATA FOREIGN KEY NAME Meta data - foreign key aname. STITED META DATA FOREIGN KEY NAME Meta data - foreign key lable name. STITED META DATA FOREIGN KEY TABLE NAME Meta data - is nullable. STITED META DATA STULLABLE Meta data - is nullable. STITED META DATA STULLABLE Meta data - is nullable. STITED META DATA META STULLABLE Meta data - romany key sequence number. STITED META DATA PRIMANY KEY COLUMN NAME Meta data - primany key column name. STITED META DATA PRIMANY KEY COLUMN NAME Meta data - primany key column name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME Meta data - primany key name. STITED META DATA PRIMANY KEY NAME META DATA			58
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Field Detail

COLUMN_NAME_APPLIED_PATTERN_ORDER_BY

public static final String COLUMN_NAME_APPLIED_PATTERN_ORDER_BY

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Database column name.

COLUMN_NAME_APPLIED_PATTERN_SELECT_STMNT

public static final String COLUMN_NAME_APPLIED_PATTERN_SELECT_STMNT

Database column name.

COLUMN NAME ARITHMETIC MEAN

public static final String COLUMN_NAME_ARITHMETIC_MEAN

Database column name.

COLUMN_NAME_GEOMETRIC_MEAN

public static final String COLUMN_NAME_GEOMETRIC_MEAN

Database column name.

COLUMN_NAME_JDBC_DRIVER

public static final String COLUMN_NAME_JDBC_DRIVER

Database column name.

COLUMN_NAME_JDBC_URL

public static final String COLUMN_NAME_JDBC_URL

Database column name.

COLUMN_NAME_KURTOSIS

public static final String COLUMN_NAME_KURTOSIS

Database column name.

COLUMN NAME MAXIMUM VALUE

public static final String COLUMN_NAME_MAXIMUM_VALUE

Database column name.

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COLUMN NAME MINIMUM VALUE

public static final String COLUMN_NAME_MINIMUM_VALUE

Database column name.

COLUMN NAME NAME

public static final String COLUMN_NAME_NAME

Database column name.

COLUMN_NAME_NUMBER_OF_VALUES

public static final String COLUMN_NAME_NUMBER_OF_VALUES

Database column name.

COLUMN NAME OBJECT

public static final String COLUMN_NAME_OBJECT

Database column name.

COLUMN NAME ORDER BY

public static final String COLUMN_NAME_ORDER_BY

Database column name.

COLUMN NAME PASSWORD

public static final String COLUMN_NAME_PASSWORD

Database column name.

COLUMN_NAME_PATTERN_SQL_IDIOM_NAME

 $\verb"public static final String {\tt COLUMN_NAME_PATTERN_SQL_IDIOM_NAME"}$

Database column name.

COLUMN_NAME_PERCENTILE_25

public static final String COLUMN_NAME_PERCENTILE_25

Database column name.

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COLUMN NAME PERCENTILE 50

public static final String COLUMN_NAME_PERCENTILE_50

Database column name.

COLUMN_NAME_PERCENTILE_75

public static final String COLUMN_NAME_PERCENTILE_75

Database column name.

COLUMN_NAME_READINGS

public static final String COLUMN_NAME_READINGS

Database column name.

COLUMN NAME SKEWNESS

public static final String COLUMN_NAME_SKEWNESS

Database column name.

COLUMN_NAME_SQL_STATEMENT

public static final String COLUMN_NAME_SQL_STATEMENT

Database column name.

COLUMN NAME SQL SYNTAX CODE

 $\verb"public static final String {\tt COLUMN_NAME_SQL_SYNTAX_CODE}"$

Database column name.

COLUMN_NAME_STANDARD_DEVIATION

 $\verb"public static final String {\tt COLUMN_NAME_STANDARD_DEVIATION"}$

Database column name.

COLUMN_NAME_TABLE_NAME

public static final String COLUMN_NAME_TABLE_NAME

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Database column name.

COLUMN_NAME_UNAPPLIED_PATTERN_ORDER_BY

public static final String COLUMN_NAME_UNAPPLIED_PATTERN_ORDER_BY

Database column name.

COLUMN_NAME_UNAPPLIED_PATTERN_SELECT_STMNT

public static final String COLUMN_NAME_UNAPPLIED_PATTERN_SELECT_STMNT

Database column name.

COLUMN_NAME_USER_NAME

public static final String COLUMN_NAME_USER_NAME

Database column name.

COLUMN NAME VARIANCE

public static final String COLUMN_NAME_VARIANCE

Database column name.

DATABASE_SCHEMA_IDENTIFIER_MASTER

public static final String DATABASE_SCHEMA_IDENTIFIER_MASTER

Database schema identifier of the master database.

DATABASE_SCHEMA_IDENTIFIER_TEST

public static final String DATABASE_SCHEMA_IDENTIFIER_TEST

Database schema identifier of the test database.

DATE FORMAT DD MM YYYY JAVA

public static final String DATE_FORMAT_DD_MM_YYYY_JAVA

Date format - date - Java format.

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DATE_FORMAT_DD_MM_YYYY_SQL

public static final String DATE_FORMAT_DD_MM_YYYY_SQL

Date format - date - SQL format.

DATE_FORMAT_DD_MM_YYYY_HH_MM_SS_SSS_JAVA

public static final String DATE_FORMAT_DD_MM_YYYY_HH_MM_SS_SSS_JAVA

Date format - timestamp incl. milliseconds - Java format.

DATE_FORMAT_DD_MM_YYYY_HH_MM_SS_SSS_SQL

public static final String DATE_FORMAT_DD_MM_YYYY_HH_MM_SS_SSS_SQL

Date format - timestamp incl. milliseconds - SQL format.

DATE FORMAT YYYY MM DD HH MM SS SSS SQL

public static final String DATE_FORMAT_YYYY_MM_DD_HH_MM_SS_SSS_SQL

Date format - timestamp incl. milliseconds - SQL format.

DAY FACTOR

public static final long DAY_FACTOR

Day factor in milliseconds.

ERROR_NOT_YET_IMPLEMENTED

public static final String ERROR_NOT_YET_IMPLEMENTED

Error message - not yet implemented.

FILE_TYPE_EXCEL

public static final String ${\tt FILE_TYPE_EXCEL}$

File type - Excel.

FILE_TYPE_XML

public static final String FILE_TYPE_XML

File type - XML.

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INITIAL_CAPACITY_FOREIGN_KEYS

public static final int INITIAL_CAPACITY_FOREIGN_KEYS

Initial capacity of foreign key columns.

INITIAL_CAPACITY_PRIMARY_KEYS

public static final int INITIAL_CAPACITY_PRIMARY_KEYS

Initial capacity of primary key columns.

IS_NULLABLE_YES

public static final String IS_NULLABLE_YES

Is nullable - yes.

MAX_STATISTICAL_OUTLINE

public static final long MAX_STATISTICAL_OUTLINE

Maximum number of statistical measurement values.

MAX TRANSACTION SIZE

public static final long MAX_TRANSACTION_SIZE

Maximum size of rows processed inside one transaction.

META_DATA_COLUMN_NAME

public static final String ${\tt META_DATA_COLUMN_NAME}$

Meta data - column name.

META_DATA_COLUMN_SIZE

public static final String META_DATA_COLUMN_SIZE

Meta data - column size.

META DATA DATA TYPE

public static final String META_DATA_TYPE

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Meta data - data type.

META DATA DECIMAL DIGITS

public static final String META_DATA_DECIMAL_DIGITS

Meta data - decimal digits.

META DATA DECIMAL FACTOR

public static final String META_DATA_DECIMAL_FACTOR

Meta data - decimal factor.

META_DATA_FOREIGN_KEY_COLUMN_NAME

public static final String META_DATA_FOREIGN_KEY_COLUMN_NAME

Meta data - foreign key column name.

META_DATA_FOREIGN_KEY_NAME

public static final String META_DATA_FOREIGN_KEY_NAME

Meta data - foreign key name.

META_DATA_FOREIGN_KEY_TABLE_NAME

public static final String META_DATA_FOREIGN_KEY_TABLE_NAME

Meta data - foreign key table name.

META_DATA_IS_NULLABLE

public static final String META_DATA_IS_NULLABLE

Meta data - is nullable.

META DATA KEY SEQUENCE

public static final String META_DATA_KEY_SEQUENCE

Meta data - key sequence number.

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META DATA ORDINAL POSITION

public static final String META_DATA_ORDINAL_POSITION

Meta data - ordinal position.

META DATA PRIMARY KEY COLUMN NAME

public static final String META_DATA_PRIMARY_KEY_COLUMN_NAME

Meta data - primary key column name.

META_DATA_PRIMARY_KEY_NAME

public static final String META_DATA_PRIMARY_KEY_NAME

Meta data - primary key name.

META_DATA_PRIMARY_KEY_TABLE_NAME

public static final String META_DATA_PRIMARY_KEY_TABLE_NAME

Meta data - primary key table name.

MINIMAL VALUE VARCHAR

public static final String MINIMAL_VALUE_VARCHAR

Minimal value - VARCHAR.

NUMBER_FORMAT_JAVA

public static final String NUMBER_FORMAT_JAVA

Number format - Java format.

NUMBER_FORMAT_LONG_JAVA

public static final String ${\tt NUMBER_FORMAT_LONG_JAVA}$

Number format - long - Java format.

NULL

public static final String NULL

Null value.

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OPERATION CODE CREATE TABLE

public static final String OPERATION_CODE_CREATE_TABLE

Operation code - create table.

OPERATION_CODE_DROP_AND_CREATE_TABLE

public static final String OPERATION_CODE_DROP_AND_CREATE_TABLE

Operation code - drop and create table.

OPERATION CODE DROP TABLE

public static final String OPERATION_CODE_DROP_TABLE

Operation code - drop table.

OPERATION_CODE_EXECUTE_QUERY

public static final String OPERATION_CODE_EXECUTE_QUERY

Operation code - execute query.

OPERATION CODE EXECUTE QUERY APPLIED

public static final String OPERATION_CODE_EXECUTE_QUERY_APPLIED

Operation code - execute query applied.

OPERATION_CODE_EXECUTE_QUERY_UNAPPLIED

 $\verb"public static final String {\tt OPERATION_CODE_EXECUTE_QUERY_UNAPPLIED}"$

Operation code - execute query unapplied.

OPERATION_CODE_INSERT_ROW

 $\verb"public static final String {\tt OPERATION_CODE_INSERT_ROW"}$

Operation code - insert row.

OPERATION TYPE INSTANCE

public static final String OPERATION_TYPE_INSTANCE

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Operation type - instance.

OPERATION TYPE QUERY

public static final String OPERATION_TYPE_QUERY

Operation type - query.

OPERATION TYPE SCHEMA

public static final String OPERATION_TYPE_SCHEMA

Operation type - schema.

PROPERTIES_FILE_NAME

public static final String PROPERTIES_FILE_NAME

Properties file name.

PROPERTY_PATH_1_DATABASE

public static final String PROPERTY_PATH_1_DATABASE

Property file path element - level 1 - database.

PROPERTY_PATH_3_DRIVER

public static final String PROPERTY_PATH_3_DRIVER

Property file path element - level 3 - driver.

PROPERTY_PATH_3_PASSWORD

public static final String PROPERTY_PATH_3_PASSWORD

Property file path element - level 3 - password.

PROPERTY PATH 3 SQL SYNTAX CODE

public static final String PROPERTY_PATH_3_SQL_SYNTAX_CODE

Property file path element - level 3 - SQL syntax code.

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PROPERTY PATH 3 URL

public static final String PROPERTY_PATH_3_URL

Property file path element - level 3 - database URL.

PROPERTY PATH 3 USER NAME

public static final String PROPERTY_PATH_3_USER_NAME

Property file path element - level 3 - user name.

SEPARATOR COMMA SPACE SINGLE QUOTE

public static final String SEPARATOR_COMMA_SPACE_SINGLE_QUOTE

Separator - comma, space & single quote.

SEPARATOR SINGLE QUOTE COMMA SPACE SINGLE QUOTE

public static final String SEPARATOR_SINGLE_QUOTE_COMMA_SPACE_SINGLE_QUOTE

Separator - single quote, comma, space & single quote.

SQL COLUMN TYPE CHAR

public static final String SQL_COLUMN_TYPE_CHAR

SQL column type - CHAR.

SQL COLUMN TYPE VARCHAR2

public static final String SQL_COLUMN_TYPE_VARCHAR2

SQL column type - VARCHAR2.

SQL_SYNTAX_CODE_ORACLE_10G

public static final String ${\tt SQL_SYNTAX_CODE_ORACLE_10G}$

SQL syntax code - Oracle 10g Release 2.

SQL_SYNTAX_CODE_SQL_99

public static final String SQL_SYNTAX_CODE_SQL_99

SQL syntax code - standard SQL:1999.

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TRIAL RUN STATUS END ACTION

public static final String TRIAL_RUN_STATUS_END_ACTION

Trial run status: end action.

TRIAL_RUN_STATUS_END_FINALISATION

public static final String TRIAL_RUN_STATUS_END_FINALISATION

Trial run status: end finalisation.

TRIAL RUN STATUS END INITIALISATION

public static final String TRIAL_RUN_STATUS_END_INITIALISATION

Trial run status: end initialisation.

TRIAL RUN STATUS END PROGRAM

public static final String TRIAL_RUN_STATUS_END_PROGRAM

Trial run status: end program.

TRIAL RUN STATUS START ACTION

public static final String TRIAL_RUN_STATUS_START_ACTION

Trial run status: start action.

TRIAL RUN STATUS START FINALISATION

 $\verb"public static final String {\bf TRIAL_RUN_STATUS_START_FINALISATION"}$

Trial run status: start finalisation.

TRIAL_RUN_STATUS_START_INITIALISATION

public static final String TRIAL_RUN_STATUS_START_INITIALISATION

Trial run status: start initialisation.

TRIAL RUN STATUS START PROGRAM

public static final String TRIAL_RUN_STATUS_START_PROGRAM

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Trial run status: start program.

Class SQLRewriter

edu.ou.weinmann.repsi.model.util

java.lang.Object

Ledu.ou.weinmann.repsi.model.util.SQLRewriter

public class **SQLRewriter** extends Object

Adapts the syntactical variations of different SQL versions by rewriting the SQL statements.

Author:

Walter Weinmann

Constructor Summary	Page
<pre>SQLRewriter()</pre>	0.5
Constructs a SQLRewriter object.	65

Metho	Method Summary	
	<pre>deleteStoredDomainDefinitions()</pre>	0.5
void	Deletes the stored domain definitions.	65
	<pre>getLastErrorMsg()</pre>	0.5
String	Returns the latest error message.	65
final String	<pre>rewrite(String parSQLSyntaxCodeSource, String parSQLSyntaxCodeTarget, String parStmnt)</pre>	66
	Rewrites a SQL statement from one syntactical version to another syntactical version.	

Constructor Detail

SQLRewriter

public SQLRewriter()

Constructs a SQLRewriter object.

Method Detail

deleteStoredDomainDefinitions

public final void deleteStoredDomainDefinitions()

Deletes the stored domain definitions.

getLastErrorMsg

public final String getLastErrorMsg()

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Returns the latest error message.

Returns:

the latest error message.

rewrite

Rewrites a SQL statement from one syntactical version to another syntactical version.

Parameters:

```
\label{local_parsqlsyntax} $$ parsqlsyntaxCodeSource - The SQL syntax version of input statement. $$ parsqlsyntaxCodeTarget - The SQL syntax version of output statement. $$ parstmnt - The SQL statement. $$
```

Returns:

the SQL statement in the new syntax version.

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