
Package

com.psychofree.server

com.psychofree.server Class PBMSEngine

java.lang.Object

└-com.psychofree.server.PBMSEngine

```
public class PBMSEngine
extends java.lang.Object
```

Class implementing the PBMS engine service

Field Summary

public	inputObject
public	outputObject

Constructor Summary

public	PBMSEngine (java.lang.String patternBaseHost) Creates a new instance of PBMSEngine
--------	---

Method Summary

void	close ()
PBMSStatement	readStatement (com.psychofree.utilities.PSYCHOfreeConnection clientConnection) Read an object from the input stream that contains a PDL, PML or PQL statement and convert it into a PBMSStatement
void	runStatement (com.psychofree.utilities.PSYCHOfreeConnection clientConnection, PBMSStatement statement) This method read the given statement in order to understand if it is a PDL, PML or PQL operation and then translates it into a seqence of PL/SQL operations and commands.

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

inputObject

```
public java.io.ObjectInput inputObject
```

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outputObject

```
public java.io.ObjectOutput outputObject
```

Constructors

PBMSEngine

```
public PBMSEngine(java.lang.String patternBaseHost)
```

Creates a new instance of PBMSEngine

Parameters:

patternBaseHost - The host on which the server runs

Throws:

IOException - If internal streams used by this engine can't be initialized

Methods

runStatement

```
public void runStatement(com.psychofree.utilities.PSYCHOfreeConnection
clientConnection,
    PBMSStatement statement)
    throws java.io.IOException,
        java.sql.SQLException
```

This method read the given statement in order to understand if it is a PDL, PML or PQL operation and then translates it into a sequence of PL/SQL operations and commands. If the operation is a query, a new window containing the selected items is shown. Otherwise a String containing the outcome of the execution of the command is sent via the opened socket to the connected object.

Parameters:

clientConnection - The object representing the client which performed the request
statement - PBMSStatement The statement to be translated and executed

Throws:

IOException - If errors occur while serializing result
SQLException - If transaction can't be committed

readStatement

```
public final PBMSStatement readStatement(com.psychofree.utilities.PSYCHOfreeConnection
clientConnection)
    throws java.io.IOException,
        java.lang.ClassNotFoundException,
        UserConnectionClosedException,
        UserNotConnectedException
```

Read an object from the input stream that contains a PDL, PML or PQL statement and convert it into a PBMSStatement

Parameters:

clientConnection - The object representing the client which performed the request

Returns:

The translation of the object read from the input stream, null if client close his connection

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Throws:

IOException - if any error occurs while reading input

ClassNotFoundException - if any error occurs while reading input

close

```
public void close()
```

com.psychofree.server Class PSYCHOFreeServer

java.lang.Object

└-com.psychofree.server.PSYCHOFreeServer

```
public class PSYCHOFreeServer
extends java.lang.Object
```

Entry point for psychofree server

Constructor Summary

public	PSYCHOFreeServer()
--------	------------------------------------

Method Summary

static void	main (java.lang.String[] args)
-------------	--

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

PSYCHOFreeServer

```
public PSYCHOFreeServer()
```

Methods

main

```
public static void main(java.lang.String[] args)
```

com.psychofree.server Class UserConnectionClosedException

```

java.lang.Object
  |
  +- java.lang.Throwable
      |
      +- java.lang.Exception
          |
          +- com.psychofree.server.UserConnectionClosedException
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class UserConnectionClosedException
extends java.lang.Exception
  
```

This exception is thrown if client closed his connection (for example closing client window)

Constructor Summary

public	UserConnectionClosedException()
public	UserConnectionClosedException(java.lang.String msg)

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

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

Constructors

UserConnectionClosedException

```
public UserConnectionClosedException()
```

UserConnectionClosedException

```
public UserConnectionClosedException(java.lang.String msg)
```

Parameters:

msg - The error message

com.psychofree.server Class UserNotConnectedException

```

java.lang.Object
  |-- java.lang.Throwable
        |-- java.lang.Exception
              |-- com.psychofree.server.UserNotConnectedException
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class UserNotConnectedException
extends java.lang.Exception
  
```

This exception is thrown if the client connection is not alive while the server is processing a request

Constructor Summary

public	UserNotConnectedException()
public	UserNotConnectedException(java.lang.String msg)

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

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

Constructors

UserNotConnectedException

```
public UserNotConnectedException()
```

UserNotConnectedException

```
public UserNotConnectedException(java.lang.String msg)
```

Parameters:

msg - The error message

Package

com.psychofree.statements

com.psychofree.statements

Class CreateClass

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
     |
     +- com.psychofree.statements.PDL_PMLStatement
        |
        +- com.psychofree.statements.CreateClass
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class CreateClass
extends PDL\_PMLStatement
  
```

This class wraps a CREATE CLASS statement of PDL creating a new class based on an existing pattern type

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	CreateClass (java.sql.Connection conn) Creates a new instance of CreateClass
public	CreateClass (java.lang.String className, java.lang.String patternTypeName) Creates a new instance of CreateClass

Method Summary

java.lang.String	getClassName ()
java.lang.String	getPatternTypeName ()
java.lang.String	interpretStatement () Translates the PDL statement in a call to the PL/pgSQL function CreateClass that performs the creation
void	parseStatement (java.io.StreamTokenizer st) Parse the PDL command CREATE CLASS

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

CreateClass

```
public CreateClass(java.sql.Connection conn)
```

Creates a new instance of CreateClass

CreateClass

```
public CreateClass(java.lang.String ClassName,  
                    java.lang.String PatternTypeName)
```

Creates a new instance of CreateClass

Parameters:

ClassName - the class name

PatternTypeName - the patter type name of the class

Methods

getClassName

```
public java.lang.String getClassName()
```

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PDL command CREATE CLASS

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

Translates the PDL statement in a call to the PL/pgSQL function CreateClass that performs the creation

Returns:

A message containing the outcome of the execution

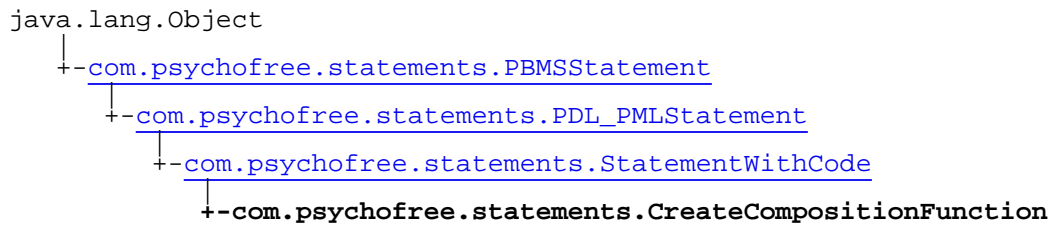
Throws:

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[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class CreateCompositionFunction



All Implemented Interfaces:

java.io.Serializable

public class **CreateCompositionFunction**
 extends [StatementWithCode](#)

This class wraps a CREATE COMPOSITION FUNCTION statement of PDL

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	CreateCompositionFunction (java.sql.Connection conn) Creates a new instance of CreateCompositionFunction
--------	---

Method Summary

java.lang.String	getCode ()
java.lang.String	getFunctionName ()
CreatePatternType	getNewType ()
java.util.ArrayList	getParamFields ()
java.lang.String	getPatternName ()
java.lang.String	getPatternTypeName ()
java.lang.String	getPNameInput1 ()
java.lang.String	getPNameInput2 ()
java.lang.String	getPTNameInput1 ()
java.lang.String	getPTNameInput2 ()

java.lang.String	interpretStatement() A composition function is translated in a stored function of PL/pgSQL that takes in input two patterns and returns a new one combining them as described in the body of the function
boolean	isDefinedNew()
void	parseStatement(java.io.StreamTokenizer st) Parse the PDL command CREATE COMPOSITION FUNCTION

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

CreateCompositionFunction

```
public CreateCompositionFunction(java.sql.Connection conn)
```

Creates a new instance of CreateCompositionFunction

Methods

getFunctionName

```
public java.lang.String getFunctionName()
```

Returns:

the name of the composition function

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

Returns:

the the pattern type

getPatternName

```
public java.lang.String getPatternName()
```

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Returns:

The pattern type name resulting from the composition

getPTNameInput1

```
public java.lang.String getPTNameInput1()
```

Returns:

the first pattern type involved in the composition

getPNameInput1

```
public java.lang.String getPNameInput1()
```

Returns:

the id of the first parameter used in the composition function

getPTNameInput2

```
public java.lang.String getPTNameInput2()
```

Returns:

the second pattern type involved in the composition

getPNameInput2

```
public java.lang.String getPNameInput2()
```

Returns:

the id of the second parameter used in the composition function

getNewType

```
public CreatePatternType getNewType()
```

isDefinedNew

```
public boolean isDefinedNew()
```

getParamFields

```
public java.util.ArrayList getParamFields()
```

Returns:

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the list of parameters used in the composition function

getCode

```
public java.lang.String getCode()
```

Returns:

the code of the composition function

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PDL command CREATE COMPOSITION FUNCTION

Parameters:

st - the StreamTokenizer containing the PDL command

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

A composition function is translated in a stored function of PL/pgSQL that takes in input two patterns and returns a new one combining them as described in the body of the function

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class CreateCondition

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
      |
      +- com.psychofree.statements.PDL_PMLStatement
          |
          +- com.psychofree.statements.StatementWithCode
              |
              +- com.psychofree.statements.CreateCondition
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class CreateCondition
extends StatementWithCode
  
```

This class wraps a CREATE CONDITION statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	CreateCondition (java.sql.Connection conn) Creates a new instance of CreateClass
--------	---

Method Summary

java.lang.String	getCode ()
java.lang.String	getConditionName ()
java.util.ArrayList	getParamFields ()
java.lang.String	getPatternName ()
java.lang.String	getPatternTypeName ()
java.lang.String	interpretStatement () A condition is translated in a stored function of PL/pgSQL that takes in input a pattern and returns an integer.
void	parseStatement (java.io.StreamTokenizer st) Parse the PDL command CREATE CONDITION

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

CreateCondition

```
public CreateCondition(java.sql.Connection conn)
```

Creates a new instance of CreateClass

Methods

getConditionName

```
public java.lang.String getConditionName()
```

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

getPatternName

```
public java.lang.String getPatternName()
```

getCode

```
public java.lang.String getCode()
```

getParamFields

```
public java.util.ArrayList getParamFields()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PDL command CREATE CONDITION

Parameters:

st - the StreamTokenizer containing the PDL command

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Throws:

[ParseError](#) - if there is any syntax error in the PDL command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

A condition is translated in a stored function of PL/pgSQL that takes in input a pattern and returns an integer.

Returns:

A message containing the outcome of the execution.

com.psychofree.statements

Class CreateFormula

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
     |
     +- com.psychofree.statements.PDL_PMLStatement
        |
        +- com.psychofree.statements.StatementWithCode
           |
           +- com.psychofree.statements.CreateFormula
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class CreateFormula
extends StatementWithCode
  
```

Creates a new formula function for a pattern type pt. The formula is implemented with a stored PL/pgSQL function which takes in input an instance of pt and a data source name and returns the name of a temporary table containing the results

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	CreateFormula (java.sql.Connection conn)
--------	--

Method Summary

java.lang.String	getCode ()
------------------	----------------------------

java.util.ArrayList	getParamFields ()
---------------------	-----------------------------------

java.lang.String	getPatternName ()
------------------	-----------------------------------

java.lang.String	getPatternTypeName ()
------------------	---------------------------------------

java.lang.String	interpretStatement () Translates the formula definition in a PL/pgSQL function
------------------	---

void	parseStatement (java.io.StreamTokenizer st) Parse the formula definition
------	---

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class `java.lang.Object``equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

CreateFormula

```
public CreateFormula(java.sql.Connection conn)
```

Methods

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

getPatternName

```
public java.lang.String getPatternName()
```

getParamFields

```
public java.util.ArrayList getParamFields()
```

getCode

```
public java.lang.String getCode()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the formula definition

Parameters:

`st` - the StreamTokenizer containing the PDL command

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

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Translates the formula definition in a PL/pgSQL function

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class CreateJoinCondition

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
      |
      +- com.psychofree.statements.PDL_PMLStatement
          |
          +- com.psychofree.statements.StatementWithCode
              |
              +- com.psychofree.statements.CreateJoinCondition
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class CreateJoinCondition
extends StatementWithCode
  
```

This class wraps a CREATE JOIN CONDITION statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	CreateJoinCondition (java.sql.Connection conn) Creates a new instance of CreateClass
--------	---

Method Summary

java.lang.String	getCode ()
java.lang.String	getConditionName ()
java.util.ArrayList	getParamFields ()
java.lang.String	getPatternName1 ()
java.lang.String	getPatternName2 ()
java.lang.String	getPatternTypeName1 ()
java.lang.String	getPatternTypeName2 ()
java.lang.String	interpretStatement () A join condition is translated in a stored function of PL/pgSQL that takes in input two patterns and returns a boolean
void	parseStatement (java.io.StreamTokenizer st) Parse the PDL command CREATE JOIN CONDITION

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

CreateJoinCondition

```
public CreateJoinCondition(java.sql.Connection conn)
```

Creates a new instance of CreateClass

Methods

getConditionName

```
public java.lang.String getConditionName()
```

getPatternTypeName1

```
public java.lang.String getPatternTypeName1()
```

getPatternName1

```
public java.lang.String getPatternName1()
```

getCode

```
public java.lang.String getCode()
```

getParamFields

```
public java.util.ArrayList getParamFields()
```

getPatternTypeName2

```
public java.lang.String getPatternTypeName2()
```

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getPatternName2

```
public java.lang.String getPatternName2()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PDL command CREATE JOIN CONDITION

Parameters:

st - the StreamTokenizer containing the PDL command

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

A join condition is translated in a stored function of PL/pgSQL that takes in input two patterns and returns a boolean

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements Class CreateMeasureFunction

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
      |
      +- com.psychofree.statements.PDL_PMLStatement
          |
          +- com.psychofree.statements.StatementWithCode
              |
              +- com.psychofree.statements.CreateMeasureFunction
  
```

All Implemented Interfaces:

java.io.Serializable

public class **CreateMeasureFunction**
extends [StatementWithCode](#)

This class wraps a CREATE MEASURE FUNCTION statement of PDL

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	CreateMeasureFunction (java.sql.Connection conn) Creates a new instance of CreateMiningFunction
--------	--

Method Summary

java.lang.String	getCode ()
java.lang.String	getDataSourceName ()
java.lang.String	getFunctionName ()
java.util.ArrayList	getMeasureReturn ()
java.util.ArrayList	getParamFields ()
java.lang.String	getPatternName ()
java.lang.String	getPatternTypeName ()
java.lang.String	interpretStatement () A measure function is translated in a stored function of PL/pgSQL with exactly the behaviour defined in the body and that returns a measure object
void	parseStatement (java.io.StreamTokenizer st) Parse the PDL command CREATE MEASURE FUNCTION

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

CreateMeasureFunction

```
public CreateMeasureFunction(java.sql.Connection conn)
```

Creates a new instance of CreateMiningFunction

Methods

getFunctionName

```
public java.lang.String getFunctionName()
```

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

getPatternName

```
public java.lang.String getPatternName()
```

getDataSourceName

```
public java.lang.String getDataSourceName()
```

getParamFields

```
public java.util.ArrayList getParamFields()
```

getCode

```
public java.lang.String getCode()
```

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getMeasureReturn

```
public java.util.ArrayList getMeasureReturn()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PDL command CREATE MEASURE FUNCTION

Parameters:

st - the StreamTokenizer containing the PDL command

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

A measure function is translated in a stored function of PL/pgSQL with exactly the behaviour defined in the body and that returns a measure object

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class CreatePatternType

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
     |
     +- com.psychofree.statements.PDL_PMLStatement
        |
        +- com.psychofree.statements.StatementWithCode
           |
           +- com.psychofree.statements.CreatePatternType
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class CreatePatternType
extends StatementWithCode
  
```

This class wraps a CREATE PATTERN TYPE statement of PDL

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	CreatePatternType (java.sql.Connection conn) Creates a new instance of CreatePatternType
public	CreatePatternType (java.sql.Connection conn, java.lang.String patternName)

Method Summary

java.lang.String	getEqualsCode ()
java.util.List	getEqualsFields ()
java.lang.String	getEqualsParameter ()
java.lang.String	getFormulaCode ()
java.util.List	getFormulaFields ()
java.lang.String	getFormulaName ()
java.lang.String	getFormulaParam ()
java.util.List	getMeasureFields ()
java.lang.String	getName ()

java.lang.String	getReturnName() Getter & Setter
java.util.List	getStructureFields()
java.lang.String	getThetaCode()
java.util.List	getThetaFields()
java.lang.String	getThetaParameter()
boolean	hasCode()
java.lang.String	interpretStatement() The creation of a new pattern type is translated into several SQL instructions, that are the creation of the types (also those corresponding to the structure and the measure), the declaration of the Equals and Theta functions and the creation of the table of that pattern type
void	parseStatement(java.io.StreamTokenizer st) Parse the PDL command CREATE PATTERN TYPE
void	setEqualsCode(java.lang.String EqualsCode)
void	setEqualsFields(java.util.List EqualsFields)
void	setEqualsParameter(java.lang.String EqualsParameter)
void	setFormulaCode(java.lang.String FormulaCode)
void	setFormulaFields(java.util.List FormulaFields)
void	setFormulaName(java.lang.String FormulaName)
void	setFormulaParam(java.lang.String FormulaParam)
void	setHasCode(boolean hasFormulaCode)
void	setMeasureFields(java.util.List MeasureFields)
void	setName(java.lang.String Name)
void	setReturnName(java.lang.String ReturnName)
void	setStructureFields(java.util.List StructureFields)
void	setThetaCode(java.lang.String ThetaCode)
void	setThetaFields(java.util.List ThetaFields)

void	setThetaParameter (java.lang.String ThetaParameter)
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Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

CreatePatternType

```
public CreatePatternType(java.sql.Connection conn)
```

Creates a new instance of CreatePatternType

CreatePatternType

```
public CreatePatternType(java.sql.Connection conn,
    java.lang.String patternName)
```

Methods

getReturnName

```
public java.lang.String getReturnName()
```

Getter & Setter

setReturnName

```
public void setReturnName(java.lang.String ReturnName)
```

getName

```
public java.lang.String getName()
```

setName

```
public void setName(java.lang.String Name)
```

getStructureFields

```
public java.util.List getStructureFields()
```

setStructureFields

```
public void setStructureFields(java.util.List StructureFields)
```

getMeasureFields

```
public java.util.List getMeasureFields()
```

setMeasureFields

```
public void setMeasureFields(java.util.List MeasureFields)
```

getFormulaFields

```
public java.util.List getFormulaFields()
```

setFormulaFields

```
public void setFormulaFields(java.util.List FormulaFields)
```

getEqualsFields

```
public java.util.List getEqualsFields()
```

setEqualsFields

```
public void setEqualsFields(java.util.List EqualsFields)
```

getEqualsCode

```
public java.lang.String getEqualsCode()
```

setEqualsCode

```
public void setEqualsCode(java.lang.String EqualsCode)
```

(continued from last page)

getThetaFields

```
public java.util.List getThetaFields()
```

setThetaFields

```
public void setThetaFields(java.util.List ThetaFields)
```

getThetaCode

```
public java.lang.String getThetaCode()
```

setThetaCode

```
public void setThetaCode(java.lang.String ThetaCode)
```

getFormulaCode

```
public java.lang.String getFormulaCode()
```

setFormulaCode

```
public void setFormulaCode(java.lang.String FormulaCode)
```

setThetaParameter

```
public void setThetaParameter(java.lang.String ThetaParameter)
```

setEqualsParameter

```
public void setEqualsParameter(java.lang.String EqualsParameter)
```

getThetaParameter

```
public java.lang.String getThetaParameter()
```

(continued from last page)

getEqualsParameter

```
public java.lang.String getEqualsParameter()
```

getFormulaName

```
public java.lang.String getFormulaName()
```

setFormulaName

```
public void setFormulaName(java.lang.String FormulaName)
```

hasCode

```
public boolean hasCode()
```

setHasCode

```
public void setHasCode(boolean hasFormulaCode)
```

getFormulaParam

```
public java.lang.String getFormulaParam()
```

setFormulaParam

```
public void setFormulaParam(java.lang.String FormulaParam)
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PDL command CREATE PATTERN TYPE

Parameters:

st - the StreamTokenizer containing the PDL command

Throws:

[ParseError](#) - if there is any syntax error in the command

(continued from last page)

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

The creation of a new pattern type is translated into several SQL instructions, that are the creation of the types (also those corresponding to the structure and the measure), the declaration of the Equals and Theta functions and the creation of the table of that pattern type

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class DataCovering

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
      |
      +- com.psychofree.statements.PQLStatement
          |
          +- com.psychofree.statements.DataCovering
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class DataCovering
extends PQLStatement
  
```

This class wraps a DATA COVERING statement of PQL

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	DataCovering (java.sql.Connection conn) Creates a new instance of DataCovering
--------	---

Method Summary

java.lang.String	getClassName ()
java.lang.String	getCondition ()
java.util.Vector	getCondParams ()
java.lang.String	getDatasource ()
Select	getInnerSelect ()
java.lang.String	getStoreAs ()
java.sql.ResultSet	interpretStatement () Translates the PQL command in a call to a PL/pgSQL proedure that performs the query
boolean	isSelect ()
void	parseStatement (java.io.StreamTokenizer st) Parse the PQL command DATA COVERING

Methods inherited from class [com.psychofree.statements.PQLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

DataCovering

```
public DataCovering(java.sql.Connection conn)
```

Creates a new instance of DataCovering

Methods

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)
    throws ParseError
```

Parse the PQL command DATA COVERING

Parameters:

`st` - the StreamTokenizer containing the PQL command

Throws:

[ParseError](#) - if there is any syntax error in the command

getClassName

```
public java.lang.String getClassName()
```

getCondition

```
public java.lang.String getCondition()
```

getDatasource

```
public java.lang.String getDatasource()
```

getStoreAs

```
public java.lang.String getStoreAs()
```

isSelect

```
public boolean isSelect()
```

getInnerSelect

```
public Select getInnerSelect()
```

getCondParams

```
public java.util.Vector getCondParams()
```

interpretStatement

```
public java.sql.ResultSet interpretStatement()  
throws StatementExecutionException
```

Translates the PQL command in a call to a PL/pgSQL procedure that performs the query

Returns:

The result of the query

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements Class DeleteFromClass

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
     |
     +- com.psychofree.statements.PDL_PMLStatement
        |
        +- com.psychofree.statements.DeleteFromClass
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class DeleteFromClass
extends PDL_PMLStatement
  
```

This class wraps a DELETE FROM CLASS statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	DeleteFromClass (java.sql.Connection conn) Creates a new instance of CreateClass
public	DeleteFromClass (java.lang.String ClassName, java.lang.String Condition)

Method Summary

java.lang.String	getAlias ()
java.lang.String	getClassName ()
java.lang.String	getCondition ()
java.lang.String	interpretStatement () Translates the PML command in a call to the PL/pgSQL procedure ClassDelete that performs the deletion
void	parseStatement (java.io.StreamTokenizer st) Parse the PDL command DELETE FROM CLASS

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class [java.lang.Object](#)

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

DeleteFromClass

```
public DeleteFromClass(java.sql.Connection conn)
```

Creates a new instance of CreateClass

DeleteFromClass

```
public DeleteFromClass(java.lang.String className,  
                      java.lang.String condition)
```

Methods

getClassName

```
public java.lang.String getClassName()
```

getCondition

```
public java.lang.String getCondition()
```

getAlias

```
public java.lang.String getAlias()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws WrongKeywordException
```

Parse the PDL command DELETE FROM CLASS

Parameters:

st - the StreamTokenizer containing the PML command

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

(continued from last page)

Translates the PML command in a call to the PL/pgSQL procedure `ClassDelete` that performs the deletion

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class DeletePatterns

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
      |
      +- com.psychofree.statements.PDL_PMLStatement
          |
          +- com.psychofree.statements.DeletePatterns
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class DeletePatterns
extends PDL_PMLStatement
  
```

This class wraps a DELETE PATTERNS statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	DeletePatterns (java.sql.Connection conn) Creates a new instance of NewClass
--------	---

Method Summary

java.lang.String	getAlias ()
java.lang.String	getCondition ()
java.lang.String	getPatternTypeName ()
java.lang.String	interpretStatement () Translates the PML command in a call to the PL/pgSQL function Deletion that performs the deletion
void	parseStatement (java.io.StreamTokenizer st) Parse the PDL command DELETE PATTERNS

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

DeletePatterns

```
public DeletePatterns(java.sql.Connection conn)
```

Creates a new instance of NewClass

Methods

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

getCondition

```
public java.lang.String getCondition()
```

getAlias

```
public java.lang.String getAlias()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws WrongKeywordException
```

Parse the PDL command DELETE PATTERNS

Parameters:

st - the StreamTokenizer containing the PML command

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

Translates the PML command in a call to the PL/pgSQL function Deletion that performs the deletion

Returns:

A message containing the outcome of the execution

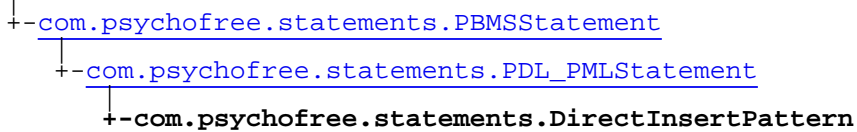
Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class DirectInsertPattern

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **DirectInsertPattern**
 extends [PDL_PMLStatement](#)

This class wraps a DIRECT INSERT PATTERNS statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	DirectInsertPattern (java.sql.Connection conn)
--------	--

Method Summary

java.lang.String	getDataSourceName ()
------------------	--------------------------------------

java.lang.String	getIntoClass ()
------------------	---------------------------------

java.lang.String	getPatternTypeName ()
------------------	---------------------------------------

java.lang.String	getStructureValue ()
------------------	--------------------------------------

java.lang.String	getThresoldDefinition ()
------------------	--

java.lang.String	getTsFinal ()
------------------	-------------------------------

java.lang.String	getTsInit ()
------------------	------------------------------

java.lang.String	interpretStatement ()
------------------	---------------------------------------

Translates the PML command in a call to the PL/pgSQL function Insertion that performs the insertion

void	parseStatement (java.io.StreamTokenizer st)
------	---

Parse the PML command DIRECT INSERT PATTERN

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

DirectInsertPattern

```
public DirectInsertPattern(java.sql.Connection conn)
```

Methods

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

getDataSourceName

```
public java.lang.String getDataSourceName()
```

getTsInit

```
public java.lang.String getTsInit()
```

getTsFinal

```
public java.lang.String getTsFinal()
```

getThresoldDefinition

```
public java.lang.String getThresoldDefinition()
```

getStructureValue

```
public java.lang.String getStructureValue()
```

getIntoClass

```
public java.lang.String getIntoClass()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PML command DIRECT INSERT PATTERN

Parameters:

st - the StreamTokenizer containing the PML command

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

Translates the PML command in a call to the PL/pgSQL function Insertion that performs the insertion

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements Class DrillThrough

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
      |
      +- com.psychofree.statements.PQLStatement
          |
          +- com.psychofree.statements.DrillThrough
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class DrillThrough
extends PQLStatement
  
```

This class wraps a DRILL THROUGH statement of PQL

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	DrillThrough (java.sql.Connection conn) Creates a new instance of DrillThrough
--------	---

Method Summary

java.lang.String	getClassName ()
------------------	---------------------------------

java.lang.String	getCondition ()
------------------	---------------------------------

java.util.Vector	getCondParams ()
------------------	----------------------------------

Select	getInnerSelect ()
------------------------	-----------------------------------

java.lang.String	getTableName ()
------------------	---------------------------------

java.sql.ResultSet	interpretStatement () Translates the PQL command in a call to a PL/pgSQL procedure that performs the query
--------------------	---

boolean	isSelect ()
---------	-----------------------------

void	parseStatement (java.io.StreamTokenizer st) Parse the PQL command DRILL THROUGH
------	--

Methods inherited from class [com.psychofree.statements.PQLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

DrillThrough

```
public DrillThrough(java.sql.Connection conn)
```

Creates a new instance of DrillThrough

Methods

getCondition

```
public java.lang.String getCondition()
```

getTableName

```
public java.lang.String getTableName()
```

getClassName

```
public java.lang.String getClassName()
```

getInnerSelect

```
public Select getInnerSelect()
```

isSelect

```
public boolean isSelect()
```

getCondParams

```
public java.util.Vector getCondParams()
```

(continued from last page)

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)
    throws ParseError
```

Parse the PQL command DRILL THROUGH

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.sql.ResultSet interpretStatement()
    throws StatementExecutionException
```

Translates the PQL command in a call to a PL/pgSQL procedure that performs the query

Returns:

The result of the query

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class DropClass

```

java.lang.Object
  +- com.psychofree.statements.PBMSStatement
    +- com.psychofree.statements.PDL_PMLStatement
      +- com.psychofree.statements.DropClass
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class DropClass
extends PDL_PMLStatement
  
```

This class wraps a DROP CLASS statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	DropClass (java.sql.Connection conn) Creates a new instance of DropClass
--------	---

Method Summary

java.lang.String	getName ()
------------------	----------------------------

java.lang.String	interpretStatement () Translates the PML statement in a call in a call to the PL/pgSQL stored function DeleteClass that performs the deletion
------------------	--

void	parseStatement (java.io.StreamTokenizer st) Parse the PDL command DROP CLASS
------	---

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

(continued from last page)

DropClass

```
public DropClass(java.sql.Connection conn)
```

Creates a new instance of DropClass

Methods

getName

```
public java.lang.String getName()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)
```

Parse the PDL command DROP CLASS

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
throws StatementExecutionException
```

Translates the PML statement in a call in a call to the PL/pgSQL stored function DeleteClass that performs the deletion

Returns:

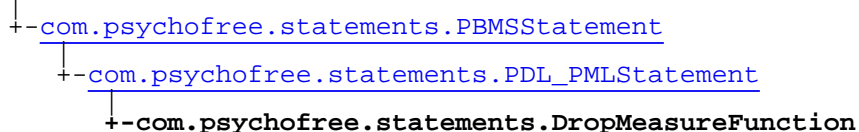
A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements Class DropMeasureFunction

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **DropMeasureFunction**

extends [PDL_PMLStatement](#)

This class wraps a DROP MEASURE FUNCTION statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	DropMeasureFunction (java.sql.Connection conn) Creates a new instance of DropMiningFunction
--------	--

Method Summary

java.lang.String	getName ()
java.lang.String	interpretStatement () Deletes the stored function which implements the measure function then updates the system catalogue PBMSMeasureFunctions deleting the relative entry
void	parseStatement (java.io.StreamTokenizer st) Parse the PML command DROP MEASURE FUNCTION

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

(continued from last page)

DropMeasureFunction

```
public DropMeasureFunction(java.sql.Connection conn)
```

Creates a new instance of DropMiningFunction

Methods

getName

```
public java.lang.String getName()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)
    throws WrongKeywordException
```

Parse the PML command DROP MEASURE FUNCTION

Throws:

[WrongKeywordException](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()
    throws StatementExecutionException
```

Deletes the stored function which implements the measure function then updates the system catalogue PBMSMeasureFunctions deleting the relative entry

Returns:

A message containing the outcome of the execution

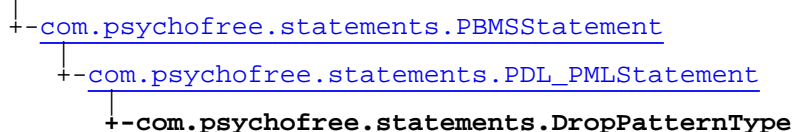
Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class DropPatternType

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **DropPatternType**

extends [PDL_PMLStatement](#)

This class wraps a DROP PATTERN TYPE statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	DropPatternType (java.sql.Connection conn) Creates a new instance of CreatePatternType
--------	---

Method Summary

java.lang.String	getName () Getter & Setter
------------------	---

java.lang.String	interpretStatement () The deletion of a pattern type is translated in the deletion of the three base types defined and the typed classes created
------------------	---

void	parseStatement (java.io.StreamTokenizer st) Parse the PML command DROP PATTERN TYPE
------	--

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

(continued from last page)

DropPatternType

```
public DropPatternType(java.sql.Connection conn)
```

Creates a new instance of CreatePatternType

Methods

getName

```
public java.lang.String getName()
```

Getter & Setter

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)
    throws WrongKeywordException
```

Parse the PML command DROP PATTERN TYPE

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()
    throws StatementExecutionException
```

The deletion of a pattern type is translated in the deletion of the three base types defined and the typed classes created

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements Class EmptyBin

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
     |
     +- com.psychofree.statements.PDL_PMLStatement
        |
        +- com.psychofree.statements.EmptyBin
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class EmptyBin
extends PDL\_PMLStatement
  
```

This particular statement is to be used when user wants to purge his tablespace from bin tables It's not used in PSYCHOfree

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	EmptyBin (java.sql.Connection conn, java.lang.String user)
--------	--

Method Summary

java.lang.String	interpretStatement ()
------------------	---------------------------------------

void	parseStatement (java.io.StreamTokenizer st)
------	---

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

EmptyBin

```

public EmptyBin(java.sql.Connection conn,
                java.lang.String user)
  
```

(continued from last page)

Methods

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)
    throws ParseError
```

This method parse a PBMSStatement from input

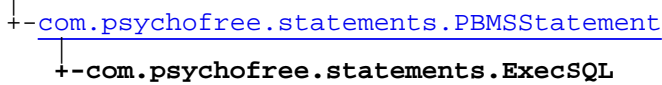
interpretStatement

```
public java.lang.String interpretStatement()
    throws StatementExecutionException
```


com.psychofree.statements

Class ExecSQL

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **ExecSQL**
 extends [PBMSStatement](#)

This class wraps an EXEC SQL statement, it executes pure SQL or PL/pgSQL code

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	ExecSQL (java.sql.Connection conn) Creates a new instance of ExecSQL
--------	---

Method Summary

java.lang.String	getSQLCode ()
int	getStatementType ()
java.lang.Object	interpretStatement () Execute the SQL or PL/pgSQL statement
void	parseStatement (java.io.StreamTokenizer st)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

ExecSQL

public **ExecSQL**(java.sql.Connection conn)

Creates a new instance of ExecSQL

Methods

getSQLCode

```
public java.lang.String getSQLCode()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

This method parse a PBMSStatement from input

interpretStatement

```
public java.lang.Object interpretStatement()  
    throws ExecSQLStatementException
```

Execute the SQL or PL/pgSQL statement

Returns:

An object containing the query result

Throws:

[ExecSQLStatementException](#) - if there was any error in the statement execution

getStatementType

```
public int getStatementType()
```

com.psychofree.statements Class ExecSQLStatementException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- com.psychofree.statements.StatementExecutionException
        |-- com.psychofree.statements.ExecSQLStatementException

```

All Implemented Interfaces:

java.io.Serializable

```

public class ExecSQLStatementException
extends StatementExecutionException

```

Exception throwable if an ExecSQL statements fails

Constructor Summary

public	ExecSQLStatementException ()
public	ExecSQLStatementException (java.lang.String msg)

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

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

Constructors

ExecSQLStatementException

```
public ExecSQLStatementException()
```

ExecSQLStatementException

```
public ExecSQLStatementException(java.lang.String msg)
```

com.psychofree.statements

Class ExtractPattern

```

java.lang.Object
├── com.psychofree.statements.PBMSStatement
│   ├── com.psychofree.statements.PDL_PMLStatement
│   └── com.psychofree.statements.ExtractPattern

```

All Implemented Interfaces:

java.io.Serializable

```

public class ExtractPattern
extends PDL\_PMLStatement

```

This class wraps an EXTRACT PATTERNS statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	ExtractPattern (java.sql.Connection conn) Creates a new instance of ExtractPatternType
--------	---

Method Summary

java.lang.String	getAlias ()
java.lang.String	getCondition ()
java.lang.String	getDataSourceName ()
java.lang.String	getExtParams ()
java.lang.String	getIntoClass ()
java.lang.String	getMeasureFunction ()
java.util.ArrayList	getMeasureValues ()
java.lang.String	getMiningFunctionName ()
java.lang.String	getPatternTypeName ()
java.lang.String	getThresoldDefinition ()
java.lang.String	getTsFinal ()

java.lang.String	getTsInit()
java.lang.String	interpretStatement() Extract the patterns using the mining function specified, then process the result using the PL/pgSQL stored procedure ProcessExtractedPatterns
void	parseStatement(java.io.StreamTokenizer st) Parse the PML command EXTRACT PATTERNS

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

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

Constructors

ExtractPattern

```
public ExtractPattern(java.sql.Connection conn)
```

Creates a new instance of ExtractPatternType

Methods

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

getDataSourceName

```
public java.lang.String getDataSourceName()
```

getMiningFunctionName

```
public java.lang.String getMiningFunctionName()
```

getCondition

```
public java.lang.String getCondition()
```

getTsInit

```
public java.lang.String getTsInit()
```

getTsFinal

```
public java.lang.String getTsFinal()
```

getThresoldDefinition

```
public java.lang.String getThresoldDefinition()
```

getMeasureValues

```
public java.util.ArrayList getMeasureValues()
```

getMeasureFunction

```
public java.lang.String getMeasureFunction()
```

getIntoClass

```
public java.lang.String getIntoClass()
```

getExtParams

```
public java.lang.String getExtParams()
```

getAlias

```
public java.lang.String getAlias()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PML command EXTRACT PATTERNS

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

Extract the patterns using the mining function specified, then process the result using the PL/pgSQL stored procedure ProcessExtractedPatterns

Returns:

A message containing the outcome of the execution

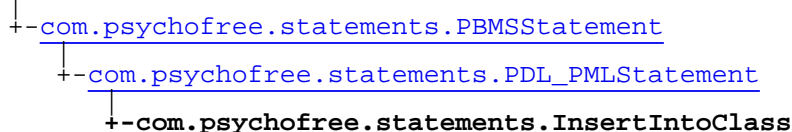
Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class InsertIntoClass

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **InsertIntoClass**
 extends [PDL_PMLStatement](#)

This class wraps an INSERT INTO CLASS statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	InsertIntoClass (java.sql.Connection conn) Creates a new instance of CreateClass
public	InsertIntoClass (java.lang.String ClassName, java.lang.String Condition)

Method Summary

java.lang.String	getAlias ()
java.lang.String	getClassName ()
java.lang.String	getCondition ()
java.lang.String	interpretStatement () Translates the PML command into a call to the PL/pgSQL procedure ClassInsert which performs the insertion
void	parseStatement (java.io.StreamTokenizer st) Parse the PML command INSERT INTO CLASS

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

InsertIntoClass

```
public InsertIntoClass(java.sql.Connection conn)
```

Creates a new instance of CreateClass

InsertIntoClass

```
public InsertIntoClass(java.lang.String ClassName,  
                        java.lang.String Condition)
```

Methods

getClassName

```
public java.lang.String getClassName()
```

getCondition

```
public java.lang.String getCondition()
```

getAlias

```
public java.lang.String getAlias()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws WrongKeywordException
```

Parse the PML command INSERT INTO CLASS

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

Translates the PML command into a call to the PL/pgSQL procedure ClassInsert which performs the insertion

Returns:

(continued from last page)

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class NoStatementRecognizedException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- com.psychofree.statements.ParseError
        |-- com.psychofree.statements.NoStatementRecognizedException
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class NoStatementRecognizedException
extends ParseError
  
```

Exception to be risen when a statement isn't recognized

Constructor Summary

public	NoStatementRecognizedException (java.lang.String cmd)
--------	---

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

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

Constructors

NoStatementRecognizedException

```

public NoStatementRecognizedException(java.lang.String cmd)
  
```

com.psychofree.statements

Class ParseError

```

java.lang.Object
  |
  +- java.lang.Throwable
      |
      +- java.lang.Exception
          |
          +- com.psychofree.statements.ParseError
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[NoStatementRecognizedException](#), [UnexpectedKeywordException](#), [WrongKeywordException](#)

```

public class ParseError
extends java.lang.Exception
  
```

General Exception throwable while parsing statements

Constructor Summary

public	ParseError (java.lang.String msg)
--------	---

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

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

Constructors

ParseError

```

public ParseError(java.lang.String msg)
  
```

com.psychofree.statements

Class ParserUtilities

java.lang.Object

└-com.psychofree.statements.ParserUtilities

public class **ParserUtilities**
 extends java.lang.Object

Contains static utilities methods used for parsing input streams

Constructor Summary

public	ParserUtilities()
--------	-----------------------------------

Method Summary

static void	consumeToken (java.io.StreamTokenizer st, java.lang.String token) Consumes a given token of the input stream.
static void	consumeToken (java.io.StreamTokenizer st, java.lang.String[] token) Consumes tokens of the input stream
static java.lang.String	nextStringToken (java.io.StreamTokenizer st) Retrieve the next string token in the stream
static java.lang.String	nextToken (java.io.StreamTokenizer st) Retrieve the next token in the stream
static TypedField	parseFieldDeclaration (java.io.StreamTokenizer st, java.lang.String delim) Parse a field declaration part of a command from the input stream starting with a given keyword
static TypedField	parseFieldDeclaration (java.io.StreamTokenizer st, java.lang.String[] delim) Parse a field declaration part of a command from the input stream bounded by the given keywords.
static java.lang.String	parseWhere (java.io.StreamTokenizer st, java.lang.String[] delim, java.lang.String alias, java.lang.String patternTypeName) Parse a where clause declaration of a command from the input stream

Methods inherited from class java.lang.Object

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

Constructors

ParserUtilities

public **ParserUtilities**()

(continued from last page)

Methods

nextStringToken

```
public static java.lang.String nextStringToken(java.io.StreamTokenizer st)
```

Retrieve the next string token in the stream

Parameters:

st - The stream to parse

Returns:

The next token

nextToken

```
public static java.lang.String nextToken(java.io.StreamTokenizer st)
```

Retrieve the next token in the stream

Parameters:

st - The stream to parse.

Returns:

The next token

consumeToken

```
public static void consumeToken(java.io.StreamTokenizer st,  
    java.lang.String token)  
throws UnexpectedKeywordException
```

Consumes a given token of the input stream.

Parameters:

st - The stream to parse.

token - The starting keyword

Throws:

[UnexpectedKeywordException](#) - If the current token in the stream is different from the given keyword

parseFieldDeclaration

```
public static TypedField parseFieldDeclaration(java.io.StreamTokenizer st,  
    java.lang.String[] delim)
```

Parse a field declaration part of a command from the input stream bounded by the given keywords.

Parameters:

st - The stream to parse

delim - Array of string keywords

Returns:

The parsed field

(continued from last page)

parseFieldDeclaration

```
public static TypedField parseFieldDeclaration(java.io.StreamTokenizer st,  
        java.lang.String delim)
```

Parse a field declaration part of a command from the input stream starting with a given keyword

Parameters:

st - The stream to parse
delim - The starting keyword

Returns:

The parsed field

parseWhere

```
public static java.lang.String parseWhere(java.io.StreamTokenizer st,  
        java.lang.String[] delim,  
        java.lang.String alias,  
        java.lang.String patternTypeName)
```

Parse a where clause declaration of a command from the input stream

Parameters:

st - The stream to parse
delim - The string keywords
alias - The alias used in the where statement
patternTypeName - The pattern type involved in the statement

Returns:

The parsed where statement

consumeToken

```
public static void consumeToken(java.io.StreamTokenizer st,  
        java.lang.String[] token)  
throws UnexpectedKeywordException
```

Consumes tokens of the input stream

Parameters:

st - The stream to parse
token - Array containing the keywords to consume

Throws:

[UnexpectedKeywordException](#) - If the current token in the stream is different from the given keywords

com.psychofree.statements Class PatternCovering

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
     |
     +- com.psychofree.statements.PQLStatement
        |
        +- com.psychofree.statements.PatternCovering
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class PatternCovering
extends PQLStatement
  
```

This class wraps a PATTERN COVERING statement of PQL

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	PatternCovering (java.sql.Connection conn)
--------	--

Method Summary

java.lang.String	getClassName ()
------------------	---------------------------------

java.lang.String	getCondition ()
------------------	---------------------------------

java.util.Vector	getCondParams ()
------------------	----------------------------------

java.lang.String	getDatasource ()
------------------	----------------------------------

Select	getInnerSelect ()
------------------------	-----------------------------------

java.lang.String	getStoreAs ()
------------------	-------------------------------

java.sql.ResultSet	interpretStatement ()
--------------------	---------------------------------------

Translates the PQL command in a call to a PL/pgSQL procedure that performs the query

boolean	isSelect ()
---------	-----------------------------

void	parseStatement (java.io.StreamTokenizer st)
------	---

Parse the PQL command PATTERN COVERING

Methods inherited from class [com.psychofree.statements.PQLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

PatternCovering

```
public PatternCovering(java.sql.Connection conn)
```

Methods

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PQL command PATTERN COVERING

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.sql.ResultSet interpretStatement()  
    throws StatementExecutionException
```

Translates the PQL command in a call to a PL/pgSQL procedure that performs the query

Returns:

The result of the query

Throws:

[StatementExecutionException](#) - if something goes wrong

getClassName

```
public java.lang.String getClassName()
```

getCondition

```
public java.lang.String getCondition()
```

(continued from last page)

getDatasource

```
public java.lang.String getDatasource()
```

getStoreAs

```
public java.lang.String getStoreAs()
```

isSelect

```
public boolean isSelect()
```

getInnerSelect

```
public Select getInnerSelect()
```

getCondParams

```
public java.util.Vector getCondParams()
```

com.psychofree.statements

Class PBMSStatement

java.lang.Object

└─com.psychofree.statements.PBMSStatement

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[ExecSQL](#), [PDL_PMLStatement](#), [PQLStatement](#), [WrongStatement](#)

public abstract class **PBMSStatement**

extends java.lang.Object

implements java.io.Serializable

The superclass of all PSYCHOfree statements

Field Summary

public static	OTHER_STATEMENT
public static	PDL_OR_PML_STATEMENT
public static	QUERY_STATEMENT

Constructor Summary

public	PBMSStatement ()
public	PBMSStatement (java.sql.Connection conn)

Method Summary

abstract int	getStatementType ()
abstract java.lang.Object	interpretStatement ()
abstract void	parseStatement (java.io.StreamTokenizer st) This method parse a PBMSStatement from input

Methods inherited from class java.lang.Object

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

Fields

(continued from last page)

PDL_OR_PML_STATEMENT

```
public static int PDL_OR_PML_STATEMENT
```

QUERY_STATEMENT

```
public static int QUERY_STATEMENT
```

OTHER_STATEMENT

```
public static int OTHER_STATEMENT
```

Constructors

PBMSStatement

```
public PBMSStatement()
```

PBMSStatement

```
public PBMSStatement(java.sql.Connection conn)
```

Methods

parseStatement

```
public abstract void parseStatement(java.io.StreamTokenizer st)
    throws ParseError
```

This method parse a PBMSStatement from input

Parameters:

st - The StreamTokenizer Object used to get tokens from input stream

Throws:

[ParseError](#) - If this statement's syntax is not correct

interpretStatement

```
public abstract java.lang.Object interpretStatement()
    throws StatementExecutionException
```

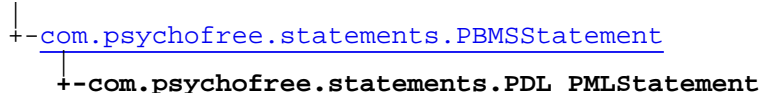
getStatementType

```
public abstract int getStatementType()
```

(continued from last page)

com.psychofree.statements Class PDL_PMLStatement

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[CreateClass](#), [DeleteFromClass](#), [DeletePatterns](#), [DirectInsertPattern](#), [DropClass](#), [DropMeasureFunction](#), [DropPatternType](#), [EmptyBin](#), [ExtractPattern](#), [InsertIntoClass](#), [RecomputePattern](#), [StatementWithCode](#), [Update](#), [UpdatePattern](#)

public abstract class **PDL_PMLStatement**

extends [PBMSStatement](#)

General superclass for all PDL and PML statement whose execution will return a message (generally success or failure)

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	PDL_PMLStatement()
public	PDL_PMLStatement (java.sql.Connection conn)

Method Summary

int	getStatementType()
abstract java.lang.String	interpretStatement()

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

PDL_PMLStatement

public **PDL_PMLStatement**()

(continued from last page)

PDL_PMLStatement

```
public PDL_PMLStatement(java.sql.Connection conn)
```

Methods

interpretStatement

```
public abstract java.lang.String interpretStatement()  
    throws StatementExecutionException
```

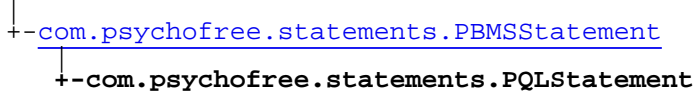
getStatementType

```
public int getStatementType()
```

com.psychofree.statements

Class PQLStatement

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[DataCovering](#), [DrillThrough](#), [PatternCovering](#), [Select](#), [Show](#)

```
public abstract class PQLStatement
extends PBMSStatement
```

General superclass for all querying statement whose execution will return a ResultSet object

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	PQLStatement ()
public	PQLStatement (java.sql.Connection conn)

Method Summary

int	getStatementType ()
abstract java.sql.ResultSet	interpretStatement ()

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

PQLStatement

```
public PQLStatement()
```

PQLStatement

```
public PQLStatement(java.sql.Connection conn)
```

Methods

getStatementType

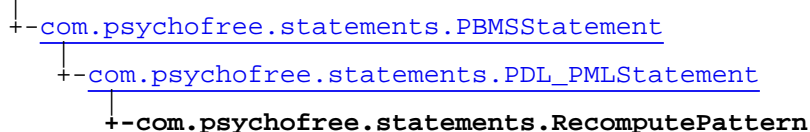
```
public int getStatementType()
```

interpretStatement

```
public abstract java.sql.ResultSet interpretStatement()  
    throws StatementExecutionException
```

com.psychofree.statements Class **RecomputePattern**

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **RecomputePattern**

extends [PDL_PMLStatement](#)

This class wraps a RECOMPUTE PATTERNS statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	RecomputePattern (java.sql.Connection conn) Creates a new instance of ExtractPatternType
--------	---

Method Summary

java.lang.String	getAlias ()
java.lang.String	getCondition ()
java.lang.String	getDataSourceName ()
java.lang.String	getIntoClass ()
java.lang.String	getMeasureFunctionName ()
java.lang.String	getPatternTypeName ()
java.lang.String	getTsFinal ()
java.lang.String	getTsInit ()
java.lang.String	interpretStatement () Translates the command in a call to the PL/pgSQL stored procedure Recomputation that performs the operation
void	parseStatement (java.io.StreamTokenizer st) Parse the PML command RECOMPUTE PATTERNS

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)[getStatementType](#), [interpretStatement](#)**Methods inherited from class** [com.psychofree.statements.PBMSStatement](#)[getStatementType](#), [interpretStatement](#), [parseStatement](#)**Methods inherited from class** [java.lang.Object](#)[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

RecomputePattern

```
public RecomputePattern(java.sql.Connection conn)
```

Creates a new instance of ExtractPatternType

Methods

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

getDataSourceName

```
public java.lang.String getDataSourceName()
```

getCondition

```
public java.lang.String getCondition()
```

getTsInit

```
public java.lang.String getTsInit()
```

getTsFinal

```
public java.lang.String getTsFinal()
```

getAlias

```
public java.lang.String getAlias()
```

(continued from last page)

getMeasureFunctionName

```
public java.lang.String getMeasureFunctionName()
```

getIntoClass

```
public java.lang.String getIntoClass()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PML command RECOMPUTE PATTERNS

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

Translates the command in a call to the PL/pgSQL stored procedure Recomputation that performs the operation

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements Class Select

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
      |
      +- com.psychofree.statements.PQLStatement
          |
          +- com.psychofree.statements.Select
  
```

All Implemented Interfaces:

java.io.Serializable

public class **Select**
extends [PQLStatement](#)

This class wraps a SELECT statement of PQL

Field Summary	
public static final	CJOIN Value: 3
public static final	INTERSECT Value: 2
public static final	NATURAL Value: 0
public static final	UNION Value: 1

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary	
public	Select (java.sql.Connection conn) Creates a new instance of Select

Method Summary	
java.util.ArrayList	getClassLists ()
java.lang.String	getClassName ()
java.lang.String	getCompFuntionName ()
java.lang.String	getCondition ()

java.util.ArrayList	getFields()
java.lang.String	getFirstAlias()
java.lang.String	getJoinedAlias()
java.lang.String	getJoinedClass()
int	getJoinType()
boolean	getOpType()
java.lang.String	getTableName()
java.lang.String	getTypeName()
java.sql.ResultSet	interpretStatement() Translates the Selection in a call to a PL/pgSQL procedure that performs the query
boolean	isJoin()
void	parseStatement(java.io.StreamTokenizer st) Parse the PQL command SELECT

Methods inherited from class [com.psychofree.statements.PQLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

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

Fields

NATURAL

```
public static final int NATURAL
```

Constant value: 0

UNION

```
public static final int UNION
```

Constant value: 1

INTERSECT

```
public static final int INTERSECT
```

Constant value: 2

CJOIN

```
public static final int CJOIN
```

Constant value: 3

Constructors

Select

```
public Select(java.sql.Connection conn)
```

Creates a new instance of Select

Methods

getFields

```
public java.util.ArrayList getFields()
```

getClassLists

```
public java.util.ArrayList getClassLists()
```

getCondition

```
public java.lang.String getCondition()
```

getTableName

```
public java.lang.String getTableName()
```

getClassName

```
public java.lang.String getClassName()
```

getJoinedClass

```
public java.lang.String getJoinedClass()
```

(continued from last page)

isJoin

```
public boolean isJoin()
```

getTypeName

```
public java.lang.String getTypeName()
```

getJoinType

```
public int getJoinType()
```

getCompFuntionName

```
public java.lang.String getCompFuntionName()
```

getOpType

```
public boolean getOpType()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the PQL command SELECT

Throws:

[ParseError](#) - if there is any syntax error in the command

getJoinedAlias

```
public java.lang.String getJoinedAlias()
```

getFirstAlias

```
public java.lang.String getFirstAlias()
```

(continued from last page)

interpretStatement

```
public java.sql.ResultSet interpretStatement()  
    throws StatementExecutionException
```

Translates the Selection in a call to a PL/pgSQL procedure that performs the query

Returns:

The result of the query

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class Show

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
     |
     +- com.psychofree.statements.PQLStatement
        |
        +- com.psychofree.statements.Show
  
```

All Implemented Interfaces:

java.io.Serializable

public class **Show**
 extends [PQLStatement](#)

This class wraps a SHOW statement

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	Show (java.sql.Connection conn) Creates a new instance of Show
--------	---

Method Summary

java.sql.ResultSet	interpretStatement () Translates the SHOW statement into the correspondent SQL query
boolean	isIsClasses ()
boolean	isIsPatternTypes ()
void	parseStatement (java.io.StreamTokenizer st) Parse the SHOW command

Methods inherited from class [com.psychofree.statements.PQLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

(continued from last page)

Constructors

Show

```
public Show(java.sql.Connection conn)
```

Creates a new instance of Show

Methods

isIsClasses

```
public boolean isIsClasses()
```

isIsPatternTypes

```
public boolean isIsPatternTypes()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

Parse the SHOW command

Throws:

[ParseError](#) - if there is any syntax error in the command

interpretStatement

```
public java.sql.ResultSet interpretStatement()  
    throws StatementExecutionException
```

Translates the SHOW statement into the correspondent SQL query

Returns:

The resultset cointaining the query result

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class StatementExecutionException

```

java.lang.Object
  |
  +- java.lang.Throwable
    |
    +- java.lang.Exception
      |
      +- com.psychofree.statements.StatementExecutionException
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[ExecSQLStatementException](#)

```

public class StatementExecutionException
extends java.lang.Exception
  
```

General Exception throwable while interpreting a statement

Constructor Summary

public	StatementExecutionException()
public	StatementExecutionException(java.lang.String msg)

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

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

Constructors

StatementExecutionException

```
public StatementExecutionException()
```

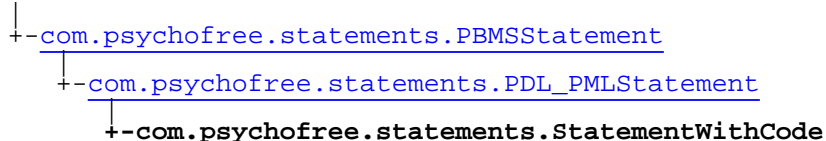
StatementExecutionException

```
public StatementExecutionException(java.lang.String msg)
```

com.psychofree.statements

Class StatementWithCode

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[CreateCompositionFunction](#), [CreateCondition](#), [CreateFormula](#), [CreateJoinCondition](#), [CreateMeasureFunction](#), [CreatePatternType](#)

public abstract class **StatementWithCode**
 extends [PDL_PMLStatement](#)

General superclass for all PDL and PML statements which contain code

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	StatementWithCode (java.sql.Connection conn)
--------	--

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

StatementWithCode

public **StatementWithCode**(java.sql.Connection conn)

com.psychofree.statements

Class UnexpectedKeywordException

```

java.lang.Object
  |
  +- java.lang.Throwable
      |
      +- java.lang.Exception
          |
          +- com.psychofree.statements.ParseError
              |
              +- com.psychofree.statements.UnexpectedKeywordException
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class UnexpectedKeywordException
extends ParseError
  
```

Exception to be risen when, while parsing a statement, an incorrect keyword is found

Constructor Summary

public	UnexpectedKeywordException (java.lang.String token)
--------	---

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

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

Constructors

UnexpectedKeywordException

```

public UnexpectedKeywordException(java.lang.String token)
  
```

com.psychofree.statements Class Update

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
     |
     +- com.psychofree.statements.PDL_PMLStatement
        |
        +- com.psychofree.statements.Update
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class Update
extends PDL_PMLStatement
  
```

This class wraps an UPDATE PATTERNS statement of PML

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	Update (java.sql.Connection conn)
--------	---

Method Summary

java.lang.String	getAlias ()
------------------	-----------------------------

java.lang.String	getPatternTypeName ()
------------------	---------------------------------------

java.lang.String	interpretStatement () Translates the PML command in a call to a PL/pgSQL procedure that performs the update
------------------	--

void	parseStatement (java.io.StreamTokenizer st)
------	---

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

(continued from last page)

Update

```
public Update(java.sql.Connection conn)
```

Methods

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

getAlias

```
public java.lang.String getAlias()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

This method parse a PBMSStatement from input

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

Translates the PML command in a call to a PL/pgSQL procedure that performs the update

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class UpdatePattern

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
      |
      +- com.psychofree.statements.PDL_PMLStatement
          |
          +- com.psychofree.statements.UpdatePattern
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[UpdatePatternWithMeasureFunction](#), [UpdateValidity](#)

public abstract class **UpdatePattern**
 extends [PDL_PMLStatement](#)

Updating patterns may follow three distinct ways: SYNCHRONIZE patterns, VALIDATE patterns, SET patterns VALIDITY; this is the superclass of these three different statements. An object belonging this class is owned by Update statement which should instantiate it correctly reading what the user typed in input

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	UpdatePattern (java.sql.Connection conn, java.lang.String patternTypeName, java.lang.String alias)
--------	--

Method Summary

java.lang.String	getAlias ()
------------------	-----------------------------

java.lang.String	getCondition ()
------------------	---------------------------------

java.lang.String	getPatternTypeName ()
------------------	---------------------------------------

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

UpdatePattern

```
public UpdatePattern(java.sql.Connection conn,  
                    java.lang.String patternTypeName,  
                    java.lang.String alias)
```

Methods

getPatternTypeName

```
public java.lang.String getPatternTypeName()
```

getAlias

```
public java.lang.String getAlias()
```

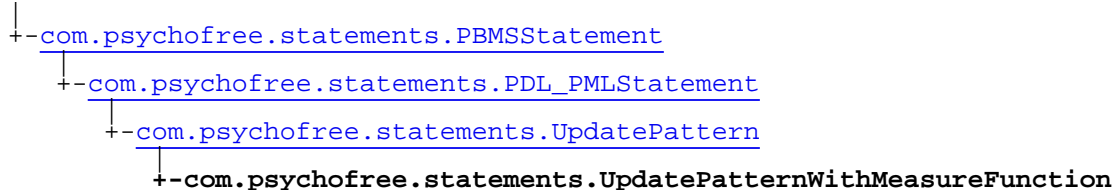
getCondition

```
public java.lang.String getCondition()
```

com.psychofree.statements

Class UpdatePatternWithMeasureFunction

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[UpdateSynchronize](#), [UpdateValidate](#)

public abstract class **UpdatePatternWithMeasureFunction**

extends [UpdatePattern](#)

This is the superclass of UpdateValidate and UpdateValidity as they both refers to a measure function which is commonly handled here

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	UpdatePatternWithMeasureFunction (java.sql.Connection conn, java.lang.String patternTypeName, java.lang.String alias)
--------	---

Method Summary

java.lang.String	getFunctionName ()
------------------	------------------------------------

Methods inherited from class [com.psychofree.statements.UpdatePattern](#)

[getAlias](#), [getCondition](#), [getPatternTypeName](#)

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

UpdatePatternWithMeasureFunction

```
public UpdatePatternWithMeasureFunction(java.sql.Connection conn,  
                                       java.lang.String patternTypeName,  
                                       java.lang.String alias)
```

Methods

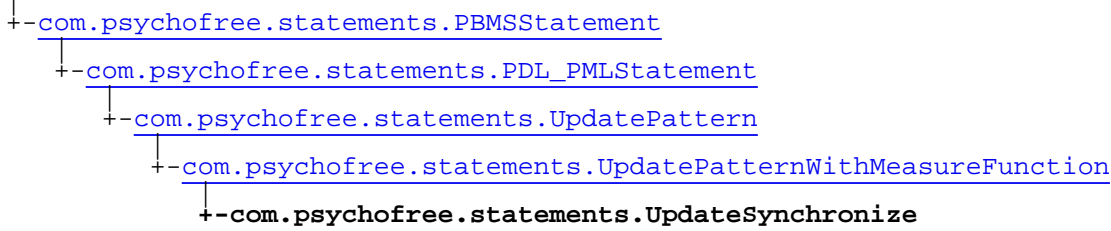
getFunctionName

```
public java.lang.String getFunctionName()
```

com.psychofree.statements

Class UpdateSynchronize

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

```

public class UpdateSynchronize
extends UpdatePatternWithMeasureFunction
  
```

This class wraps and Update statement dealing with synchronization of patterns

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	UpdateSynchronize (java.sql.Connection conn, java.lang.String patternTypeName, java.lang.String alias)
--------	--

Method Summary

java.lang.String	interpretStatement () Translates the PML statement in a call to the PL/pgSQL procedure Synchronize that performs patterns synchronization recomputing the measures with the specified measure function
void	parseStatement (java.io.StreamTokenizer st)

Methods inherited from class [com.psychofree.statements.UpdatePatternWithMeasureFunction](#)

[getFunctionName](#)

Methods inherited from class [com.psychofree.statements.UpdatePattern](#)

[getAlias](#), [getCondition](#), [getPatternTypeName](#)

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class `java.lang.Object``equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

UpdateSynchronize

```
public UpdateSynchronize(java.sql.Connection conn,  
                          java.lang.String patternTypeName,  
                          java.lang.String alias)
```

Methods

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

This method parse a PBMSStatement from input

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

Translates the PML statement in a call to the PL/pgSQL procedure Synchronize that performs patterns synchronization recomputing the measures with the specified measure function

Returns:

A message containing the outcome of the execution

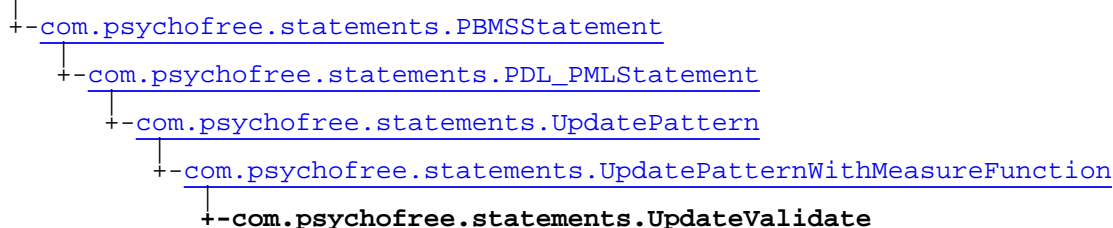
Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class UpdateValidate

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

```

public class UpdateValidate
extends UpdatePatternWithMeasureFunction
  
```

This class wraps and Update statement dealing with validation of patterns

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	UpdateValidate (java.sql.Connection conn, java.lang.String patternTypeName, java.lang.String alias)
--------	---

Method Summary

java.lang.String	getIntoClass ()
------------------	---------------------------------

java.lang.String	interpretStatement () Translates the PML statement in a call to the PL/pgSQL procedure Validate that performs patterns validation
------------------	--

void	parseStatement (java.io.StreamTokenizer st)
------	---

Methods inherited from class [com.psychofree.statements.UpdatePatternWithMeasureFunction](#)

[getFunctionName](#)

Methods inherited from class [com.psychofree.statements.UpdatePattern](#)

[getAlias](#), [getCondition](#), [getPatternTypeName](#)

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

UpdateValidate

```
public UpdateValidate(java.sql.Connection conn,  
                      java.lang.String patternTypeName,  
                      java.lang.String alias)
```

Methods

getIntoClass

```
public java.lang.String getIntoClass()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

This method parse a PBMSStatement from input

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

Translates the PML statement in a call to the PL/pgSQL procedure Validate that performs patterns validation

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class UpdateValidity

```

java.lang.Object
  |
  +- com.psychofree.statements.PBMSStatement
      |
      +- com.psychofree.statements.PDL_PMLStatement
          |
          +- com.psychofree.statements.UpdatePattern
              |
              +- com.psychofree.statements.UpdateValidity
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class UpdateValidity
extends UpdatePattern
  
```

This class wraps an Update statement dealing with pattern validity period

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	UpdateValidity (java.sql.Connection conn, java.lang.String patternTypeName, java.lang.String alias)
--------	---

Method Summary

java.lang.String	getTsFinal ()
------------------	-------------------------------

java.lang.String	getTsInit ()
------------------	------------------------------

java.lang.String	interpretStatement ()
------------------	---------------------------------------

Translates the PML statement in a SQL update statement that performs update of the validity period

void	parseStatement (java.io.StreamTokenizer st)
------	---

Methods inherited from class [com.psychofree.statements.UpdatePattern](#)

[getAlias](#), [getCondition](#), [getPatternTypeName](#)

Methods inherited from class [com.psychofree.statements.PDL_PMLStatement](#)

[getStatementType](#), [interpretStatement](#)

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class `java.lang.Object``equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

UpdateValidity

```
public UpdateValidity(java.sql.Connection conn,  
                      java.lang.String patternTypeName,  
                      java.lang.String alias)
```

Methods

getTsInit

```
public java.lang.String getTsInit()
```

getTsFinal

```
public java.lang.String getTsFinal()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

This method parse a PBMSStatement from input

interpretStatement

```
public java.lang.String interpretStatement()  
    throws StatementExecutionException
```

Translates the PML statement in a SQL update statement that performs update of the validity period

Returns:

A message containing the outcome of the execution

Throws:

[StatementExecutionException](#) - if something goes wrong

com.psychofree.statements

Class WrongKeywordException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- com.psychofree.statements.ParseError
        |-- com.psychofree.statements.WrongKeywordException

```

All Implemented Interfaces:

java.io.Serializable

```

public class WrongKeywordException
extends ParseError

```

Exception to be risen when, while parsing a statement, a wrong keyword is found

Constructor Summary

public	WrongKeywordException (java.lang.String token) Creates a new instance of WrongKeywordException
--------	---

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

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

Constructors

WrongKeywordException

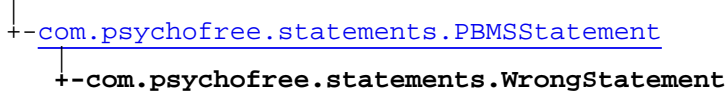
```
public WrongKeywordException(java.lang.String token)
```

Creates a new instance of WrongKeywordException

com.psychofree.statements

Class WrongStatement

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **WrongStatement**
 extends [PBMSStatement](#)

Wraps a statement that, if parsed, will produce a ParseError

Fields inherited from class [com.psychofree.statements.PBMSStatement](#)

[OTHER_STATEMENT](#), [PDL_OR_PML_STATEMENT](#), [QUERY_STATEMENT](#)

Constructor Summary

public	WrongStatement (java.lang.String stat)
public	WrongStatement (java.lang.String stat, java.lang.String cause)

Method Summary

java.lang.String	getCause ()
java.lang.String	getStatement ()
int	getStatementType ()
java.lang.Object	interpretStatement ()
void	parseStatement (java.io.StreamTokenizer st) This statement should never parse anything at all!!!

Methods inherited from class [com.psychofree.statements.PBMSStatement](#)

[getStatementType](#), [interpretStatement](#), [parseStatement](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

(continued from last page)

WrongStatement

```
public WrongStatement(java.lang.String stat)
```

WrongStatement

```
public WrongStatement(java.lang.String stat,  
                      java.lang.String cause)
```

Methods

getStatement

```
public java.lang.String getStatement()
```

getCause

```
public java.lang.String getCause()
```

parseStatement

```
public void parseStatement(java.io.StreamTokenizer st)  
    throws ParseError
```

This statement should never parse anything at all!!!

interpretStatement

```
public java.lang.Object interpretStatement()  
    throws StatementExecutionException
```

getStatementType

```
public int getStatementType()
```