

WDS-JniPMML-XLL Documentation

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General ReadMe

The primary objective of WDS-JniPMML-XLL is to provide model evaluators to Excel. In particular, access to the standard PMML evaluator is a starting point, both for use or for comparison. Later versions will be include other model specs and implement other evaluators.

See documentation articles for a brief introduction.

Through this version, WDS-JniPMML-XLL provides:

- A pair of Excel AddIns (XLLs) and VBA support for:
 - o Evaluating PMML models
 - As an Excel function call
 - Using the *de facto* standard implementations
 - Using input data from an in-worksheet table
 Uses XmlMap'd exportable ListObjects, but provides tools to facilitate
 - Can evaluate one or multiple observations (rows) per call
 - Results returned as normal function outputs
 - With cachable models for efficiency
 - Additional data wrangling tools for
 - Importing/Exporting HDF5 compound datasets
 - Importing/Exporting flat files
 - Additional VBA module handling
- A Java wrapper of jpmml.evaluator
 - o Callable from the XLL via jni
 - Testable as a standalone from the command line
 But, can be called through the Excel AddIn using the JVM.
 - o Input and output data can be:
 - HDF5 compound datasets
 - Flat files
 - In memory (as when called through jni)
- Examples are included
 - o A test workbook and launch .bat to run the AddIns without installing
 - o A test set of the usual PMML cases

Prerequisites

- 64 bit Excel
 - Although, if compiling, 32 bit could possibly be added.
- Access to the VBA project object model (if using the VBA module handlers
- HDF5 and HDFView
 - The HDF5 and HDFView libs are required if compiling, but the functionality could be removed.
 - The provided jars require at least HDFView be on the path or the path passed in as a command line option when starting Excel
- Java jdk-12
 - Required when using the latest HDFView install.
- Compiling environment
 - The github configurations are for Visual Studio Community Edition and Intellij Community edition.
- DocFx

DocFx is use for the documentation build, including the DocFxDoclet for on the JavaDoc side.

License Note

All code contributions and development from Wypasek Data Science, Inc. (WDataSci) published on its public github site is released under the MIT license. Code from other sources is noted as such, and any assemblies, XLL's, and/or jars that may contain other software (for example, as Apache's Maven or ExcelDna may bundle from other sources) are released along with the commonly used IDE project and/or solution files used to generate them.

TODOs, version 0.5.0

Outstanding items and items for the next version:

- Additional documentation and expanded test suite.
- Date and DateTime datatypes are not fully implemented. They are preliminarily setup to pass as doubles, but wrangling of string values, detection via cell information, and testing needs to be performed.
- The object cache and Handle/Tag handlers could be written better.
- Additional HDF5 utilities, such as returning a layout and querying an element when an HDF5 is used like a memory mapped file.
- Expanded VBA library.

An interesting thought or wish list:

- External memory mapped files, using the DBB wrangler.
- A parallel assembly for calling from MSSQLServer.

Related projects to be published on WDataSci's github site:

- WDataSci XML Model Specification, documentation and tools, including xsl implementation transformations.
- WDataSci Systems Model, documentation and tools.

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Articles

Brief Introduction

Additional Usage Notes

Notes on JniPMML

Notes on Java x Cs

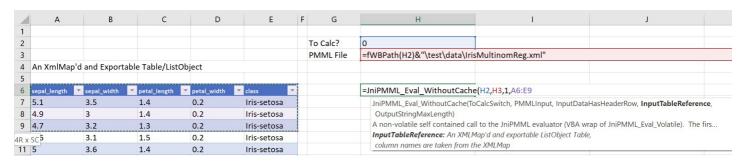
Brief Intro

The primary objective of WDS-JniPMML-XLL is to provide model evaluators to Excel. In particular, access to the standard PMML evaluators is a starting point, both for use or for comparison. Later versions will be include other model specs and implement other evaluators.

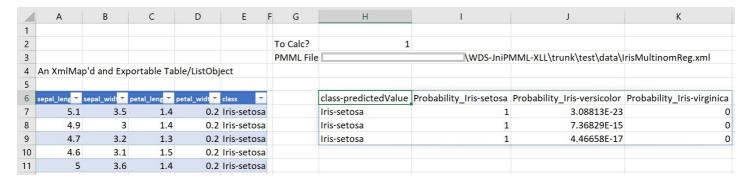
A quick easy way to evaluate PMML should be available to anyone, even those without access to the latest data science tools. In the finance industry, Excel is ubiquitous. To academic-type data scientists who might scoff at using Excel for anything, it is still a tool which can be used smartly or extremely poorly (which can certainly be said of Python, R, Java, C#, or anything else).

Simple Example

For one-time evaluations (less efficient, but simple), data is arranged in a table object. A macro is provided to assist in providing a technical requirement on the table. The JniPMML_Eval_WithoutCache function takes just a few arguments as below:



In older versions of Excel, results could be returned as an array-valued function, but in Excel 2016, the *spill* feature allows the function to return a dynamic number of rows and columns:



One thing that might not be obvious from the images above is these are function results. The inputs may even be randomized and (relatively) instantaneous evaluations returned.

Slightly More Complex

More efficient model evaluation involves caching the model and then repeated calls to the evaluator without having to do all of the parsing process of the model implementation spec for every calculation. There are several steps involved, but are simplified in the workbook:

• Pick a Tag for model

If you are thinking this should be called a *Handle*, that would seem correct. Except, the Handles are provided and controlled by the Java side and Tags are used on the Excel/C# side.

A Handle actually has two parts, *HandleMajor.HandleMinor*. The HandleMajor is unique to the Tag and the cached model on the Java side. The HandleMinor increments with subsequant configuration changes, such as caching the input schema from the ListObject and the output schema. Why do this? It is an Excel-trick. When other ranges depend on the HandleMajor.HandleMinor value of some cell, and that cell recalculates, the correct cascade of recalculations occurs.

Provide a PMML Model

Here the model can be either a path to a PMML file or (more interestingly) a full PMML file as a string. Why take the string? One could build the file in the workbook. Perhaps one is testing some transformation structure or just wants to see what happens.

• Create a handle

Cache the PMML model on the Java side and return the new handle to Excel.

• Cache the input and output headers

Based on the input XmlMap'd exportable table, update the HandleMinor. This also internally caches the model outputs which can be queried for column headings.

Note: Some PMML models are harder to fully determine the output structures and results are returned as a dictionary-like structure. In the current version and for this case, there is a function, JniPMML_Expand_ComplexValue that can be used to return an expansion. See the WDS-JniPMML-XLL-Test.xlsm workbook for an example.

• Point to input and return the evaluation

The input is an XmlMap'd exportable table. Before that raises any concerns, there is a macro available through the ribbon, "Add XmlMap to Selected ListObject", which will assign one to it through the following steps:

- Select a cell in a table or the entire table
- o Hit the macro and you will be queried for one of the following
 - Point to an external XSD file
 - Point to an XSD as a string in a cell
 - Infer one from the table
 - Use a cached PMML dictionary, matching by column name, and infer where a column is not in the dictionary

The slightly more complex example:

	А	В	С	D	E	F G	H I
1						Tag	IrisMultinom
2						PMML File	=fWBPath(H1)&"\test\data\IrisMultinomReg.xml"
3						Handle	=JniPMML_CreateHandle("JniPMML",H1,H2)
4	An XmlMap'd	and Exportab	ole Table/ListO	Object		Cache I/O Headers	=JniPMML_Eval_CacheHeaders(H3,A6)
5							
6	sepal_length 💌	sepal_width	petal_length	petal_width	▼ class ▼	Return Header	=JniPMML_Eval_OutputColumnHeadings(\$H\$4)
7	5.1	3.5	1.4	0.2	Iris-setosa	Single Row	=JniPMML_Eval(\$H\$4,0,A7:E7)
8	4.9	3	1.4	0.2	Iris-setosa	Multiple Rows	=JniPMML_Eval(\$H\$4,0,A8:E10
9	4.7	3.2	1.3	0.2	Iris-setosa		JniPMML_Eval(HandleOrTag, InputDataIncludesHeader, InputData)
10	4.6	3.1	1.5	0.2	Iris-setosa		Calls JniPMML.Eval based a previously set Header
11	5	3.6	1.4	0.2	Iris-setosa		InputData: Select Contiguous ListObject Rows, include header if needed for alignment.

With result:

	Α	В	С	D	E	F G	Н		J	K
1						Tag	IrisMultinom			
2						PMML File		\WDS-JniPMM	L-XLL\trunk\test\data\IrisN	AultinomReg.xml
3						Handle	1.1			
4	An XmlMa	p'd and Ex	portable Ta	ble/ListOb	ject	Cache I/O Headers	1.3			
5										
6	sepal_leng	sepal_widt	petal_leng ~	petal_widt	class	Return Header	class-predictedValue	Probability_Iris-setosa	Probability_Iris-versicolor	Probability_Iris-virginica
7	5.1	3.5	1.4	0.2	2 Iris-setosa	Single Row	Iris-setosa	1	3.08813E-23	0
8	4.9	3	1.4	0.2	2 Iris-setosa	Multiple Rows	Iris-setosa	1	7.36829E-15	0
9	4.7	3.2	1.3	0.2	2 Iris-setosa		Iris-setosa	1	4.46658E-17	0
10	4.6	3.1	1.5	0.2	2 Iris-setosa		Iris-setosa	1	7.84035E-12	0

See the provided Excel test workbook for additional examples.

Additional Usage Notes

Accessing Java via JNICode creates a COM AddIn
 Efforts have been made to make sure COM objects are clean up. However, should the process break for whatever reason, there may be an Excel process hanging around. In that case, look in the taskmgr's details. Or, use something like the powershell snippets in the scripts folder to find and stop.

Notes on JniPMML

Author: Christian Wypasek

Simple Motivation

My daughter, a college student, asked me to explain this project in one sentence and this was as close as I could get: Scientists build models. For even something as simple as linear regression, there is a formula that needs to evaluated. It might be for my own purposes, or it might be for a company I work for, but model implementation needs to be easily accessible. Even though data scientists might use special tools, everyone in financial services at least has Excel.

Slightly More Technical Motivation

Regardless of whether or not Excel might be highly regarded as a computational framework among academicians, it is ubiquitous in financial services (even if it might not be used well). Therefore, it makes sense that invoking an XML based evaluator from within Excel would be worthwhile. In particular, since Excel can enable rapid visualization, one should also be able to compare evaluator implementations and view model response to variable changes and/or model structure in a live manner.

XML/PMML

For someone like myself who works across the spectrum of big data projects (project management and business interface, data science, and data engineer) and works across multiple programming languages, consistency of treatments is a fundamental key to efficiency. After years of engineering databases, building complex statistical models for financial instruments, and incorporating these models into asset backed cash flow valuations, the greatest risks in this data science process are often operational. There is the most obvious question, "Is the data being used for forecasting sufficiently like the data the model was fit on?", but one also has to ask "Is the model being calculated correctly?".

From personal experience, hand coding something like a scoring model requires significant quality checks and carries the persistent risk that something was overlooked. It does not take too many hand coding events to make one believe there has got to be a better way, both for efficiency of process and the reduction of mistakes that come from mind numbing exercises. Starting back in 1998/1999, I started using markup styles to facilitate both the modeling process and facilitating the implementation for scoring and other types of regresson and non-parametric models. Since then, PMML (predictive modeling markup language) as become an industry standard.

The PMML standard has evolved and early versions were not sophisticated enough for my needs. For example, the Scorecard implementation was not added until the end of 2011, and transformations were not added until 2014. For all that it is, PMML is still a communication standard for model implementation and is often generated after a model has been fit. Continued diligence is required so the communicated model truly represents the intended relationship between the input data and the output results. A process oriented view of statistical model building starts with data preparation and can be exploited at every step of the process through to final implementation.

There may be more than one way to skin a cat, but very few which leave you with anything looks like a cat. My personal work has included using mathematical and statistical model specifications in XML with implementations in SAS, C++, Python, R, indatabase (Vertica, MSSQL) UDTFs in C++/Java/R, and VBA (in Excel). After drilling into PMML implementation details, there is still much to be desired. An updated XML specification used by WDataSci for model fitting and alternate implementations will be released on the its github as a later project, but transformation (such as through XSLT) into PMML for delivery is reasonable given the industry standardization that PMML offers. Other model implementation specifications, such as pfa, will emerge, and Excel will remain a platform for either a model delivery or easy comparison.

WDS-JniPMML as a multi-language project

The JniPMML project combines several APIs, each for a specific purpose:

- Java
 - The *de facto* implementation of PMML is jpmml.evaluator. JniPMML-Java wraps the implementation in a manner that creates a standalone jar that can also be called from C# via jni.
- C#

Using the ExcelDna project to facilitate Excel functionality, the JniPMML-Cs assembly wraps the jni calls.

- \/F
 - Some odds and ends which I have traditionally done in VBA, but using ExcelDna .Net. In particular, wrangling of the VBA modules is done in VB.
- VBA
 - Certain Excel functions created with ExcelDna through either C# or VB become *volatile* in that they recalculate at every calculation event (which can be a bad thing). However, good old fashioned VBA can do the same thing in a non-volatile manner.

Working in different languages for different aspects of a larger project is not unusual. For example, database work might be done in SQL, with processing either in database or written-out-processed-read-back-in, and final summaries might have an entirely different framework. When sub-projects have many parallel functions, the tendency of programmers to have a project on one side and then start from scratch on the other side, can lead to unexpected differences which the programmer then might struggle to balance. Complete one side, move to the other, discover some new or useful treatment, go back to the first side, restart loop. This project also started in that manner.

Passing data back and forth in-memory between Java and C# involves packing memory in a particular way, which also turned out to be the HDF5.Plnvoke bulk writes a HDF5 compound dataset (such as R can export). Development of the project included consideration of in-memory HDF5s, which despite HDF5 docs, is not ready for prime-time. For testing purposes, HDF5 CompoundDS and flat file functionality is included in the JniPMML-Java project and the Excel AddIn.

Finally, the Excel AddIn also includes other tools representative of some extended functionality I have come to expect over the years, such as VBA component wrangling and other examples. Even if this project is not used extensively outside of WDataSci, this project also become an in-house reference for C#/Java differences and quirks, DocFx, Excel AddIns (quirks across C#, ExcelDna, VB, VBA, COM, non-COM), PMML (and jpmml quirks), HDF5 (and quirks across HDF-Plnvoke, HDF-Java, HDF-Object), etc.

Notes on Java x Cs

Author: Christian Wypasek

The mirroring of the C# and Java code is meant not to be slick or cute. It is simply because both implementations are reading and writing the same formats. When handing off data in a ByteBuffer between C# and Java, in both directions, the formats must be exactly the same. (Note, not going down the AST route. It seems like if you are going to go that route, you should be all in.)

Some syntax differences are too big to bridge, such as in how enums are more flexible in Java than C#. With enums, just the values and methods (extensions in C#) are in common. The source codes will still be organized similarly, but this is also why enums are not otherwise in the files with their naturally associated classes.

Some syntax differences are not marked but obvious:

- Non-method properties, such as length/Length or boolean/Boolean, which are easy enough to fix in IDEs.
- To break String object references in Java where C# does not require it, a simple new_String() function in C# is a pass through and differs only with the "_".
- Method throws required in Java but not C# are on separate lines and commented out in C#.
- In switch-case statements on enum values where Java case statements do not require qualified names, there will be two lines one uncommented for Java, the other commented for C#, and visa-versa.

The syntax differences for many common methods amount only to the case of the leading letter, such as with Java's String.toString() vs C#'s String.ToString(). When this leading case issue is on a class method, they can be minimized through C#'s static extension methods, included in a static class, JavaLikeExtensions. Why not just let one letter differences ride, like in length/Length above? One line in one file and one less thing to highlight a difference in vimdiff. Other differences can be eliminated through specially named classes, mimicking names and methods used on the Java side, such as Map, PrintWriter, and ArrayList. Even though broken out in the documentation, on C#, they can all be included in the WDSXJava.cs, along with JavaLikeExtensions.

Syntax differences over lines or blocks are handled in two ways: First, when a one line change is required, a comment leading with //Java or //C# precedes the line. On the Java side, the //C# and subsequent line are collapsed, commenting out the C# syntax. The reverse treatment is used on the C# side.

For example, in C# version:

```
//C#
if ( !base.Equals(arg) ) return false;
//Java if ( !super.Equals(arg) ) return false;
```

And in the Java version:

```
//C# if ( !base.Equals(arg) ) return false;
//Java
if ( !super.Equals(arg) ) return false;
```

For larger blocks, we can exploit the behavior that an open-comment /* jumps over other open comments until the first closing */. Therefore, in the C# version (Note that the Java >>> comment is open):

```
/* C# >>> */
if ( !base.Equals(arg) ) return false;
/* <<< C# */
/* Java >>> *
if ( !super.Equals(arg) ) return false;
/* <<< Java */</pre>
```

And in the Java version (Note that the C# >>> comment is open):

```
/* C# >>> *
if ( !base.Equals(arg) ) return false;
/* <<< C# */
/* Java >>> */
if ( !super.Equals(arg) ) return false;
/* <<< Java */</pre>
```

There are multiple programming languages used in this project:

Note: This documentation bundle was created using DocFx, which was confusing documentation across APIs. Therefore, a separate PDF has been generated for each.

Java APIs

JniPMML-Java

The initial design of JniPMML-Java is to wrap jpmml into a single jar which can be called from Excel/C# via JNICode. However, it is a standalone that can be used with command line calls. It therefore has wranglers for text and HDF5 files in addition to the ByteBuffers for interacting with C#.

WDS-Java

General utilitities that independent of JniPMML code. To simplify assemblies and jars, this code is included in the larger projects, but is also compiled as a stand alone.

On the java side, there is a separate WDS-00.00.00.jar generated but it is pulled into a shaded jar so that only one WDS-JniPMML-00.00.00.jar needs to be used in practice.

C# APIs

JniPMML-Cs

The Java style com.WDataSci namespaces are specifically for C# code which mirrors the Java modules.

The JNI namespace originated externally, but with a few local completion and extensions.

WDS-Cs

General utilitities that independent of JniPMML code. To simplify assemblies and jars, this code is included in the larger projects, but is also compiled as a stand alone.

The Java style com.WDataSci namespaces are specifically for C# code which mirrors the Java modules.

The C# style namespaces are not specifically mirrored in the Java code.

VB APIs

JniPMML-VB

The JniPMML-VB code is primarily for some additional Excel manipulation functionality. In particular, the wrangling the Excel VBE components. The ExcelDna and Microsoft.Office.Interop.Excel libraries are generally mirrored in both C# and VB, however, ExcelDna UDF functions which take references as objects so that information about the caller can be determined at run-time become automatically volatile. For this reason, there are several function wrappers implemented in VBA which must be either in an another addin, or as a VBA module in the workbook. The JniPMML-VB (and supporting WDS-VB code which is pulled into the assembly) addin facilitates these wrapped functions by providing a wrangler for a WDSJniPMML.bas module.

WDS-VB

General utilitities that independent of JniPMML code. To simplify assemblies and jars, this code is included in the larger projects, but is also compiled as a stand alone.

VBA APIs

WDS-VBA

The WDS-VBA code is a collection of VBA macros that can be included in Excel workbooks and there are C#/VB macros accessibly through the ribbon to wrangle them in and out of workbooks as needed.

There is a necessity for at least the WDSCore macro for adding ExcelDna Intellisense capabilities.

Java APIs

JniPMML-Java

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JniPMML-Java

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Namespace com.WDataSci.JniPMML

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Classes

Cmd

CmdArgs

DBB

DBB.Default

Default

FieldBaseMD

FieldBaseMD contains the cross-package data field information.

It holds cached information for input and output processing and provides the any simplifications, for example, numeric types that are not int, long, byte, or boolean, are taken as double.

On purpose, the enumerated type names are only 3 characters to make the use explicit and not cause any confusion with XSD, PMML, SQL, or HDF5 types.

On the Java side, because of the *finalized* status of org.dmg.pmml.FieldName, which is used as the column key for input and output columns of the jpmml evaluator, handling of the mapping and cache of org.dmg.pmml.FieldNames is handled by the FieldMD implementation of XDataFieldKeyInterface.

FieldBaseMD.Default

FieldMD

FieldMDEnums

JniPMML

JniPMML is the main bridge between callers (at the moment, either from C# or a Java command line) and a wrap around a PMML document and its evaluator. To allow a caching of multiple documents and input/output maps, JniPMML contains a collection of JniPMMLItems which can be called by handle or the last one used.

The intent is to pass data frame like blocks of data as inputs for evaluation. Because of incomplete interfaces in HDF5, this is done

via a ByteBuffer from C#, but Wranglers for FlatFiles, HDF5, DBB (Direct ByteBuffer) and others are or will be implemented. **JniPMMLItem** ${\sf JniPMMLItem._ConfigMatter}$ JniPMMLItem.__InputMatter JniPMMLItem.__OutputMatter JniPMMLItem.__PMMLMatter RecordSet RecordSetMD RecordSetMD.__ModeMatter RecordSetMD.__SchemaMatter RecordSetMDEnums Util WranglerDBB $Wrangler DBB. __DBBMatter$ WranglerFlatFile WranglerHDF5 WranglerHDF5.HDF5DataType WranglerXSD Interfaces FieldMD1Key<T> Enums FieldMDEnums.eDTyp FieldMDEnums.eRTyp Record Set MD Enums. e ModeRecord Set MD Enums. e Schema TypeRecordSetMDEnums.eType

Class Cmd

٦h			

java.lang.Object

 $\mathsf{Cmd} \\$

Namespace:

Assembly: .dll

Syntax

public class Cmd

Constructors

Cmd()

Declaration

public Cmd()

Methods

main(String[] argv)

Declaration

public static void main(String[] argv)

Parameters

ТУРЕ	NAME	DESCRIPTION
	argv	

Exceptions

ТУРЕ	CONDITION
java.lang.Exception	

Class CmdArgs

Inheritance

java.lang.Object

CmdArgs

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class CmdArgs

Constructors

CmdArgs()

Declaration

public CmdArgs()

Fields

help

Declaration

public boolean help

Field Value

ТҮРЕ	DESCRIPTION
boolean	

verbose

Declaration

public boolean verbose

Field Value

ТҮРЕ	DESCRIPTION
boolean	

aBaseDir

Declaration

public String aBaseDir

Field Value

ТУРЕ	DESCRIPTION
java.lang.String	

aPMMLFileName

Declaration

public String aPMMLFileName

Field Value

TY	уре	DESCRIPTION
ja	va.lang.String	

a Input File Type

Declaration

public String aInputFileType

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

aInputFileName

Declaration

public String aInputFileName

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

a Input Schema File Name

Declaration

public String aInputSchemaFileName

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

a Input Schema Record Set Name

Declaration

public String aInputSchemaRecordSetName

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

$a \\ Input \\ Schema \\ Type$

Declaration

public String aInputSchemaType

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

bCheckForHeaderRow

Declaration

public boolean bCheckForHeaderRow

Field Value

ТҮРЕ	DESCRIPTION
boolean	

b Input Has Header Row

Declaration

public boolean bInputHasHeaderRow

Field Value

ТҮРЕ	DESCRIPTION
boolean	

aInputFileDIm

Declaration

public String aInputFileDlm

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

$a \\ Output \\ File \\ Name$

Declaration

public String aOutputFileName

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

$a \\ Output \\ File \\ Type$

Declaration

public String aOutputFileType

ТҮРЕ	DESCRIPTION
java.lang.String	

a Output HDF5 Fixed String Length

Declaration

public int aOutputHDF5FixedStringLength

Field Value

ТУРЕ	DESCRIPTION
int	

$b \\ Output \\ Header \\ Row$

Declaration

public boolean bOutputHeaderRow

Field Value

ТҮРЕ	DESCRIPTION
boolean	

$a \\ Output \\ HDF5 \\ Data \\ Set \\ Name$

Declaration

public String aOutputHDF5DataSetName

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

bOutputInputFields

Declaration

public boolean bOutputInputFields

Field Value

ТҮРЕ	DESCRIPTION
boolean	

a Output Input Field Name Suffix

Declaration

public String aOutputInputFieldNameSuffix

ТҮРЕ	DESCRIPTION
java.lang.String	

a Output Composite Field DIm

Declaration

public String aOutputCompositeFieldDlm

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

$a \\ Output \\ File \\ Dlm$

Declaration

public String aOutputFileDlm

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

Methods

mProcessBaseDir()

Declaration

public void mProcessBaseDir()

mRecapParameters()

Declaration

public String mRecapParameters()

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

mRecap()

Declaration

public void mRecap()

Class DBB

Inheritance

java.lang.Object

DBB

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class DBB

Constructors

DBB(ByteBuffer arg)

Declaration

public DBB(ByteBuffer arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	

DBB(byte[] arg)

Declaration

public DBB(byte[] arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

DBB(WDataSci.JniPMML.DBB arg, boolean bJustData)

Declaration

public DBB(WDataSci.JniPMML.DBB arg, boolean bJustData)

Parameters

ТУРЕ	NAME	DESCRIPTION
	arg	
boolean	bJustData	

DBB(byte[] arg, int offset, boolean bIsBigEndian)

Declaration

public DBB(byte[] arg, int offset, boolean bIsBigEndian)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	
int	offset	
boolean	blsBigEndian	

DBB(byte[] arg, int offset, int length, boolean bIsBigEndian)

Declaration

public DBB(byte[] arg, int offset, int length, boolean bIsBigEndian)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	
int	offset	
int	length	
boolean	blsBigEndian	

Fields

data

Declaration

public byte[] data

Field Value

ТҮРЕ	DESCRIPTION

datawrap

Declaration

public ByteBuffer datawrap

Field Value

ТҮРЕ	DESCRIPTION
java.nio.ByteBuffer	

bUsing Byte Buffer Only

Declaration

 $boolean\ bUsing Byte Buffer Only$

ТҮРЕ	DESCRIPTION
boolean	

bHasLeaders

Declaration

public boolean bHasLeaders

Field Value

ТҮРЕ	DESCRIPTION
boolean	

b Has FL en VL en Split

Declaration

public boolean bHasFLenVLenSplit

Field Value

ТҮРЕ	DESCRIPTION
boolean	

blsReadOnly

Declaration

public boolean bIsReadOnly

Field Value

ТҮРЕ	DESCRIPTION
boolean	

offset

Declaration

public long offset

Field Value

ТУРЕ	DESCRIPTION
long	

Length

Declaration

public long Length

ТУРЕ	DESCRIPTION
long	

flenoffset

Declaration

public long flenoffset

Field Value

ТУРЕ	DESCRIPTION
long	

flenlength

Declaration

public long flenlength

Field Value

ТУРЕ	DESCRIPTION
long	

vlenoffset

Declaration

public long vlenoffset

Field Value

ТҮРЕ	DESCRIPTION
long	

vlenlength

Declaration

public long vlenlength

Field Value

ТУРЕ	DESCRIPTION
long	

LayoutStyle

Declaration

public String LayoutStyle

ТҮРЕ	DESCRIPTION
java.lang.String	

$n \, \mathsf{D} \, \mathsf{B} \, \mathsf{RequiredBytes}$

Declaration

public long nDBBRequiredBytes

Field Value

ТУРЕ	DESCRIPTION
long	

${\tt nDBBLeadingBytes}$

Declaration

public long nDBBLeadingBytes

Field Value

ТҮРЕ	DESCRIPTION
long	

${\tt nDBBFLenBytes}$

Declaration

public long nDBBFLenBytes

Field Value

ТҮРЕ	DESCRIPTION
long	

$n \, \mathsf{D} \, \mathsf{B} \, \mathsf{V} \, \mathsf{Len} \, \mathsf{B} \, \mathsf{ytes}$

Declaration

public long nDBBVLenBytes

Field Value

ТУРЕ	DESCRIPTION
long	

nRecords

Declaration

public long nRecords

ТҮРЕ	DESCRIPTION
long	

nRecord FLen Bytes

Declaration

public long nRecordFLenBytes

Field Value

ТУРЕ	DESCRIPTION
long	

n Record VLen Bytes

Declaration

public long nRecordVLenBytes

Field Value

ТҮРЕ	DESCRIPTION
long	

bls Big Endian

Declaration

public boolean bIsBigEndian

Field Value

ТҮРЕ	DESCRIPTION
boolean	

ptr

Declaration

public long ptr

Field Value

ТУРЕ	DESCRIPTION
long	

flenptr

Declaration

public long flenptr

ТҮРЕ	DESCRIPTION
long	

vlenptr

Declaration

public long vlenptr

Field Value

ТҮРЕ	DESCRIPTION
long	

Methods

Dispose()

Declaration

public void Dispose()

isValid()

Declaration

public boolean isValid()

Returns

ТҮРЕ	DESCRIPTION
boolean	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

position(long ptr, long flenptr, long vlenptr)

Declaration

public void position(long ptr, long flenptr, long vlenptr)

Parameters

ТҮРЕ	NAME	DESCRIPTION
long	ptr	
long	flenptr	
long	vlenptr	

Reset()

Declaration

Wrap(byte[] arg)

Declaration

public WDataSci.JniPMML.DBB Wrap(byte[] arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

Returns

ТҮРЕ	DESCRIPTION

cReadExistingLayout()

Declaration

public WDataSci.JniPMML.DBB cReadExistingLayout()

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

cWrap(ByteBuffer arg)

Declaration

public WDataSci.JniPMML.DBB cWrap(ByteBuffer arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

cWrap(ByteBuffer arg, int offset, boolean blsBigEndian)

Declaration

public WDataSci.JniPMML.DBB cWrap(ByteBuffer arg, int offset, boolean bIsBigEndian)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
int	offset	
boolean	blsBigEndian	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

cWrap(byte[] arg, int offset, boolean blsBigEndian)

Declaration

public WDataSci.JniPMML.DBB cWrap(byte[] arg, int offset, boolean bIsBigEndian)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	
int	offset	
boolean	blsBigEndian	

Returns

ТҮРЕ	DESCRIPTION

cWrap(byte[] arg, int offset, int length, boolean blsBigEndian)

Declaration

public WDataSci.JniPMML.DBB cWrap(byte[] arg, int offset, int length, boolean bIsBigEndian)

ТҮРЕ	NAME	DESCRIPTION
	arg	
int	offset	
int	length	
boolean	blsBigEndian	

Returns

ТУРЕ	DESCRIPTION

cAsReadOnly()

Declaration

public WDataSci.JniPMML.DBB cAsReadOnly()

Returns

ТҮРЕ	DESCRIPTION

cWithOffset(int offset)

Declaration

public WDataSci.JniPMML.DBB cWithOffset(int offset)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	offset	

Returns

ТҮРЕ	DESCRIPTION

cWithLength(int length)

Declaration

public WDataSci.JniPMML.DBB cWithLength(int length)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	length	

Returns

ТҮРЕ	DESCRIPTION

cAsBigEndian()

Declaration

public WDataSci.JniPMML.DBB cAsBigEndian()

Returns

ТҮРЕ	DESCRIPTION

cAsNotBigEndian()

Declaration

public WDataSci.JniPMML.DBB cAsNotBigEndian()

Returns

ТУРЕ	DESCRIPTION

cAsSimple()

Declaration

public WDataSci.JniPMML.DBB cAsSimple()

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$cAs HDF5 Bulk Compound DSW rite Layout (long\ nRecords,\ long\ nRecordFLen Bytes)$

Declaration

 $\verb|public WDataSci.JniPMML.DBB| cashDF5BulkCompoundDSWriteLayout(long nRecords, long nRecordFLenBytes)| \\$

Parameters

ТҮРЕ	NAME	DESCRIPTION
long	nRecords	
long	nRecordFLenBytes	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

cAsUsualLayout(String LayoutStyle, long nLeadingBytes, long nRecords, long nRecordFLenBytes, long nRecordVLenBytes)

Declaration

public WDataSci.JniPMML.DBB cAsUsualLayout(String LayoutStyle, long nLeadingBytes, long nRecords, long
nRecordFLenBytes, long nRecordVLenBytes)

Parameters

ТУРЕ	NAME	DESCRIPTION
java.lang.String	LayoutStyle	
long	nLeadingBytes	
long	nRecords	
long	nRecordFLenBytes	
long	nRecordVLenBytes	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

cAsUsualLayout(String LayoutStyle, long nRecords, long nRecordFLenBytes, long nRecordVLenBytes)

Declaration

public WDataSci.JniPMML.DBB cAsUsualLayout(String LayoutStyle, long nRecords, long nRecordFLenBytes, long
nRecordVLenBytes)

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	LayoutStyle	
long	nRecords	

ТУРЕ	NAME	DESCRIPTION	
long	nRecordFLenBytes		
long	nRecordVLenBytes		

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

isDirect()

Declaration

public boolean isDirect()

Returns

ТҮРЕ	DESCRIPTION
boolean	

GetLayerByte(int layer)

Declaration

public byte GetLayerByte(int layer)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	

Returns

ТҮРЕ	DESCRIPTION
byte	

GetLayerByteAt(int layer, long arg)

Declaration

public byte GetLayerByteAt(int layer, long arg)

ТҮРЕ	NAME	DESCRIPTION
int	layer	

ТҮРЕ	NAME	DESCRIPTION
long	arg	

ТҮРЕ	DESCRIPTION
byte	

GetLayerInt(int layer)

Declaration

public int GetLayerInt(int layer)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	

Returns

ТҮРЕ	DESCRIPTION
int	

GetLayerInt(int layer, long atarg)

Declaration

public int GetLayerInt(int layer, long atarg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	

Returns

ТҮРЕ	DESCRIPTION
int	

GetLayerLong(int layer)

Declaration

public long GetLayerLong(int layer)

ТҮРЕ	NAME	DESCRIPTION
int	layer	

ТҮРЕ	DESCRIPTION
long	

GetLayerLong(int layer, long atarg)

Declaration

public long GetLayerLong(int layer, long atarg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	

Returns

ТҮРЕ	DESCRIPTION
long	

GetLayerDouble(int layer)

Declaration

public double GetLayerDouble(int layer)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	

Returns

ТҮРЕ	DESCRIPTION
double	

GetLayerDouble(int layer, long atarg)

Declaration

public double GetLayerDouble(int layer, long atarg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	

Returns

ТҮРЕ	DESCRIPTION
double	

PutLayerInt(int layer, int value)

Declaration

public void PutLayerInt(int layer, int value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
int	value	

PutLayerInt(int layer, long atarg, int value)

Declaration

public void PutLayerInt(int layer, long atarg, int value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	
int	value	

PutLayerLong(int layer, long value)

Declaration

public void PutLayerLong(int layer, long value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	value	

PutLayerLong(int layer, long atarg, long value)

Declaration

public void PutLayerLong(int layer, long atarg, long value)

ТҮРЕ	NAME	DESCRIPTION
int	layer	

ТҮРЕ	NAME	DESCRIPTION
long	atarg	
long	value	

PutLayerDouble(int layer, double value)

Declaration

public void PutLayerDouble(int layer, double value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
double	value	

PutLayerDouble(int layer, long atarg, double value)

Declaration

public void PutLayerDouble(int layer, long atarg, double value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	
double	value	

PutLayerBytes(int layer, byte[] value)

Declaration

public void PutLayerBytes(int layer, byte[] value)

Parameters

ТУРЕ	NAME	DESCRIPTION
int	layer	
	value	

PutLayerBytes(int layer, long atarg, byte[] value)

Declaration

public void PutLayerBytes(int layer, long atarg, byte[] value)

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	
	value	

PutLayerZeros(int layer, int value)

Declaration

public void PutLayerZeros(int layer, int value)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
int	value	

PutLayerZeros(int layer, long atarg, int value)

Declaration

public void PutLayerZeros(int layer, long atarg, int value)

Parameters

ТУРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	
int	value	

GetLayerFLenString(int layer, long nByteMaxLength)

Declaration

public String GetLayerFLenString(int layer, long nByteMaxLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	nByteMaxLength	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

GetLayerFLenString(int layer, long atarg, long nByteMaxLength)

Declaration

public String GetLayerFLenString(int layer, long atarg, long nByteMaxLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	
long	nByteMaxLength	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

GetLayerVLenString(int layer, long nByteMaxLength)

Declaration

public String GetLayerVLenString(int layer, long nByteMaxLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	nByteMaxLength	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

GetLayerVLenString(int layer, long atarg, long nByteMaxLength)

Declaration

public String GetLayerVLenString(int layer, long atarg, long nByteMaxLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	
long	nByteMaxLength	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

PutLayerFLenString(int layer, String value, int nByteMaxLength, int nZeroBytes)

Declaration

public void PutLayerFLenString(int layer, String value, int nByteMaxLength, int nZeroBytes)

Parameters

ТУРЕ	NAME	DESCRIPTION
int	layer	
java.lang.String	value	
int	nByteMaxLength	
int	nZeroBytes	

PutLayerFLenString(int layer, long atarg, String value, int nByteMaxLength, int nZeroBytes)

Declaration

public void PutLayerFLenString(int layer, long atarg, String value, int nByteMaxLength, int nZeroBytes)

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	value	
int	nByteMaxLength	
int	nZeroBytes	

PutLayerVLenString(int layer, String value, int nByteMaxLength, int nZeroBytes)

Declaration

public void PutLayerVLenString(int layer, String value, int nByteMaxLength, int nZeroBytes)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
java.lang.String	value	
int	nByteMaxLength	
int	nZeroBytes	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

PutLayerVLenString(int layer, long atarg, String value, int nByteMaxLength, int nZeroBytes)

Declaration

public void PutLayerVLenString(int layer, long atarg, String value, int nByteMaxLength, int nZeroBytes)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	layer	
long	atarg	
java.lang.String	value	
int	nByteMaxLength	
int	nZeroBytes	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

Class DBB.Default

Inheritance

java.lang.Object

DBB.Default

 $Assembly{:}\ .dll$

Syntax

public static class DBB.Default

Constructors

Default()

Declaration

public Default()

Fields

nLeading Bytes

Declaration

public static final long nLeadingBytes

Field Value

ТҮРЕ	DESCRIPTION
long	

Class Default

Inheritance

java.lang.Object

Default

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class Default

Constructors

Default()

Declaration

public Default()

Fields

ISJAVA

Declaration

public static final boolean ISJAVA

Field Value

ТҮРЕ	DESCRIPTION
boolean	

ISCSHARP

Declaration

public static final boolean ISCSHARP

Field Value

ТҮРЕ	DESCRIPTION
boolean	

Header String Max Length

Declaration

 $\verb"public static final int HeaderStringMaxLength"$

Field Value

ТҮРЕ	DESCRIPTION
int	

StringMaxLength

Declaration

public	static	final	int	StringMaxLength

Field Value

ТҮРЕ	DESCRIPTION
int	

${\tt any VLenRead}$

Declaration

public static final Boolean anyVLenRead

Field Value

ТҮРЕ	DESCRIPTION
java.lang.Boolean	

${\tt any VLen Write}$

Declaration

public static final Boolean anyVLenWrite

Field Value

ТҮРЕ	DESCRIPTION
java.lang.Boolean	

Class FieldBaseMD

FieldBaseMD contains the cross-package data field information.

It holds cached information for input and output processing and provides the any simplifications, for example, numeric types that are not int, long, byte, or boolean, are taken as double.

On purpose, the enumerated type names are only 3 characters to make the use explicit and not cause any confusion with XSD, PMML, SQL, or HDF5 types.

On the Java side, because of the *finalized* status of org.dmg.pmml.FieldName, which is used as the column key for input and output columns of the jpmml evaluator, handling of the mapping and cache of org.dmg.pmml.FieldNames is handled by the FieldMD implementation of XDataFieldKeyInterface.

Inheritance

java.lang.Object

FieldBaseMD

Namespace:

Assembly: .dll

Syntax

public class FieldBaseMD

Constructors

FieldBaseMD()

Declaration

public FieldBaseMD()

FieldBaseMD(String _Name, WDataSci.JniPMML.FieldMDEnums.eDTyp _DTyp)

Declaration

public FieldBaseMD(String _Name, WDataSci.JniPMML.FieldMDEnums.eDTyp _DTyp)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	_Name	
WDataSci.JniPMML.FieldMDEnums.eDTyp	_DТур	

FieldBaseMD(String Name, WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp, int StringMaxLength)

Declaration

public FieldBaseMD(String Name, WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp, int StringMaxLength)

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	Name	
WDataSci.JniPMML.FieldMDEnums.eDTyp	DТур	

ТҮРЕ	NAME	DESCRIPTION
int	StringMaxLength	

FieldBaseMD(WDataSci.JniPMML.FieldBaseMD arg)

Declaration

public FieldBaseMD(WDataSci.JniPMML.FieldBaseMD arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

FieldBaseMD(String Name, int hclass, int hlength, int horder, int hsign)

Declaration

public FieldBaseMD(String Name, int hclass, int hlength, int horder, int hsign)

Parameters

ТУРЕ	NAME	DESCRIPTION
java.lang.String	Name	
int	hclass	
int	hlength	
int	horder	
int	hsign	

Fields

Name

Declaration

public String Name

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

DTyp

Declaration

public WDataSci.JniPMML.FieldMDEnums.eDTyp

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.FieldMDEnums.eDTyp	

RTyp

Declaration

public WDataSci.JniPMML.FieldMDEnums.eRTyp RTyp

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.FieldMDEnums.eRTyp	

${\sf StringMaxLength}$

Declaration

public int StringMaxLength

Field Value

ТҮРЕ	DESCRIPTION
int	

ByteMaxLength

Declaration

public long ByteMaxLength

Field Value

ТҮРЕ	DESCRIPTION
long	

ByteMemLength

Declaration

public long ByteMemLength

Field Value

ТҮРЕ	DESCRIPTION
long	

ExternalDTyp

Declaration

 ${\tt public} \ {\tt WDataSci.JniPMML.FieldMDEnums.eDTyp} \ {\tt ExternalDTyp}$

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.FieldMDEnums.eDTyp	

Byte Mem Off set

Declaration

public long ByteMemOffset

Field Value

ТҮРЕ	DESCRIPTION
long	

Format

Declaration

public String Format

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

HDF5DataType

Declaration

public WDataSci.JniPMML.WranglerHDF5.HDF5DataType

Field Value

ТУРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerHDF5.HDF5DataType	

Methods

Equals(WDataSci.JniPMML.FieldBaseMD arg)

Declaration

public boolean Equals(WDataSci.JniPMML.FieldBaseMD arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

Returns

ТҮРЕ	DESCRIPTION
boolean	

$Copy (WDataSci.JniPMML.FieldBaseMD\ arg)$

Declaration

<pre>public void Copy(WDataSci.JniPMML.FieldBaseMD arg)</pre>)
---	---

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

FLenByteLength()

Declaration

public long FLenByteLength()

Returns

ТҮРЕ	DESCRIPTION
long	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

isVLen()

Declaration

public boolean isVLen()

Returns

ТҮРЕ	DESCRIPTION
boolean	

Consistency()

Declaration

public void Consistency()

ТУРЕ	CONDITION
WDataSci.WDS.WDSException	

ТҮРЕ	CONDITION

isMappedToHDF5DataType()

Declaration

public boolean isMappedToHDF5DataType()

Returns

ТҮРЕ	DESCRIPTION
boolean	

MapToHDF5DataType(WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp)

Declaration

public WDataSci.JniPMML.FieldBaseMD MapToHDF5DataType(WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.FieldMDEnums.eDTyp	DТур	

Returns

ТУРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

$Map To HDF5 Data Type (WData Sci. JniPMML. Field MDE nums. eDTyp\ DTyp,\ int\ nString Max Length,\ boolean\ any VLen)$

Declaration

public WDataSci.JniPMML.FieldBaseMD MapToHDF5DataType(WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp, int nStringMaxLength, boolean anyVLen)

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.FieldMDEnums.eDTyp	DТур	
int	nStringMaxLength	
boolean	anyVLen	

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

MapToHDF5DataType(int hclass, int hlength, int horder, int hsign)

Declaration

public WDataSci.JniPMML.FieldBaseMD MapToHDF5DataType(int hclass, int hlength, int horder, int hsign)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	hclass	
int	hlength	
int	horder	
int	hsign	

Returns

ТУРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

MapToHDF5DataType(long arg)

Declaration

public WDataSci.JniPMML.FieldBaseMD MapToHDF5DataType(long arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
long	arg	

Returns

ТҮРЕ	DESCRIPTION

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

Class FieldBaseMD.Default

Inheritance

java.lang.Object

FieldBaseMD.Default

Namespace:

 $Assembly{:}\ .dll$

Syntax

public static class FieldBaseMD.Default

Constructors

Default()

Declaration

public Default()

Fields

Header String Max Length

Declaration

public static final int HeaderStringMaxLength

Field Value

ТУРЕ	DESCRIPTION
int	

StringMaxLength

Declaration

public static final int StringMaxLength

Field Value

ТҮРЕ	DESCRIPTION
int	

Class FieldMD

Inheritance

WDataSci.JniPMML.FieldBaseMD

FieldMD

Implements

com.WDataSci.JniPMML.FieldMDIKey<org.dmg.pmml.FieldName>

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class FieldMD extends WDataSci.JniPMML.FieldBaseMD implements WDataSci.JniPMML.FieldMDIKey<FieldName>

Constructors

FieldMD()

Declaration

public FieldMD()

FieldMD(WDataSci.JniPMML.FieldMD arg)

Declaration

public FieldMD(WDataSci.JniPMML.FieldMD arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

FieldMD(String Name, int hclass, int hlength, int horder, int hsign)

Declaration

public FieldMD(String Name, int hclass, int hlength, int horder, int hsign)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	Name	
int	hclass	
int	hlength	
int	horder	
int	hsign	

Fields

MapKey

Declaration

public FieldName MapKey

Field Value

ТҮРЕ	DESCRIPTION
org.dmg.pmml.FieldName	

Methods

MappedKey()

Declaration

public FieldName MappedKey()

Returns

ТҮРЕ	DESCRIPTION
org.dmg.pmml.FieldName	

MappedKeyValue()

Declaration

public String MappedKeyValue()

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

hasMapKey()

Declaration

public boolean hasMapKey()

Returns

ТҮРЕ	DESCRIPTION
boolean	

MapToMapKey(FieldName aFieldName)

Declaration

public void MapToMapKey(FieldName aFieldName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
org.dmg.pmml.FieldName	aFieldName	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

MapToMapKey(String aFieldStringName)

Declaration

public WDataSci.JniPMML.FieldMD MapToMapKey(String aFieldStringName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	aFieldStringName	

Returns

ТУРЕ	DESCRIPTION

Equals(WDataSci.JniPMML.FieldMD arg)

Declaration

public boolean Equals(WDataSci.JniPMML.FieldMD arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

Returns

ТУРЕ	DESCRIPTION
boolean	

Copy(WDataSci.JniPMML.FieldMD arg)

Declaration

public void Copy(WDataSci.JniPMML.FieldMD arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

Implements

com. WD at a Sci. Jn iPMML. Field MDIKey < org. dmg. pmml. Field Name >

Class FieldMDEnums

Inheritance

java.lang.Object

FieldMDEnums

Namespace:
Assembly: .dll

Syntax

public class FieldMDEnums

Constructors

FieldMDEnums()

Declaration

public FieldMDEnums()

Enum FieldMDEnums.eDTyp

Namespace:

 $Assembly{:}\ .dll$

Syntax

public enum FieldMDEnums.eDTyp extends Enum<WDataSci.JniPMML.FieldMDEnums.eDTyp>

Fields

NAME	DESCRIPTION
Unk	
Dbl	
Lng	
Int	
Dte	
DTm	
Str	
VLS	
Byt	
Bln	

Methods

NAME	DESCRIPTION	
values()		
valueOf(String name)		
isString()		
isVLenString()		
isVLen()		
isNumeric()		
AsInt()		
FromInt(int arg)		
FromAlias(String arg, int[] typl)		

NAME	DESCRIPTION
toVerboseString()	
toString()	
ToString()	
bln(WDataSci.JniPMML.FieldMDEnums.eDTyp[] args)	

Enum FieldMDEnums.eRTyp

Namespace:

 $Assembly{:}\ .dll$

Syntax

public enum FieldMDEnums.eRTyp extends Enum<WDataSci.JniPMML.FieldMDEnums.eRTyp>

Fields

NAME	DESCRIPTION
Unknown	
Output	
Target	
Feature	
Cluster	

Methods

NAME	DESCRIPTION
values()	
valueOf(String name)	
AsInt()	
FromInt(int arg)	
FromAlias(String arg)	
toVerboseString()	
toString()	
ToString()	
bln(WDataSci.JniPMML.FieldMDEnums.eRTyp[] args)	

Interface FieldMDIKey<T>

Namespace:

Assembly: .dll

Syntax

<pre>public interface FieldMDIKey<t></t></pre>	public	interface	FieldMDIKev <t></t>	
--	--------	-----------	---------------------	--

Type Parameters

NAME	DESCRIPTION
Т	

Methods

MappedKey()

Declaration

public abstract T MappedKey()

Returns

ТҮРЕ	DESCRIPTION
Т	

hasMapKey()

Declaration

public abstract boolean hasMapKey()

Returns

ТҮРЕ	DESCRIPTION
boolean	

MapToMapKey(T arg)

Declaration

public abstract void MapToMapKey(T arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
Т	arg	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

Class JniPMML

JniPMML is the main bridge between callers (at the moment, either from C# or a Java command line) and a wrap around a PMML document and its evaluator. To allow a caching of multiple documents and input/output maps, JniPMML contains a collection of JniPMMLItems which can be called by handle or the last one used.

The intent is to pass data frame like blocks of data as inputs for evaluation. Because of incomplete interfaces in HDF5, this is done via a ByteBuffer from C#, but Wranglers for FlatFiles, HDF5, DBB (Direct ByteBuffer) and others are or will be implemented.

Inheritance

java.lang.Object

JniPMML

Namespace:

Assembly: .dll

Syntax

public class JniPMML

Constructors

JniPMML()

Declaration

public JniPMML()

Fields

Handle

Declaration

protected Integer[] Handle

Field Value

ТУРЕ	DESCRIPTION

Items

Declaration

protected List<WDataSci.JniPMML.JniPMMLItem> Items

Field Value

ТҮРЕ	DESCRIPTION	
java.util.List < com.WDataSci.JniPMML.JniPMMLItem>		

Methods

isValidHandle(int arg)

Declaration

public boolean isValidHandle(int arg)

ТҮРЕ	NAME	DESCRIPTION
int	arg	

ТҮРЕ	DESCRIPTION
boolean	

HandleMajor()

Declaration

public int HandleMajor()

Returns

ТҮРЕ	DESCRIPTION
int	

HandleMajor(int arg)

Declaration

public int HandleMajor(int arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg	

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

Handle()

Declaration

public String Handle()

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Handle(int arg)

Declaration

public	String	<pre>Handle(int</pre>	arg)
--------	--------	-----------------------	------

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

HandleMinor()

Declaration

public int HandleMinor()

Returns

ТУРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

HandleMinor(int arg)

Declaration

public int HandleMinor(int arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg	

Returns

ТҮРЕ	DESCRIPTION
int	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

HandleNext()

Declaration

public int HandleNext()

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

ItemNew()

Declaration

public WDataSci.JniPMML.JniPMMLItem ItemNew()

Returns

TY	уре	DESCRIPTION
W	/DataSci.JniPMML.JniPMMLItem	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

ItemNewHandle()

Declaration

public int ItemNewHandle()

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

GetItem()

Declaration

public WDataSci.JniPMML.JniPMMLItem GetItem()

Returns

ТҮРЕ	DESCRIPTION
WDataSci.JniPMMLJniPMMLItem	

Exceptions

ТУРЕ	CONDITION
WDataSci.WDS.WDSException	

GetItem(int arg)

Declaration

public WDataSci.JniPMML.JniPMMLItem GetItem(int arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg	

Returns

ТҮРЕ	DESCRIPTION
WDataSci,JniPMMLJniPMMLItem	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

ItemDispose(int arg)

Declaration

public void ItemDispose(int arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$mPMMLLoadFromString (String\ arg)$

Declaration

public String mPMMLLoadFromString(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

mPMMLLoadFromString(int arg0, String arg)

Declaration

public String mPMMLLoadFromString(int arg0, String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

mPMMLLoadFromFile(String arg)

Declaration

public String mPMMLLoadFromFile(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

mPMMLLoadFromFile(int arg0, String arg)

Declaration

public String mPMMLLoadFromFile(int arg0, String arg)

Parameters

ТУРЕ	NAME	DESCRIPTION
int	arg0	
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

$s {\tt PMMLLoadedString()}$

Declaration

public String sPMMLLoadedString()

ТҮРЕ	DESCRIPTION
java.lang.String	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

sPMMLLoadedString(int arg0)

Declaration

public String sPMMLLoadedString(int arg0)

Parameters

ТУРЕ	NAME	DESCRIPTION
int	arg0	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

sPMMLLoadedFileName()

Declaration

public String sPMMLLoadedFileName()

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

sPMMLLoadedFileName(int arg0)

Declaration

public String sPMMLLoadedFileName(int arg0)

Parameters

ТУРЕ	NAME	DESCRIPTION
int	arg0	

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFromHDF5()

Declaration

public int mReadMapFromHDF5()

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$mReadMapFrom XSDS tring (String\ aInputSchema String)$

Declaration

public Document mReadMapFromXSDString(String aInputSchemaString)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	alnputSchemaString	

Returns

ТҮРЕ	DESCRIPTION
org.w3c.dom.Document	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFromXSDString(int arg0, String aInputSchemaString)

Declaration

public Document mReadMapFromXSDString(int arg0, String aInputSchemaString)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	
java.lang.String	alnputSchemaString	

ТҮРЕ	DESCRIPTION
org.w3c.dom.Document	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFromXSDFile(String aFileName)

Declaration

public Document mReadMapFromXSDFile(String aFileName)

Parameters

ТУРЕ	NAME	DESCRIPTION
java.lang.String	aFileName	

Returns

ТҮРЕ	DESCRIPTION
org.w3c.dom.Document	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFromXSDFile(int arg0, String aFileName)

Declaration

public Document mReadMapFromXSDFile(int arg0, String aFileName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	
java.lang.String	aFileName	

ТУРЕ		DI	DESCRIPTION		
			DECKIF HON		
org.w3c.dom.Document					
xceptions					
ТҮРЕ					CONDITION
WDataSci.WDS.WDSException					
nReadMapFromByteBuffer(ByteBuffer a	ra)				
eclaration	. 97				
public int mReadMapFromByteBuffer(Byte	eBuffer arg)				
Parameters					
ТҮРЕ		NAME		DES	CRIPTION
java.nio.ByteBuffer		arg			
Returns					
ТҮРЕ	DESCRIPTION				
int					
xceptions					
ТҮРЕ					CONDITION
WDataSci.WDS.WDSException					
nReadMapFromByteBuffer(int arg0, Byt	eBuffer arg)				
eclaration					
<pre>public String mReadMapFromByteBuffer(int arg0, ByteBuffer arg)</pre>					
arameters					
ТҮРЕ	NAME		DES	CRIPTION	
int	arg0				
java.nio.ByteBuffer arg					
eturns					
TYPE DESCRIPTION					

CONDITION

java.lang.String

Exceptions

TYPE

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFromByteBufferTest(ByteBuffer arg, String aFileName)

Declaration

public int mReadMapFromByteBufferTest(ByteBuffer arg, String aFileName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
java.lang.String	aFileName	

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFromByteBufferTest(int arg0, ByteBuffer arg, String aFileName)

Declaration

public int mReadMapFromByteBufferTest(int arg0, ByteBuffer arg, String aFileName)

Parameters

ТУРЕ	NAME	DESCRIPTION
int	arg0	
java.nio.ByteBuffer	arg	
java.lang.String	aFileName	

Returns

ТҮРЕ	DESCRIPTION
int	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mMapCheck(String aFileName)

Declaration

nuhlic	String	mMapCheck(String	aFileName`	١
public	2 CL THE	IIII.iahciieck (201 Tiig	ai TTEIVaille	,

Parameters

ТУРЕ	NAME	DESCRIPTION
java.lang.String	aFileName	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mMapCheck(int arg0, String aFileName)

Declaration

public String mMapCheck(int arg0, String aFileName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	
java.lang.String	aFileName	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

PMMLEvaluator()

Declaration

public Evaluator PMMLEvaluator()

ТҮРЕ	DESCRIPTION
org.jpmml.evaluator.Evaluator	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

PMMLEvaluator(int arg0)

Declaration

public Evaluator PMMLEvaluator(int arg0)

Parameters

ТУРЕ	NAME	DESCRIPTION
int	arg0	

Returns

ТҮРЕ	DESCRIPTION
org.jpmml.evaluator.Evaluator	

Exceptions

ТУРЕ	CONDITION
WDataSci.WDS.WDSException	

$PMMLE valuate (WDataSci.JniPMML.RecordSet\ a InputRecordSet,\ boolean\ b Any SystemOut,\ boolean\ b Verbose Output)$

Declaration

public List<Map<FieldName,Object>> PMMLEvaluate(WDataSci.JniPMML.RecordSet aInputRecordSet, boolean bAnySystemOut, boolean bVerboseOutput)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSet	alnputRecordSet	
boolean	bAnySystemOut	
boolean	bVerboseOutput	

ТУРЕ	DESCRIPTION
java.util.List <java.util.map<org.dmg.pmml.fieldname,java.lang.object>></java.util.map<org.dmg.pmml.fieldname,java.lang.object>	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

PMMLEvaluate(int arg0, WDataSci.JniPMML.RecordSet aInputRecordSet, boolean bAnySystemOut, boolean bVerboseOutput)

Declaration

public List<Map<FieldName,Object>> PMMLEvaluate(int arg0, WDataSci.JniPMML.RecordSet aInputRecordSet, boolean bAnySystemOut, boolean bVerboseOutput)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	
WDataSci.JniPMML.RecordSet	alnputRecordSet	
boolean	bAnySystemOut	
boolean	bVerboseOutput	

Returns

ТҮРЕ	DESCRIPTION
java.util.List <java.util.map<org.dmg.pmml.fieldname,java.lang.object>></java.util.map<org.dmg.pmml.fieldname,java.lang.object>	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$mEvaluate Record Set And Hold Results (Byte Buffer\ arg)$

Declaration

public int mEvaluateRecordSetAndHoldResults(ByteBuffer arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	

Returns

ТҮРЕ	DESCRIPTION
int	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mEvaluateRecordSetAndHoldResults(int arg0, ByteBuffer arg)

Declaration

public int mEvaluateRecordSetAndHoldResults(int arg0, ByteBuffer arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	
java.nio.ByteBuffer	arg	

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

nRowsOfOutputRecordSet()

Declaration

public int nRowsOfOutputRecordSet()

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТУРЕ	CONDITION	
WDataSci.WDS.WDSException		

nRowsOfOutputRecordSet(int arg0)

Declaration

public int nRowsOfOutputRecordSet(int arg0)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	

ТУРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

n Columns Of Output Record Set ()

Declaration

public int nColumnsOfOutputRecordSet()

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

nColumnsOfOutputRecordSet(int arg0)

Declaration

public int nColumnsOfOutputRecordSet(int arg0)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mWriteOutputMapToByteBuffer (ByteBuffer arg, int nColumns, int nColumnNameMaxByteLength)

Declaration

public String mWriteOutputMapToByteBuffer(ByteBuffer arg, int nColumns, int nColumnNameMaxByteLength)

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
int	nColumns	
int	nColumnNameMaxByteLength	

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$mPreRunPrepOutputMap (int\ nColumnNameMaxByteLength,\ int\ nStringMaxLength)$

Declaration

public int mPreRunPrepOutputMap(int nColumnNameMaxByteLength, int nStringMaxLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	nColumnNameMaxByteLength	
int	nStringMaxLength	

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$mPreRunPrepOutputMap (int\ arg0,\ int\ nColumnNameMaxByteLength,\ int\ nStringMaxLength)$

Declaration

public int mPreRunPrepOutputMap(int arg0, int nColumnNameMaxByteLength, int nStringMaxLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	

ТҮРЕ	NAME	DESCRIPTION
int	nColumnNameMaxByteLength	
int	nStringMaxLength	

ТУРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mPreRunWriteOutputMapToByteBuffer(ByteBuffer arg, int nColumnNameMaxByteLength, int nStringMaxLength)

Declaration

public String mPreRunWriteOutputMapToByteBuffer(ByteBuffer arg, int nColumnNameMaxByteLength, int nStringMaxLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
int	nColumnNameMaxByteLength	
int	nStringMaxLength	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mPreRunWriteOutputMapToByteBuffer(int arg0, ByteBuffer arg, int nColumnNameMaxByteLength, int nStringMaxLength)

Declaration

public String mPreRunWriteOutputMapToByteBuffer(int arg0, ByteBuffer arg, int nColumnNameMaxByteLength, int nStringMaxLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	
java.nio.ByteBuffer	arg	
int	nColumnNameMaxByteLength	
int	nStringMaxLength	

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

 $mWriteOutputMapToByteBuffer (int\ arg0,\ ByteBuffer\ arg,\ int\ nColumns,\ int\ nColumnNameMaxByteLength)$

Declaration

public String mWriteOutputMapToByteBuffer(int arg0, ByteBuffer arg, int nColumns, int nColumnNameMaxByteLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	
java.nio.ByteBuffer	arg	
int	nColumns	
int	nColumnNameMaxByteLength	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mWriteOutputRecordSetToByteBuffer(ByteBuffer arg, int nRows, long nRecordCoreLength, long nRecordVariableLength, long nCoreLength, long nTotalLength)

public int mWriteOutputRecordSetToByteBuffer(ByteBuffer arg, int nRows, long nRecordCoreLength, long
nRecordVariableLength, long nCoreLength, long nTotalLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
int	nRows	
long	nRecordCoreLength	
long	nRecordVariableLength	
long	nCoreLength	
long	nTotalLength	

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

mWriteOutputRecordSetToByteBuffer(int arg0, ByteBuffer arg, int nRows, long nRecordCoreLength, long nRecordVariableLength, long nCoreLength, long nTotalLength)

Declaration

public int mWriteOutputRecordSetToByteBuffer(int arg0, ByteBuffer arg, int nRows, long nRecordCoreLength, long
nRecordVariableLength, long nCoreLength, long nTotalLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	arg0	
java.nio.ByteBuffer	arg	
int	nRows	
long	nRecordCoreLength	
long	n Record Variable Length	
long	nCoreLength	

ТҮРЕ	NAME	DESCRIPTION
long	nTotalLength	

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

mEvaluateRecordSetWithFileOutput(ByteBuffer arg, String aFileName, String aFileType, int OutputHDF5FixedStringLength)

Declaration

public int mEvaluateRecordSetWithFileOutput(ByteBuffer arg, String aFileName, String aFileType, int
OutputHDF5FixedStringLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
java.lang.String	aFileName	
java.lang.String	аFileType	
int	OutputHDF5FixedStringLength	

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

 $mEvaluate Record Set With File Output (int\ arg0,\ Byte Buffer\ arg,\ String\ a File Name,\ String\ a File Type,\ int\ Output HDF5 Fixed String Length)$

Declaration

public int mEvaluateRecordSetWithFileOutput(int arg0, ByteBuffer arg, String aFileName, String aFileType, int
OutputHDF5FixedStringLength)

ТҮРЕ	NAME	DESCRIPTION
int	arg0	
java.nio.ByteBuffer	arg	
java.lang.String	aFileName	
java.lang.String	aFileType	
int	OutputHDF5FixedStringLength	

ТУРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mCmdArgsRecap()

Declaration

public static String mCmdArgsRecap()

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

mCmdRun(String arg)

Declaration

public static String mCmdRun(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

ТҮРЕ	DESCRIPTION
java.lang.String	

Class JniPMMLItem

Inheritance

java.lang.Object

JniPMMLItem

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class JniPMMLItem

Constructors

JniPMMLItem()

Declaration

public JniPMMLItem()

JniPMMLItem(Integer[] Handle)

Declaration

public JniPMMLItem(Integer[] Handle)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	Handle	

JniPMMLItem(int HandleMajor, int HandleMinor)

Declaration

public JniPMMLItem(int HandleMajor, int HandleMinor)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	HandleMajor	
int	HandleMinor	

Fields

HandleMajor

Declaration

protected Integer HandleMajor

Field Value

ТҮРЕ	DESCRIPTION
java.lang.Integer	

HandleMinor

Declaration

protected Integer HandleMinor

Field Value

ТҮРЕ	DESCRIPTION
java.lang.Integer	

ConfigMatter

Declaration

 ${\tt public} \ \ {\tt WDataSci.JniPMML.JniPMMLItem.} \underline{\hspace{0.5cm} {\tt ConfigMatter}} \ \ {\tt ConfigMatter}$

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.JniPMMLItemConfigMatter	

PMMLMatter

Declaration

public WDataSci.JniPMML.JniPMMLItem.__PMMLMatter PMMLMatter

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.JniPMMLItemPMMLMatter	

InputMatter

Declaration

 ${\tt public} \ {\tt WDataSci.JniPMML.JniPMMLItem.} \underline{\quad } {\tt InputMatter} \ {\tt InputMatter}$

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.JniPMMLItemInputMatter	

$\\Output \\Matter$

Declaration

 ${\tt public} \ \ {\tt WDataSci.JniPMML.JniPMMLItem.} \underline{\hspace{0.5cm} {\tt OutputMatter}} \ \ {\tt OutputMatter}$

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMMLJniPMMLItemOutputMatter	

Methods

PreDispose()

Declaration

public void PreDispose()

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

Reset()

Declaration

public void Reset()

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

Dispose()

Declaration

public void Dispose()

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

PMMLLoadFromString(String arg)

Declaration

public String PMMLLoadFromString(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

PMMLLoadFromFile(String arg)

Declaration

public String PMMLLoadFromFile(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
java.lang.Exception	

PMMLLoadedString()

Declaration

public String PMMLLoadedString()

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

PMMLLoadedFileName()

Declaration

public String PMMLLoadedFileName()

Returns

TY	/PE	DESCRIPTION
jav	va.lang.String	

PMMLDataFields()

Declaration

public DataField[] PMMLDataFields()

Returns

ТҮРЕ	DESCRIPTION

TYPE	CONDITION
WDataSci.WDS.WDSException	

Declaration

public FieldName[] PMMLDataFieldNames()

Returns

ТУРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

PMMLDataFieldStringNames()

Declaration

public String[] PMMLDataFieldStringNames()

Returns

ТУРЕ	DESCRIPTION

Exceptions

ТУРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFromHDF5()

Declaration

public int mReadMapFromHDF5()

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$mReadMapFrom XSDS tring (String\ aInputSchema String)$

Declaration

public Document mReadMapFromXSDString(String aInputSchemaString)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	alnputSchemaString	

Returns

ТҮРЕ	DESCRIPTION
org.w3c.dom.Document	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFromXSDFile(String aFileName)

Declaration

public Document mReadMapFromXSDFile(String aFileName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	aFileName	

Returns

ТҮРЕ	DESCRIPTION
org.w3c.dom.Document	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$mReadMapFromByteBuffer (ByteBuffer\ arg)$

Declaration

public int mReadMapFromByteBuffer(ByteBuffer arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	

ТҮРЕ	DESCRIPTION		
int			
exceptions			
ТҮРЕ		CONDITION	
WDataSci.WDS.WDSException			
nReadMapFromByteBufferTest(Byt	eBuffer arg, String aFileName)		

Parameters

ТУРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
java.lang.String	aFileName	

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mMapCheck(String aFileName)

Declaration

public String mMapCheck(String aFileName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	aFileName	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

ТУРЕ	CONDITION

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

PMMLEvaluator()

Declaration

public Evaluator PMMLEvaluator()

Returns

ТҮРЕ	DESCRIPTION
org.jpmml.evaluator.Evaluator	

PMMLEvaluate(WDataSci.JniPMML.RecordSet aInputRecordSet, boolean bAnySystemOut, boolean bVerboseOutput)

Declaration

public List<Map<FieldName,Object>> PMMLEvaluate(WDataSci.JniPMML.RecordSet aInputRecordSet, boolean bAnySystemOut, boolean bVerboseOutput)

Parameters

ТУРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSet	alnputRecordSet	
boolean	bAnySystemOut	
boolean	bVerboseOutput	

Returns

ТҮРЕ	DESCRIPTION
java.util.List <java.util.map<org.dmg.pmml.fieldname,java.lang.object>></java.util.map<org.dmg.pmml.fieldname,java.lang.object>	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$mEvaluateRecordSetAndHoldResults(ByteBuffer\ arg)$

Declaration

public int mEvaluateRecordSetAndHoldResults(ByteBuffer arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

nRowsOfOutputRecordSet()

Declaration

public int nRowsOfOutputRecordSet()

Returns

ТҮРЕ	DESCRIPTION
int	

n Columns Of Output Record Set ()

Declaration

public int nColumnsOfOutputRecordSet()

Returns

ТУРЕ	DESCRIPTION
int	

$mPreRunPrepOutputMap (int\ nColumnNameMaxByteLength,\ int\ nStringMaxLength)$

Declaration

public int mPreRunPrepOutputMap(int nColumnNameMaxByteLength, int nStringMaxLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	nColumnNameMaxByteLength	
int	nStringMaxLength	

Returns

ТҮРЕ	DESCRIPTION
int	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mPreRunWriteOutputMapToByteBuffer(ByteBuffer arg, int nColumnNameMaxByteLength, int nStringMaxLength)

Declaration

public String mPreRunWriteOutputMapToByteBuffer(ByteBuffer arg, int nColumnNameMaxByteLength, int nStringMaxLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
int	nColumnNameMaxByteLength	
int	nStringMaxLength	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mWriteOutputMapToByteBuffer (ByteBuffer arg, int nColumns, int nColumnNameMaxByteLength)

Declaration

public String mWriteOutputMapToByteBuffer(ByteBuffer arg, int nColumns, int nColumnNameMaxByteLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
int	nColumns	
int	nColumnNameMaxByteLength	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mWriteOutputRecordSetToByteBuffer (ByteBuffer arg, int nRows, long nRecordCoreLength, long nRecordVariableLength, long nTotalLength)

Declaration

public int mWriteOutputRecordSetToByteBuffer(ByteBuffer arg, int nRows, long nRecordCoreLength, long
nRecordVariableLength, long nCoreLength, long nTotalLength)

Parameters

ТУРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
int	nRows	
long	nRecordCoreLength	
long	nRecordVariableLength	
long	nCoreLength	
long	nTotalLength	

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

mEvaluate Record Set With File Output (Byte Buffer arg, String a File Name, String a File Type, int Output HDF5 Fixed String Length)

Declaration

public int mEvaluateRecordSetWithFileOutput(ByteBuffer arg, String aFileName, String aFileType, int OutputHDF5FixedStringLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
java.lang.String	aFileName	
java.lang.String	аFileType	
int	OutputHDF5FixedStringLength	

ТҮРЕ	DESCRIPTION
int	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

Class JniPMMLItem.__ConfigMatter

n	h	0	ri	+	-	n	-	\sim

java.lang.Object

JniPMMLItem.__ConfigMatter

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class JniPMMLItem.__ConfigMatter

Constructors

__ConfigMatter()

Declaration

public __ConfigMatter()

Fields

InternalString

Declaration

public String InternalString

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

Class JniPMMLItem.__InputMatter

Inheritance

java.lang.Object

JniPMMLItem.__InputMatter

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class JniPMMLItem.__InputMatter

Constructors

__InputMatter()

Declaration

public __InputMatter()

Fields

RecordSetMD

Declaration

public WDataSci.JniPMML.RecordSetMD RecordSetMD

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	

RecordSet

Declaration

public WDataSci.JniPMML.RecordSet RecordSet

Field Value

ТҮРЕ	DESCRIPTION	
WDataSci.JniPMML.RecordSet		

_XSDDoc

Declaration

public Document _XSDDoc

Field Value

ТҮРЕ	DESCRIPTION
org.w3c.dom.Document	

_XSDFileName

Declaration

public String _XSDFileName	
Field Value	
ТҮРЕ	DESCRIPTION

_XSDString

java.lang.String

Declaration

public String _XSDString

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

Methods

Dispose()

Declaration

public void Dispose()

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

Class JniPMMLItem.__OutputMatter

Inheritance

java.lang.Object

JniPMMLItem.__OutputMatter

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class JniPMMLItem.__OutputMatter

Constructors

__OutputMatter()

Declaration

public __OutputMatter()

Fields

RecordSetMD

Declaration

public WDataSci.JniPMML.RecordSetMD RecordSetMD

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	

RecordSet

Declaration

public WDataSci.JniPMML.RecordSet RecordSet

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.RecordSet	

Methods

Dispose()

Declaration

public void Dispose()

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

Class JniPMMLItem.__PMMLMatter

Inheritance

java.lang.Object

JniPMMLItem.__PMMLMatter

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class JniPMMLItem.__PMMLMatter

Constructors

__PMMLMatter()

Declaration

public __PMMLMatter()

Fields

Doc

Declaration

protected PMML Doc

Field Value

ТҮРЕ	DESCRIPTION
org.dmg.pmml.PMML	

Evaluator

Declaration

protected ModelEvaluator Evaluator

Field Value

ТҮРЕ	DESCRIPTION
org.jpmml.evaluator.ModelEvaluator	

_XMLString

Declaration

public String _XMLString

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

_XMLFileName

Declaration

public String XMLFileN	ame
------------------------	-----

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

Methods

Dispose()

Declaration

public void Dispose()

Class RecordSet

Inheritance

java.lang.Object

RecordSet

Namespace:

Assembly: .dll

Syntax

public class RecordSet

Constructors

RecordSet()

Declaration

public RecordSet()

RecordSet(List<Map<FieldName,Object>> _Records)

Declaration

public RecordSet(List<Map<FieldName,Object>> _Records)

Parameters

ТУРЕ	NAME	DESCRIPTION
java.util.List <java.util.map<org.dmg.pmml.fieldname,java.lang.object>></java.util.map<org.dmg.pmml.fieldname,java.lang.object>	_Records	

Fields

Records

Declaration

public List<Map<FieldName,Object>> Records

Field Value

ТҮРЕ	DESCRIPTION
java.util.List <java.util.map<org.dmg.pmml.fieldname,java.lang.object>></java.util.map<org.dmg.pmml.fieldname,java.lang.object>	

Records_Orig

Declaration

public List<Object[]> Records_Orig

Field Value

ТҮРЕ	DESCRIPTION
java.util.List <java.lang.object[]></java.lang.object[]>	

isInput

Declaration

public Boolean isInput

Field Value

ТҮРЕ	DESCRIPTION
java.lang.Boolean	

Methods

Dispose()

Declaration

public void Dispose()

cAsInput()

Declaration

public WDataSci.JniPMML.RecordSet cAsInput()

Returns

ТҮРЕ	DESCRIPTION

cAsOutput()

Declaration

public WDataSci.JniPMML.RecordSet cAsOutput()

Returns

ТУРЕ	DESCRIPTION

cAsOutput(List<Map<FieldName,Object>> _Records)

Declaration

public WDataSci.JniPMML.RecordSet cAsOutput(List<Map<FieldName,Object>> _Records)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.util.List <java.util.map<org.dmg.pmml.fieldname,java.lang.object>></java.util.map<org.dmg.pmml.fieldname,java.lang.object>	_Records	

Returns

ТҮРЕ	DESCRIPTION

isEmpty()

Declaration

public Boolean isEmpty()

ТҮРЕ	DESCRIPTION
java.lang.Boolean	

$mReadRecordSet(WDataSci.JniPMML.RecordSetMD\ aRecordSetMD)$

Declaration

public WDataSci.JniPMML.RecordSet mReadRecordSet(WDataSci.JniPMML.RecordSetMD)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

mWriteRecordSet(WDataSci.JniPMML.RecordSetMD aOutputRecordSetMD, WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet)

Declaration

public WDataSci.JniPMML.RecordSet mWriteRecordSet(WDataSci.JniPMML.RecordSetMD aOutputRecordSetMD,
WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aOutputRecordSetMD	
WDataSci.JniPMML.RecordSetMD	aInputRecordSetMD	
	alnputRecordSet	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

ТҮРЕ	CONDITION
java.lang.Exception	

Class RecordSetMD

Inheritance

java.lang.Object

RecordSetMD

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class RecordSetMD

Constructors

$Record Set MD (WData Sci. Jni PMML. Record Set MDE nums. eMode\ arg)$

Declaration

public RecordSetMD(WDataSci.JniPMML.RecordSetMDEnums.eMode arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMDEnums.eMode	arg	

Fields

Mode

Declaration

public WDataSci.JniPMML.RecordSetMDEnums.eMode Mode

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.RecordSetMDEnums.eMode	

Type

Declaration

public WDataSci.JniPMML.RecordSetMDEnums.eType Type

Field Value

ТУРЕ	DESCRIPTION
WDataSci.JniPMML.RecordSetMDEnums.eType	

SchemaType

Declaration

public WDataSci.JniPMML.RecordSetMDEnums.eSchemaType SchemaType

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.RecordSetMDEnums.eSchemaType	

Column

Declaration

public WDataSci.JniPMML.FieldMD[] Column

Field Value

ТУРЕ	DESCRIPTION

FileMatter

Declaration

 ${\color{blue} \textbf{public}} \ \textbf{WDataSci.JniPMML.WranglerFlatFile} \ \textbf{FileMatter}$

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerFlatFile	

SchemaMatter

Declaration

 ${\tt public\ WDataSci.JniPMML.RecordSetMD.} \underline{\hspace{0.5cm}} {\tt SchemaMatter\ SchemaMatter}$

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.RecordSetMDSchemaMatter	

ModeMatter

Declaration

 ${\tt public} \ \ {\tt WDataSci.JniPMML.RecordSetMD.} \underline{\ \ } {\tt ModeMatter} \ \ {\tt ModeMatter}$

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.RecordSetMDModeMatter	

HDF5Matter

Declaration

public WDataSci.JniPMML.WranglerHDF5 HDF5Matter

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerHDF5	

DBBMatter

Declaration

public WDataSci.JniPMML.WranglerDBB DBBMatter

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerDBB	

Default Header Max String Length

Declaration

public static long DefaultHeaderMaxStringLength

Field Value

ТУРЕ	DESCRIPTION
long	

Default Header Max String By te Length

Declaration

 $\verb"public" static long DefaultHeaderMaxStringByteLength"$

Field Value

ТҮРЕ	DESCRIPTION
long	

Default Max String Length

Declaration

public static long DefaultMaxStringLength

Field Value

ТҮРЕ	DESCRIPTION
long	

Default Max String By te Length

Declaration

public static long DefaultMaxStringByteLength

Field Value

ТҮРЕ	DESCRIPTION		
long			
Methods			
Dispose()			
Declaration			
<pre>public void Dispose()</pre>			
exceptions			
ТҮРЕ		CONDITION	
WDataSci.WDS.WDSException			
java.lang.Exception			
cUsing Cmd Arguments (WDa	taSci.JniPMML.CmdArgs args)		
Declaration			

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.CmdArgs	args	

ТҮРЕ	DESCRIPTION	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

nColumns()

Declaration

public int nColumns()

Returns

ТҮРЕ	DESCRIPTION
int	

$n Columns (WDataSci.JniPMML.FieldMDEnums.eRTyp\ arg)$

Declaration

public int	nColumns(WDataSci	.JniPMML.FieldMDEnums	eRTvp arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.FieldMDEnums.eRTyp	arg	

Returns

ТҮРЕ	DESCRIPTION
int	

cFromFile(String aFileName)

Declaration

public WDataSci.JniPMML.RecordSetMD cFromFile(String aFileName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	aFileName	

Returns

ТҮРЕ	DESCRIPTION

cToFile(String aFileName)

Declaration

public WDataSci.JniPMML.RecordSetMD cToFile(String aFileName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	aFileName	

Returns

ТУРЕ	DESCRIPTION

$cAs (WDataSci.JniPMML.RecordSetMDEnums.eType\ arg,\ WDataSci.JniPMML.RecordSetMDEnums.eSchemaType\ schema)$

Declaration

public WDataSci.JniPMML.RecordSetMD cAs(WDataSci.JniPMML.RecordSetMDEnums.eType arg, WDataSci.JniPMML.RecordSetMDEnums.eSchemaType schema)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMDEnums.eType	arg	
WDataSci.JniPMML.RecordSetMDEnums.eSchemaType	schema	

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

cAs(WDataSci.JniPMML.RecordSetMDEnums.eType arg, WDataSci.JniPMML.RecordSetMDEnums.eSchemaType schema, Boolean isFileName, String schemadetails)

Declaration

public WDataSci.JniPMML.RecordSetMD cAs(WDataSci.JniPMML.RecordSetMDEnums.eType arg,
WDataSci.JniPMML.RecordSetMDEnums.eSchemaType schema, Boolean isFileName, String schemadetails)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMDEnums.eType	arg	
WDataSci.JniPMML.RecordSetMDEnums.eSchemaType	schema	
java.lang.Boolean	isFileName	
java.lang.String	schemadetails	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

$cAs (WDataSci.JniPMML.RecordSetMDEnums.eType\ arg)$

Declaration

public WDataSci.JniPMML.RecordSetMD cAs(WDataSci.JniPMML.RecordSetMDEnums.eType arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMDEnums.eType	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

cWithHeaderRow()

Declaration

public WDataSci.JniPMML.RecordSetMD cWithHeaderRow()

Returns

ТҮРЕ	DESCRIPTION

$cWith Composite Field Name DIm (String\ a Composite Field Name DIm)$

Declaration

 ${\tt public} \ \ {\tt WDataSci.JniPMML.RecordSetMD} \ \ {\tt cWithCompositeFieldNameDlm(String} \ \ {\tt aCompositeFieldNameDlm})$

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	aCompositeFieldNameDlm	

Returns

ТҮРЕ	DESCRIPTION

cAsDImFile(String aFileName)

Declaration

public WDataSci.JniPMML.RecordSetMD cAsDlmFile(String aFileName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	aFileName	

ТҮРЕ	DESCRIPTION

cAsDImFile(String aFileName, String dlm)

Declaration

public WDataSci.JniPMML.RecordSetMD cAsDlmFile(String aFileName, String dlm)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	aFileName	
java.lang.String	dlm	

Returns

ТҮРЕ	DESCRIPTION

cWithOutRepeatInputSet()

Declaration

public WDataSci.JniPMML.RecordSetMD cWithOutRepeatInputSet()

Returns

ТҮРЕ	DESCRIPTION

cRepeatInputSet()

Declaration

public WDataSci.JniPMML.RecordSetMD cRepeatInputSet()

Returns

ТҮРЕ	DESCRIPTION

cRepeatInputSetWithSuffix(String aInputFieldSuffix)

Declaration

public WDataSci.JniPMML.RecordSetMD cRepeatInputSetWithSuffix(String aInputFieldSuffix)

Parameters

ТУРЕ	NAME	DESCRIPTION
java.lang.String	aInputFieldSuffix	

ТҮРЕ	DESCRIPTION

$cRepeatInputSetWithSuffix (String\ aInputFieldSuffix,\ String\ aCompositeFieldNameDlm)$

Declaration

public WDataSci.JniPMML.RecordSetMD cRepeatInputSetWithSuffix(String aInputFieldSuffix, String aCompositeFieldNameDlm)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	alnputFieldSuffix	
java.lang.String	a Composite Field Name Dlm	

Returns

ТҮРЕ	DESCRIPTION

cWithDlm(String arg)

Declaration

public WDataSci.JniPMML.RecordSetMD cWithDlm(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

cWithDelimiter(String arg)

Declaration

public WDataSci.JniPMML.RecordSetMD cWithDelimiter(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

ТУРЕ	DESCRIPTION		
ventions			
xceptions TYPE		CONDITION	
WDataSci.WDS.WDSException		Colonial	
HeaderStringMaxLength()			
<pre>public long nHeaderStringMaxLength()</pre>			
eturns			
TYPE	DESCRIPTION		
long			
n Header Byte Max Length () Declaration			
public long nHeaderByteMaxLength()			
leturns			
ТҮРЕ	DESCRIPTION		
long			
s Mode Valid ()			
Declaration			
<pre>public boolean isModeValid()</pre>			
Returns			
ТҮРЕ	DESCRIPTION		
boolean			
xceptions			
ТҮРЕ		CONDITION	
WDataSci.WDS.WDSException			

cSetHeaderBufferAs(WDataSci.JniPMML.DBB arg, int nRecords, int nRecordCoreLength, in nRecordVariableLength)

Declaration

public WDataSci.JniPMML.RecordSetMD cSetHeaderBufferAs(WDataSci.JniPMML.DBB arg, int nRecords, int
nRecordCoreLength, int nRecordVariableLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.DBB	arg	
int	nRecords	
int	nRecordCoreLength	
int	nRecordVariableLength	

Returns

ТУРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

$cSetHeaderBufferFrom (WDataSci.JniPMML.DBB\ arg)$

Declaration

public WDataSci.JniPMML.RecordSetMD cSetHeaderBufferFrom(WDataSci.JniPMML.DBB arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.DBB	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

 $cSet Header Buffer As (Byte Buffer\ arg,\ int\ nRecord Core Length,\ int\ nRecord Variable Length)$

Declaration

public WDataSci.JniPMML.RecordSetMD cSetHeaderBufferAs(ByteBuffer arg, int nRecords, int nRecordCoreLength,
int nRecordVariableLength)

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
int	nRecords	
int	nRecordCoreLength	
int	nRecordVariableLength	

ТУРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

cSetHeaderBufferFrom(ByteBuffer arg)

Declaration

public WDataSci.JniPMML.RecordSetMD cSetHeaderBufferFrom(ByteBuffer arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	

Returns

ТУРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

cSetRecordSetBufferAs(ByteBuffer arg, long nRecords, long nRecordCoreLength, long nRecordVariableLength, long nCoreLength, long nTotalLength)

Declaration

public WDataSci.JniPMML.RecordSetMD cSetRecordSetBufferAs(ByteBuffer arg, long nRecords, long
nRecordCoreLength, long nRecordVariableLength, long nCoreLength, long nTotalLength)

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	
long	nRecords	
long	nRecordCoreLength	
long	nRecordVariableLength	
long	nCoreLength	
long	nTotalLength	

ТУРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

${\tt cSetRecordSetBufferAs(ByteBuffer\ arg)}$

Declaration

public WDataSci.JniPMML.RecordSetMD cSetRecordSetBufferAs(ByteBuffer arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

cSetRecordSetBufferFrom(ByteBuffer arg)

Declaration

public WDataSci.JniPMML.RecordSetMD cSetRecordSetBufferFrom(ByteBuffer arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

cSetRecordSetBufferAs(WDataSci.JniPMML.DBB arg, long nRecords, long nRecordCoreLength, long nRecordVariableLength, long nCoreLength, long nTotalLength)

Declaration

public WDataSci.JniPMML.RecordSetMD cSetRecordSetBufferAs(WDataSci.JniPMML.DBB arg, long nRecords, long
nRecordCoreLength, long nRecordVariableLength, long nCoreLength, long nTotalLength)

Parameters

ТУРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.DBB	arg	
long	nRecords	
long	nRecordCoreLength	
long	nRecordVariableLength	
long	nCoreLength	
long	nTotalLength	

Returns

Т	ҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

Declaration

public WDataSci.JniPMML.RecordSetMD cSetRecordSetBufferAs(WDataSci.JniPMML.DBB arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.DBB	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

$cSetRecordSetBufferFrom (WDataSci.JniPMML.DBB\ arg)$

Declaration

public WDataSci.JniPMML.RecordSetMD cSetRecordSetBufferFrom(WDataSci.JniPMML.DBB arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.DBB	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

$cWith Record Set Element Name (String\ arg)$

Declaration

public WDataSci.JniPMML.RecordSetMD cWithRecordSetElementName(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

ТҮРЕ	DESCRIPTION

cWithRecordSetAndRecordElementNames(String arg, String arg1)

Declaration

public WDataSci.JniPMML.RecordSetMD cWithRecordSetAndRecordElementNames(String arg, String arg1)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	
java.lang.String	arg1	

Returns

ТҮРЕ	DESCRIPTION

cWithRecordElementName(String arg)

Declaration

public WDataSci.JniPMML.RecordSetMD cWithRecordElementName(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION

cWithDataSetName(String arg)

Declaration

public WDataSci.JniPMML.RecordSetMD cWithDataSetName(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

$mCopyColumnsFrom (WDataSci.JniPMML.RecordSetMD\ arg)$

Declaration

public WDataSci.JniPMML.RecordSetMD mCopyColumnsFrom(WDataSci.JniPMML.RecordSetMD arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

Returns

ТУРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

Equals(WDataSci.JniPMML.RecordSetMD arg, boolean blgnoreMode)

Declaration

public boolean Equals(WDataSci.JniPMML.RecordSetMD arg, boolean bIgnoreMode)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	
boolean	blgnoreMode	

Returns

ТУРЕ	DESCRIPTION
boolean	

mReadMapFor(WDataSci.JniPMML.JniPMMLItem aJniPMMLItem, PrintWriter pw, boolean bFillDictionaryNames)

Declaration

public WDataSci.JniPMML.RecordSetMD mReadMapFor(WDataSci.JniPMML.JniPMMLItem aJniPMMLItem, PrintWriter pw, boolean bFillDictionaryNames)

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.JniPMMLItem	aJniPMMLItem	
java.io.PrintWriter	pw	
boolean	bFillDictionaryNames	

ТҮРЕ	:	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mColumnConsistency()

Declaration

public WDataSci.JniPMML.RecordSetMD mColumnConsistency()

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mPrepForOutput(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.JniPMMLItem aJniPMML, List<Map<FieldName,Object>> Results)

Declaration

public WDataSci.JniPMML.RecordSetMD mPrepForOutput(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD,
WDataSci.JniPMML.JniPMMLItem aJniPMML, List<Map<FieldName,Object>> Results)

Parameters

ТУРЕ	NAME	DESCRIPTION
	alnputRecordSetMD	
WDataSci.JniPMML.JniPMMLItem	aJniPMML	
java.util.List <java.util.map<org.dmg.pmml.fieldname.java.lang.object>></java.util.map<org.dmg.pmml.fieldname.java.lang.object>	Results	

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
java.lang.Exception	

$mUpdateWithPMMLSchema(WDataSci.JniPMML.JniPMMLItem\ aJniPMML)$

Declaration

public void mUpdateWithPMMLSchema(WDataSci.JniPMML.JniPMMLItem aJniPMML)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMMLJniPMMLItem	aJniPMML	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mWriteMapToBuffer()

Declaration

public int mWriteMapToBuffer()

Returns

ТҮРЕ	DESCRIPTION
int	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$mWriteMapToBuffer (ByteBuffer\ arg)$

Declaration

public int mWriteMapToBuffer(ByteBuffer arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.nio.ByteBuffer	arg	

ТҮРЕ	DESCRIPTION
int	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

Class RecordSetMD.__ModeMatter

Inheritance

java.lang.Object

 $Record Set MD._Mode Matter$

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class RecordSetMD.__ModeMatter

Constructors

__ModeMatter()

Declaration

public __ModeMatter()

Fields

nInputFields

Declaration

public int nInputFields

Field Value

ТҮРЕ	DESCRIPTION
int	

bRepeatInputFields

Declaration

public boolean bRepeatInputFields

Field Value

ТҮРЕ	DESCRIPTION
boolean	

CompositeNameDlm

Declaration

public String CompositeNameDlm

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

${\sf CompositeInputNameSuffix}$

Declaration

<pre>public String CompositeInputNameSuffix</pre>		
Field Value		
ТУРЕ	DESCRIPTION	
java.lang.String		
OutputMaxStringLength		

Declaration

public int OutputMaxStringLength

Field Value

ТҮРЕ	DESCRIPTION
int	

Methods

Equals(WDataSci.JniPMML.RecordSetMD.__ModeMatter arg)

Declaration

public boolean Equals(WDataSci.JniPMML.RecordSetMD.__ModeMatter arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

ТҮРЕ	DESCRIPTION
boolean	

Class RecordSetMD.__SchemaMatter

Inheritance

WDataSci.JniPMML.WranglerXSD

RecordSetMD.__SchemaMatter

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class RecordSetMD.__SchemaMatter extends WDataSci.JniPMML.WranglerXSD

Constructors

__SchemaMatter()

Declaration

public __SchemaMatter()

Fields

InputSchemaFileName

Declaration

public String InputSchemaFileName

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

InputSchemaString

Declaration

public String InputSchemaString

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

InputSchema

Declaration

public Document InputSchema

Field Value

ТҮРЕ	DESCRIPTION
org.w3c.dom.Document	

RecordSetElementName

Declaration

<pre>public String RecordSetElementName</pre>	
Field Value	
ТҮРЕ	DESCRIPTION

Record Element Name

java.lang.String

Declaration

public String RecordElementName

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

Methods

$Equals (WDataSci.JniPMML.RecordSetMD._SchemaMatter\ arg)$

Declaration

public boolean Equals(WDataSci.JniPMML.RecordSetMD.__SchemaMatter arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

Returns

ТҮРЕ	DESCRIPTION
boolean	

Dispose()

Declaration

public void Dispose()

Class RecordSetMDEnums

Inheritance

java.lang.Object

Record Set MD Enums

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class RecordSetMDEnums

Constructors

RecordSetMDEnums()

Declaration

public RecordSetMDEnums()

Enum RecordSetMDEnums.eMode

Namespace: Assembly: .dll

Syntax

public enum RecordSetMDEnums.eMode extends Enum<WDataSci.JniPMML.RecordSetMDEnums.eMode>

Fields

NAME	DESCRIPTION
Unknown	
Input	
Output	
Internal	

Methods

NAME	DESCRIPTION
values()	
valueOf(String name)	
Equals(WDataSci.JniPMML.RecordSetMDEnums.eMode arg)	
bIn(WDataSci.JniPMML.RecordSetMDEnums.eMode[] args)	
toString()	

Enum RecordSetMDEnums.eSchemaType

Namespace:
Assembly: .dll

Syntax

public enum RecordSetMDEnums.eSchemaType extends Enum<WDataSci.JniPMML.RecordSetMDEnums.eSchemaType>

Fields

NAME	DESCRIPTION
Unknown	
XSD	
XML	
JSON	
HDF5	
DBB	
RecordSetMD	
SQL	
NamingConvention	

Methods

NAME	DESCRIPTION
values()	
valueOf(String name)	
bln(WDataSci.JniPMML.RecordSetMDEnums.eSchemaType[] args)	
FromInt(int arg)	
FromAlias(String arg)	
toString()	

Enum RecordSetMDEnums.eType

Namespace:

Assembly: .dll

Syntax

public enum RecordSetMDEnums.eType extends Enum<WDataSci.JniPMML.RecordSetMDEnums.eType>

Fields

NAME	DESCRIPTION
Unknown	
Dlm	
CSV	
TXT	
HDF5	
DBB	
XML	
JSON	
SQL	

Methods

NAME	DESCRIPTION
values()	
valueOf(String name)	
isFlatFile()	
isFile()	
FromInt(int arg)	
FromAlias(String arg)	
toString()	
bln(WDataSci.JniPMML.RecordSetMDEnums.eType[] args)	
bln(String[] arg)	

Class Util

Inheritance

java.lang.Object

Util

Namespace:

Assembly: .dll

Syntax

public class Util

Constructors

Util()

Declaration

public Util()

Methods

RecordSingleName(String arg)

Declaration

public static String RecordSingleName(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

Returns

ТУРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТУРЕ	CONDITION
WDataSci.WDS.WDSException	

RecordSetElementName(Document xInputSchema)

RecordSetElementName - Returns the name attribute of the RecordSet element of the InputSchema

The RecordSet element of the input schema contains zero or more single rows of data fields.

Unless specified elsewhere, the convention used here is a singular term for a single row (such as Record, Row, Vector, or Observation), and a plural form for the container of multiple rows (such as RecordSet, Records, Rows or RowSet).

The schema of the data fields provides the cross map between the input data set and the PMML data dictionary. The input fields can queried from the InputSchema under the assumption that the XPath query follows the concept:

/RecordSet/Record/Fields

The RecordSetElementName function extracts the corresponding name from the InputSchema.

When not provided as an input, the convention used here is to have a schema which is consistent with what can be easily used for the exportable XMLMap of a ListObject in Excel.

A simple form of such an XML has the pattern:

```
> > > value1 > > > value2 > > > value3 > >
```

However, the XMLSchema associated with a simple structure looks like:

```
<?xml version="1.0"?>
```

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xi="http://www.w3.org/2001/Xlnclude"
attributeFormDefault="unqualified" elementFormDefault="qualified">

```
<xs:element name="RecordSet">

<xs:complexType> <xs:sequence>

<xs:element name="Record" maxOccurs="unbounded">

<xs:complexType> <xs:sequence>

<xs:element name="Field1" type="?"/>

<xs:element name="Field2" type="?"/>

<xs:element name="Field3" type="?"/>

</xs:sequence> </xs:complexType>

</xs:sequence> </xs:complexType>

</xs:element>
```

</xs:schema>

Declaration

```
public static String RecordSetElementName(Document xInputSchema)
```

Parameters

ТҮРЕ	NAME	DESCRIPTION
org.w3c.dom.Document	xInputSchema	

ТҮРЕ	DESCRIPTION
java.lang.String	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

Class WranglerDBB

Inheritance

java.lang.Object

WranglerDBB

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class WranglerDBB

Constructors

WranglerDBB()

Declaration

public WranglerDBB()

Fields

Header

Declaration

public WDataSci.JniPMML.WranglerDBB.__DBBMatter Header

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerDBBDBBMatter	

RecordSet

Declaration

public WDataSci.JniPMML.WranglerDBB.__DBBMatter RecordSet

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerDBBDBBMatter	

Methods

Dispose()

Declaration

public void Dispose()

isValid()

Declaration

public boolean isValid()

ТУРЕ	DESCRIPTION
boolean	

TY	/РЕ	CONDITION
W	/DataSci.WDS.WDSException	
jav	va.lang.Exception	

$cSet Header Buffer As (WData Sci. JniPMML. DBB\ arg,\ int\ nRecordS,\ int\ nRecordCore Length,\ int\ nRecord Variable Length)$

Declaration

public WDataSci.JniPMML.WranglerDBB cSetHeaderBufferAs(WDataSci.JniPMML.DBB arg, int nRecords, int nRecordCoreLength, int nRecordVariableLength)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.DBB	arg	
int	nRecords	
int	nRecordCoreLength	
int	nRecordVariableLength	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

cSetHeaderBufferFrom(WDataSci.JniPMML.DBB arg)

Declaration

public WDataSci.JniPMML.WranglerDBB cSetHeaderBufferFrom(WDataSci.JniPMML.DBB arg)

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.DBB	arg	

ТҮРЕ	DESCRIPTION

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

cSetRecordSetBufferAs(WDataSci.JniPMML.DBB arg)

Declaration

public WDataSci.JniPMML.WranglerDBB cSetRecordSetBufferAs(WDataSci.JniPMML.DBB arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.DBB	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

cSetRecordSetBufferAs(WDataSci.JniPMML.DBB arg, long nRecords, long nRecordCoreLength, long nRecordVariableLength, long nCoreLength, long nTotalLength)

Declaration

public WDataSci.JniPMML.WranglerDBB cSetRecordSetBufferAs(WDataSci.JniPMML.DBB arg, long nRecords, long
nRecordCoreLength, long nRecordVariableLength, long nCoreLength, long nTotalLength)

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.DBB	arg	
long	nRecords	
long	nRecordCoreLength	
long	nRecordVariableLength	
long	nCoreLength	

ТҮРЕ	NAME	DESCRIPTION
long	nTotalLength	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

$cSetRecordSetBufferFrom (WDataSci.JniPMML.DBB\ arg)$

Declaration

public WDataSci.JniPMML.WranglerDBB cSetRecordSetBufferFrom(WDataSci.JniPMML.DBB arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.DBB	arg	

Returns

ТҮРЕ	DESCRIPTION

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

mReadMap(WDataSci.JniPMML.RecordSetMD aRecordSetMD, WDataSci.JniPMML.JniPMMLItem aJniPMML, PrintWriter pw, boolean bFillDictionaryNames)

Declaration

public void mReadMap(WDataSci.JniPMML.RecordSetMD aRecordSetMD, WDataSci.JniPMML.JniPMMLItem aJniPMML,
PrintWriter pw, boolean bFillDictionaryNames)

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	
WDataSci.JniPMMLJniPMMLItem	aJniPMML	

ТҮРЕ	NAME	DESCRIPTION	
java.io.PrintWriter	pw		
boolean	bFillDictionaryNames		

ТҮРЕ		CONDITION
WDataSo	ci.WDS.WDSException	

$mReadRecordSet(WDataSci.JniPMML.RecordSetMD\ aInputRecordSetMD,\ WDataSci.JniPMML.RecordSet\ aInputRecordSet,\ PrintWriter\ pw)$

Declaration

public void mReadRecordSet(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet
aInputRecordSet, PrintWriter pw)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	alnputRecordSetMD	
WDataSci.JniPMML.RecordSet	alnputRecordSet	
java.io.PrintWriter	pw	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

$mWriteMap(WDataSci.JniPMML.RecordSetMD\ aRecordSetMD)$

Declaration

public int mWriteMap(WDataSci.JniPMML.RecordSetMD aRecordSetMD)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	

Returns

ТҮРЕ	DESCRIPTION
int	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mBytesRequired(WDataSci.JniPMML.RecordSetMD aRecordSetMD, long nRecords, long[] csize, long[] hsize, long[] rsize, long[] cleadsize, long[] hleadsize, long[] hleadsize, long[] hleadsize, long[] reladsize, long[] rvlensize)

Declaration

public void mBytesRequired(WDataSci.JniPMML.RecordSetMD aRecordSetMD, long nRecords, long[] csize, long[]
hsize, long[] rsize, long[] cleadsize, long[] hleadsize, long[] hflensize, long[] hvlensize, long[] rleadsize,
long[] rflensize, long[] rvlensize)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	
long	nRecords	
	csize	
	hsize	
	rsize	
	cleadsize	
	hleadsize	
	hflensize	
	hvlensize	
	rleadsize	
	rflensize	
	rvlensize	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mWritePrepFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, long nRecords)

Declaration

public void mWritePrepFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, long nRecords)

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	
long	nRecords	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mWriteRecordSet(WDataSci.JniPMML.RecordSetMD outRecordSetMD, WDataSci.JniPMML.RecordSet aOutputRecordSet, WDataSci.JniPMML.RecordSetMD inRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet)

Declaration

public int mWriteRecordSet(WDataSci.JniPMML.RecordSetMD outRecordSetMD, WDataSci.JniPMML.RecordSet
aOutputRecordSet, WDataSci.JniPMML.RecordSetMD inRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	outRecordSetMD	
WDataSci.JniPMML.RecordSet	aOutputRecordSet	
WDataSci.JniPMML.RecordSetMD	inRecordSetMD	
WDataSci.JniPMML.RecordSet	alnputRecordSet	

Returns

ТҮРЕ	DESCRIPTION
int	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

Class WranglerDBB.__DBBMatter

Inheritance

java.lang.Object

WranglerDBB.__DBBMatter

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class WranglerDBB.__DBBMatter

Constructors

__DBBMatter()

Declaration

public __DBBMatter()

Fields

Buffer

Declaration

public WDataSci.JniPMML.DBB Buffer

Field Value

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.DBB	

MaxStringLength

Declaration

public long MaxStringLength

Field Value

ТҮРЕ	DESCRIPTION
long	

MaxStringByteLength

Declaration

public long MaxStringByteLength

Field Value

ТҮРЕ	DESCRIPTION
long	

blsManagedInJava

Declaration

public Boolean bIsManagedInJa	ava	
-------------------------------	-----	--

Field Value

ТҮРЕ	DESCRIPTION
java.lang.Boolean	

Methods

Dispose()

Declaration

public void Dispose()

Class WranglerFlatFile

Inheritance

java.lang.Object

WranglerFlatFile

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class WranglerFlatFile

Constructors

WranglerFlatFile()

Declaration

public WranglerFlatFile()

Fields

FileName

Declaration

public String FileName

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

Path

Declaration

public String Path

Field Value

ТҮРЕ	DESCRIPTION	
java.lang.String		

DIm

Declaration

public String Dlm

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

hasHeaderRow

Declaration

public boolean hasHeaderRow		
Field Value		
ТҮРЕ	DESCRIPTION	
boolean		

__CSVParser

Declaration

public CSVParser __CSVParser

Field Value

Т	ГҮРЕ	DESCRIPTION
c	org.apache.commons.csv.CSVParser	

__CSVParserIterator

Declaration

public Iterator<CSVRecord> __CSVParserIterator

Field Value

ТҮРЕ	DESCRIPTION
java.util.Iterator <org.apache.commons.csv.csvrecord></org.apache.commons.csv.csvrecord>	

Methods

Dispose()

Declaration

public void Dispose()

$Equals (WDataSci.JniPMML.WranglerFlatFile\ arg)$

Declaration

public boolean Equals(WDataSci.JniPMML.WranglerFlatFile arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

Returns

ТУРЕ	DESCRIPTION
boolean	

cPointToFile(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, String aFileName, boolean hasHeaderRow, String dlm)

Declaration

public void cPointToFile(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, String aFileName, boolean hasHeaderRow, String dlm)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	alnputRecordSetMD	
java.lang.String	aFileName	
boolean	hasHeaderRow	
java.lang.String	dlm	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, WDataSci.JniPMML.JniPMMLItem aJniPMML, PrintWriter pw, boolean bFillDictionaryNames)

Declaration

public void mReadMapFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, WDataSci.JniPMML.JniPMMLItem aJniPMML,
PrintWriter pw, boolean bFillDictionaryNames)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	
WDataSci.JniPMMLJniPMMLItem	aJniPMML	
java.io.PrintWriter	pw	
boolean	bFillDictionaryNames	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadRecordSet(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet, PrintWriter pw)

Declaration

public void mReadRecordSet(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet
aInputRecordSet, PrintWriter pw)

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	alnputRecordSetMD	
WDataSci.JniPMML.RecordSet	alnputRecordSet	
java.io.PrintWriter	pw	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadRecordSet(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet, String aPath, String aFileName, boolean hasHeaderRow, String dlm, PrintWriter pw)

Declaration

public void mReadRecordSet(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet
aInputRecordSet, String aPath, String aFileName, boolean hasHeaderRow, String dlm, PrintWriter pw)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	alnputRecordSetMD	
WDataSci.JniPMML.RecordSet	alnputRecordSet	
java.lang.String	aPath	
java.lang.String	aFileName	
boolean	hasHeaderRow	
java.lang.String	dlm	
java.io.PrintWriter	pw	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mWriteRecordSet(WDataSci.JniPMML.RecordSetMD aOutputRecordSetMD, WDataSci.JniPMML.RecordSet aOutputRecordSet, WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet)

Declaration

public void mWriteRecordSet(WDataSci.JniPMML.RecordSetMD aOutputRecordSetMD, WDataSci.JniPMML.RecordSet
aOutputRecordSet, WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet)

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aOutputRecordSetMD	
WDataSci.JniPMML.RecordSet	aOutputRecordSet	
WDataSci.JniPMML.RecordSetMD	alnputRecordSetMD	
WDataSci.JniPMML.RecordSet	alnputRecordSet	

ТУРЕ	CONDITION
WDataSci.WDS.WDSException	

$mWriteRecordSet(WDataSci.JniPMML.RecordSetMD\ aOutputRecordSetMD,\ WDataSci.JniPMML.RecordSet\ aOutputRecordSet)$

Declaration

public void mWriteRecordSet(WDataSci.JniPMML.RecordSetMD aOutputRecordSetMD, WDataSci.JniPMML.RecordSet
aOutputRecordSet)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aOutputRecordSetMD	
WDataSci.JniPMML.RecordSet	aOutputRecordSet	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

Class WranglerHDF5

Inheritance

java.lang.Object

WranglerHDF5

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class WranglerHDF5

Constructors

WranglerHDF5()

Declaration

public WranglerHDF5()

Fields

File

Declaration

public H5File File

Field Value

ТҮРЕ	DESCRIPTION
hdf.object.h5.H5File	

CompoundDS

Declaration

public H5CompoundDS CompoundDS

Field Value

ТУРЕ	DESCRIPTION
hdf.object.h5.H5CompoundDS	

DSName

Declaration

public String DSName

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

blsInMemory

Declaration

public boolean bIsInMemory

Field Value

ТҮРЕ	DESCRIPTION
boolean	

Methods

Dispose()

Declaration

public void Dispose()

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

finalize()

Declaration

protected void finalize()

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, WDataSci.JniPMML.JniPMMLItem aJniPMML, PrintWriter pw, boolean bFillDictionaryNames)

Declaration

public void mReadMapFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, WDataSci.JniPMML.JniPMMLItem aJniPMML,
PrintWriter pw, boolean bFillDictionaryNames)

Parameters

ТУРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	
WDataSci.JniPMMLJniPMMLItem	aJniPMML	
java.io.PrintWriter	pw	
boolean	bFillDictionaryNames	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadPrepFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, PrintWriter pw)

Declaration

public long mReadPrepFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, PrintWriter pw)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	
java.io.PrintWriter	pw	

Returns

ТҮРЕ	DESCRIPTION
long	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

mWritePrepFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, PrintWriter pw)

Declaration

public long mWritePrepFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, PrintWriter pw)

Parameters

ТУРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	
java.io.PrintWriter	pw	

Returns

ТҮРЕ	DESCRIPTION
long	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

UpdateOutputMapForHDF5(WDataSci.JniPMML.RecordSetMD aRecordSetMD, PrintWriter pw)

Declaration

public void UpdateOutputMapForHDF5(WDataSci.JniPMML.RecordSetMD aRecordSetMD, PrintWriter pw)

Parameters

ТУРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	
java.io.PrintWriter	pw	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

mReadRecordSet(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet, PrintWriter pw)

Declaration

public void mReadRecordSet(WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet
aInputRecordSet, PrintWriter pw)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	alnputRecordSetMD	
WDataSci.JniPMML.RecordSet	alnputRecordSet	
java.io.PrintWriter	pw	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

$mWriteMap(WDataSci.JniPMML.RecordSetMD\ aRecordSetMD)$

Declaration

public int mWriteMap(WDataSci.JniPMML.RecordSetMD aRecordSetMD)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	

ТҮРЕ	DESCRIPTION
int	

ТУРЕ	CONDITION	
WDataSci.WDS.WDSException		

mWriteRecordSet(WDataSci.JniPMML.RecordSetMD aOutputRecordSetMD, WDataSci.JniPMML.RecordSet aOutputRecordSet, WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet)

Declaration

public void mWriteRecordSet(WDataSci.JniPMML.RecordSetMD aOutputRecordSetMD, WDataSci.JniPMML.RecordSet
aOutputRecordSet, WDataSci.JniPMML.RecordSetMD aInputRecordSetMD, WDataSci.JniPMML.RecordSet aInputRecordSet)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aOutputRecordSetMD	
WDataSci.JniPMML.RecordSet	aOutputRecordSet	
WDataSci.JniPMML.RecordSetMD	aInputRecordSetMD	
WDataSci.JniPMML.RecordSet	alnputRecordSet	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

new_HDF5DataType(int hclass, int hlength, int horder, int hsign)

Declaration

public WDataSci.JniPMML.WranglerHDF5.HDF5DataType new_HDF5DataType(int hclass, int hlength, int horder, int hsign)

ТҮРЕ	NAME	DESCRIPTION
int	hclass	
int	hlength	
int	horder	
int	hsign	

Returns

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerHDF5.HDF5DataType	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

new_HDF5DataType(WDataSci.JniPMML.WranglerHDF5.HDF5DataType arg)

Declaration

public WDataSci.JniPMML.WranglerHDF5.HDF5DataType new_HDF5DataType(WDataSci.JniPMML.WranglerHDF5.HDF5DataType
arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.WranglerHDF5.HDF5DataType	arg	

Returns

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerHDF5.HDF5DataType	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

new_HDF5DataType(WDataSci.JniPMML.FieldBaseMD arg)

Declaration

public WDataSci.JniPMML.WranglerHDF5.HDF5DataType new_HDF5DataType(WDataSci.JniPMML.FieldBaseMD arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.FieldBaseMD	arg	

ТҮРЕ		DESCRIPTION
WDataSci.JniPMML.\	Vrangler HDF5. HDF5 Data Type	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

new_HDF5DataType(WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp)

Declaration

public WDataSci.JniPMML.WranglerHDF5.HDF5DataType new_HDF5DataType(WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.FieldMDEnums.eDTyp	DТур	

Returns

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerHDF5.HDF5DataType	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

new_HDF5DataType(WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp, long nStringMaxLength, boolean anyVLen) Declaration

public WDataSci.JniPMML.WranglerHDF5.HDF5DataType new_HDF5DataType(WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp,
long nStringMaxLength, boolean anyVLen)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.FieldMDEnums.eDTyp	DТур	
long	nStringMaxLength	
boolean	anyVLen	

Returns

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerHDF5.HDF5DataType	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	
java.lang.Exception	

new_HDF5DataType(long arg)

Declaration

public WDataSci.JniPMML.WranglerHDF5.HDF5DataType new_HDF5DataType(long arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
long	arg	

Returns

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.WranglerHDF5.HDF5DataType	

	ТҮРЕ	CONDITION
	WDataSci.WDS.WDSException	
	java.lang.Exception	

Class WranglerHDF5.HDF5DataType

Inheritance

java.lang.Object

WranglerHDF5.HDF5DataType

Namespace:

Assembly: .dll

Syntax

public class WranglerHDF5.HDF5DataType

Constructors

HDF5DataType(int hclass, int hlength, int horder, int hsign)

Declaration

public HDF5DataType(int hclass, int hlength, int horder, int hsign)

Parameters

ТҮРЕ	NAME	DESCRIPTION
int	hclass	
int	hlength	
int	horder	
int	hsign	

HDF5DataType(Datatype arg)

Declaration

public HDF5DataType(Datatype arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
hdf.object.Datatype	arg	

HDF5DataType(WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp, long nStringMaxLength, boolean anyVLen)

Declaration

public HDF5DataType(WDataSci.JniPMML.FieldMDEnums.eDTyp DTyp, long nStringMaxLength, boolean anyVLen)

ТУРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.FieldMDEnums.eDTyp	DТур	
long	nStringMaxLength	
boolean	anyVLen	

Fields

data

Declaration

public Datatype data	pub
----------------------	-----

Field Value

TY	PE	DESCRIPTION
hd	lf.object.Datatype	

Methods

eDTyp()

Declaration

public WDataSci.JniPMML.FieldMDEnums.eDTyp eDTyp()

Returns

ТҮРЕ	DESCRIPTION
WDataSci.JniPMML.FieldMDEnums.eDTyp	

Equals(WDataSci.JniPMML.WranglerHDF5.HDF5DataType arg)

Declaration

public boolean Equals(WDataSci.JniPMML.WranglerHDF5.HDF5DataType arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
	arg	

ТҮРЕ	DESCRIPTION
boolean	

Class WranglerXSD

Inheritance

java.lang.Object

WranglerXSD

Namespace:

Assembly: .dll

Syntax

public class WranglerXSD

Constructors

WranglerXSD()

Declaration

public WranglerXSD()

Methods

mReadMapFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, WDataSci.JniPMML.JniPMMLItem aJniPMMLItem, PrintWriter pw, boolean bFillDictionaryNames)

Declaration

public void mReadMapFor(WDataSci.JniPMML.RecordSetMD aRecordSetMD, WDataSci.JniPMML.JniPMMLItem aJniPMMLItem,
PrintWriter pw, boolean bFillDictionaryNames)

Parameters

ТҮРЕ	NAME	DESCRIPTION
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	
WDataSci.JniPMMLJniPMMLItem	aJniPMMLItem	
java.io.PrintWriter	pw	
boolean	bFillDictionaryNames	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

mReadMapFor(Document aDoc, WDataSci.JniPMML.RecordSetMD aRecordSetMD, WDataSci.JniPMML.IniPMMLItem aJniPMMLItem, PrintWriter pw, Boolean bFillDictionaryNames)

Declaration

public void mReadMapFor(Document aDoc, WDataSci.JniPMML.RecordSetMD aRecordSetMD, WDataSci.JniPMML.JniPMMLItem aJniPMMLItem, PrintWriter pw, Boolean bFillDictionaryNames)

ТҮРЕ	NAME	DESCRIPTION
org.w3c.dom.Document	aDoc	
WDataSci.JniPMML.RecordSetMD	aRecordSetMD	
WDataSci.JniPMML.JniPMMLItem	aJniPMMLItem	
java.io.PrintWriter	pw	
java.lang.Boolean	bFillDictionaryNames	

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

XSDHeader()

Declaration

public static String XSDHeader()

Returns

TY	уре	DESCRIPTION
ja	va.lang.String	

XSDRecordSet_Open(String rns, String rn)

Declaration

public static String XSDRecordSet_Open(String rns, String rn)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	rns	
java.lang.String	rn	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

XSDRecordSet_Close()

Declaration

public static String XSDRecordSet_Close()

ТҮРЕ	DESCRIPTION
java.lang.String	

XSDFooter()

Declaration

public static String XSDFooter()

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

XSDColumn(String name, String dtyp)

Declaration

public static String XSDColumn(String name, String dtyp)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	name	
java.lang.String	dtyp	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

XSDTypes()

Declaration

public static String XSDTypes()

ТҮРЕ	DESCRIPTION
java.lang.String	

WDS-Java

General utilitities that independent of JniPMML code. To simplify assemblies and jars, this code is included in the larger projects, but is also compiled as a stand alone.

On the java side, there is a separate WDS-00.00.00.jar generated but it is pulled into a shaded jar so that only one WDS-JniPMML-00.00.00.jar needs to be used in practice.

Namespace com.WDataSci.WDS

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Classes

Util

WDSException

Class Util

Inheritance

java.lang.Object

Util

Namespace:

 $Assembly{:}\ .dll$

Syntax

public class Util

Constructors

Util()

Declaration

public Util()

Methods

FetchFileAsString(String arg)

Declaration

public static String FetchFileAsString(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
WDataSci.WDS.WDSException	

bln(String arg0, String[] args)

Declaration

public static boolean bIn(String arg0, String[] args)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg0	
	args	

ТҮРЕ	DESCRIPTION
boolean	

MatchingNullity(String A, String B)

Declaration

public static boolean MatchingNullity(String A, String B)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	А	
java.lang.String	В	

Returns

ТҮРЕ	DESCRIPTION
boolean	

MatchingNullityAndValueEquals(String A, String B)

Declaration

public static boolean MatchingNullityAndValueEquals(String A, String B)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	А	
java.lang.String	В	

Returns

ТУРЕ	DESCRIPTION
boolean	

MatchingNullity(Object A, Object B)

Declaration

public static boolean MatchingNullity(Object A, Object B)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.Object	A	
java.lang.Object	В	

ТУРЕ	DESCRIPTION
boolean	

CleanAsNMToken(String arg)

CleanAsNMToken returns a clean and valid NMToken (name token) string for a given input

Following XMLSchema data types, a NMToken cannot contain single or double quotes, or commas. These characters are stripped from the input and any leading, trailing, or interior spaces are removed. The primary characters are Java Regular Expression *word* characters (A-Z_a-z0-9), period, underscore, colon, and dash. It technically also includes CombiningChars and Extenders, but the regular expression here does not implement those in this version.

Declaration

public static String CleanAsNMToken(String arg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
java.lang.Exception	

CleanAsToken(String arg)

CleanAsToken returns a clean and valid XMLSchema string data type Token for a given input.

Following XMLSchema data types, a Token does not have leading or trailing spaces, tabs, carriage returns, linefeeds, and interior multiple space sequences are converted to single spaces. CleanAsToken maps all non-printable characters to space before conversion.

Declaration

public static String CleanAsToken(String arg)

Parameters

ТУРЕ	NAME	DESCRIPTION
java.lang.String	arg	

ТҮРЕ	DESCRIPTION
java.lang.String	

ТҮРЕ	CONDITION
java.lang.Exception	

CleanQuotes(String arg)

CleanQuotes returns a string with double or single quotes removed.

Declaration

public static String CleanQuotes(String arg)

Parameters

ТУРЕ	NAME	DESCRIPTION
java.lang.String	arg	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

Exceptions

ТҮРЕ	CONDITION
java.lang.Exception	

CleanAsString(String arg, String regex_exp, String regex_repl)

CleanAsString (overloaded) allows the regular expression and the replaceAll target to be inputs (for testing)

Declaration

public static String CleanAsString(String arg, String regex_exp, String regex_repl)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	arg	
java.lang.String	regex_exp	
java.lang.String	regex_repl	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

ТҮРЕ	CONDITION
java.lang.Exception	

BaseDirAndPath(String aBaseDir, String aPath)

Declaration

public static String BaseDirAndPath(String aBaseDir, String aPath)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	aBaseDir	
java.lang.String	aPath	

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

PathAndName(String aPath, String aFileName)

Declaration

public static String PathAndName(String aPath, String aFileName)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	aPath	
java.lang.String	aFileName	

ТҮРЕ	DESCRIPTION
java.lang.String	

Class WDSException

Inheritance

java.lang.Exception

WDSException

Namespace:

Assembly: .dll

Syntax

public class WDSException extends Exception

Constructors

WDSException(String msg)

Declaration

public WDSException(String msg)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	msg	

WDSException(String msg, Throwable e)

Declaration

public WDSException(String msg, Throwable e)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	msg	
java.lang.Throwable	е	

WDSException(String msg, Exception e)

Declaration

public WDSException(String msg, Exception e)

Parameters

ТҮРЕ	NAME	DESCRIPTION
java.lang.String	msg	
java.lang.Exception	е	

Fields

__Message

Declaration

public String __Message

Field Value

ТҮРЕ	DESCRIPTION
java.lang.String	

Methods

getMessage()

Declaration

public String getMessage()

Returns

ТҮРЕ	DESCRIPTION
java.lang.String	

toString()

Declaration

public String toString()

ТҮРЕ	DESCRIPTION
java.lang.String	