

Package ‘RBaseX’

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Type Package

Title 'BaseX' Client

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Description 'BaseX' <<https://basex.org>> is a XML database engine and a compliant 'XQuery 3.1' processor with full support of 'W3C Update Facility'. This package is a full client-implementation of the client/server protocol for 'BaseX' and provides functionalities to create, manipulate and query on XML-data.

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Encoding UTF-8

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Imports R6, RCurl, pingr, rex, httr, stringr, dplyr, openssl, magrittr, tibble, data.table

Suggests testthat, glue

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URL <https://github.com/BenEngbers/RBaseX>

SystemRequirements Needs a running BaseX server instance. The testuser with credentials ('Test'/testBasex') should have admin rights.

Repository CRAN

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 Add

Add

Description

Adds a new resource to the opened database.

Usage

```
Add(session, path, input)
```

Arguments

session	BasexClient instance-ID
path	Path
input	Additional input (optional)

Details

The input can be a UTF-8 encoded XML document, a binary resource, or any other data (such as JSON or CSV) that can be successfully converted to a resource by the server. The utility-function *input_to_raw* can be used to convert an arbitrary character vector to a stream. This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

Value

A list with two items

- info Additional info
- success Boolean, indicating if the command was completed successful

Examples

```
## Not run:
Add(Session, "test", "<xml>Add</xml>")

## End(Not run)
```

 Bind

Bind

Description

Binds a value to a variable.

Usage

```
Bind(query_obj, ...)
```

Arguments

query_obj	QueryClass instance-ID
...	Binding Information

Details

Binding information can be provided in the following ways:

- name, value Name and value for a variable.
- name, value, type Name, value and type for a variable.
- name, list(value) Name, list of values.
- name, list(value), list(type) Name, list of values, list of types.

For a list of possible types see https://docs.basex.org/wiki/Java_Bindings#Data_Types

This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

Value

Boolean value which indicates if the operation was executed successful

Examples

```
## Not run:
query_obj <- Query(Session,
  "declare variable $name external; for $i in 1 to 2 return element { $name } { $i }")
Bind(query_obj, "$name", "number")
print(Execute(query_obj))

query_obj <- Query(Session,
  "declare variable $name external; for $i in 3 to 4 return element { $name } { $i }")
Bind(query_obj, "$name", "number", "xs:string")
print(Execute(query_obj))

query_obj <- Query(Session,
  "declare variable $name external;
  for $t in collection('TestDB/Books')/book where $t/@author = $name
  return $t/@title/string()")
Bind(query_obj, "$name", list("Walmsley", "Wickham"))
print(Execute(query_obj))

query_obj <- Query(Session,
  "declare variable $name external;
  for $t in collection('TestDB/Books')/book where $t/@author = $name
  return $t/@title/string()")
Bind(query_obj, "$name", list("Walmsley", "Wickham"), list("xs:string", "xs:string"))
print(Execute(query_obj))

## End(Not run)
```

Close

Close

Description

Closes and unregisters the query with the specified ID

Usage

```
Close(query_obj)
```

Arguments

query_obj QueryClass instance-ID

Details

This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

Value

This function returns a list with the following items:

- info Info
- success A boolean, indicating if the command was completed successful

Command	<i>Command</i>
---------	----------------

Description

Executes a database command or a query.

Usage

```
Command(...)
```

Arguments

... The command or query to be executed. When used to execute a command, a SessionID and a string which contains the command, are to be passed. When used to execute a query, the QueryClass instance-ID is passed.

Details

For a list of database commands see <https://docs.basex.org/wiki/Commands>
'BaseX' can be used in a Standard mode or Query mode.

In the standard mode of the Clients, a database command can be sent to the server using the Command() function of the Session. The query mode of the Clients allows you to bind external variables to a query and evaluate the query in an iterative manner.

Value

When used to execute commands in the Standard mode, this function returns a list with the following items:

- result
- info Additional info
- success A boolean, indicating if the command was completed successful

When used to execute a query, it return the result as a list.

Examples

```
## Not run:
Session <- NewBasexClient(user = <username>, password = "<password>")
print(Command(Session, "info")$info)

query_txt <- paste("for $i in 1 to 2", "return <xml>Text { $i }</xml>", sep = " ")
query_obj <- Query(Session, query_txt)
print(Command(query_obj))

## End(Not run)
```

Context

Context

Description

Binds a value to the context. The type will be ignored if the string is empty. The function returns no value.

Usage

```
Context(query_obj, value, type)
```

Arguments

query_obj	QueryClass instance-ID
value	Value that should be bound to the context
type	The type will be ignored when the string is empty

Details

The type that is provided to the context, should be one of the standard-types. An alternative way is to parse the document information. This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

Examples

```
## Not run:
ctxt_query_txt <- "for $t in ../text() return string-length($t)"
ctxt_query <- Query(Session, ctxt_query_txt)
ctxt_txt <- paste0("<xml>",
                 "<txt>Hi</txt>",
                 "<txt>World</txt>",
                 "</xml>")
Context(ctxt_query, ctxt_txt, type = "document-node()")
print(Execute(ctxt_query)) ## returns "2" "5"
```

```
ctxt_query_txt <- "for $t in parse-xml(./text()) return string-length($t)"
Context(ctxt_query, ctxt_txt)
print(Execute(ctxt_query))

## End(Not run)
```

Create

Create

Description

Creates a new database with the specified name and input (may be empty).

Usage

```
Create(session, name, input)
```

Arguments

session	BasexClient instance-ID
name	Database name
input	Additional input, may be empty

Details

The input can be a UTF-8 encoded XML document, a binary resource, or any other data (such as JSON or CSV) that can be successfully converted to a resource by the server. 'Check' is a convenience command that combines OPEN and CREATE DB: If a database with the name input exists, and if there is no existing file or directory with the same name that has a newer timestamp, the database is opened. Otherwise, a new database is created; if the specified input points to an existing resource, it is stored as initial content. This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

Value

A list with two items

- info Additional info
- success A boolean, indicating if the command was completed successful

Examples

```
## Not run:
Create(, "test", "<xml>Create test</xml>")
Execute(Session, "Check test")
Create(Session, "test2",
  "https://raw.githubusercontent.com/BaseXdb/baseX/master/baseX-api/src/test/resources/first.xml")
Create(Session, "test3", "/home/username/Test.xml")

## End(Not run)
```

 Execute
*Execute***Description**

Executes a database command or a query.

Usage

```
Execute(...)
```

Arguments

... The command or query to be executed. When used to execute a command, a SessionID and a string which contains the command, are to be passed. When used to execute a query, the QueryClass instance-ID is passed.

Details

The 'Execute' command is deprecated and has been renamed to 'Command'. 'Execute' is being kept as convenience.

Value

When used to execute commands in the Standard mode, this function returns a list with the following items:

- result
- info Additional info
- success A boolean, indicating if the command was completed successfull

When used to execute a query, it return the result as a list.

Examples

```
## Not run:
Session <- NewBasexClient(user = <username>, password = "<password>")
print(Execute(Session, "info")$info)

query_txt <- paste("for $i in 1 to 2", "return <xml>Text { $i }</xml>", sep = " ")
query_obj <- Query(Session, query_txt)
print(Execute(query_obj))

## End(Not run)
```

Full

*Title Full***Description**

Executes a query and returns a list of vectors, each one representing a result as a string , prefixed by the 'XDM' (Xpath Data Model) Meta Data <<https://www.xdm.org/>>. Meta Data and results are separated by a '|'.

Usage

```
Full(query_obj)
```

Arguments

```
query_obj      QueryClass instance-ID
```

Examples

```
## Not run:
query_txt <- "collection('/TestDB/Test.xml')"
query_obj <- Query(Session, query_txt)

print(Full(query_obj))

## Return
[[1]]
[1] "2f"                "/TestDB/Test.xml"
[[2]]
[1] "3c"                "Line_1 line=\"1\">Content 1</Line_1"
[[3]]
[1] "2f"                "/TestDB/Test.xml"
[[4]]
[1] "3c"                "Line_2 line=\"2\">Content 2</Line_2"

## End(Not run)
```

GetIntercept	<i>GetIntercept</i>
--------------	---------------------

Description

Current value for session\$Intercept

Usage

GetIntercept(session)

Arguments

session	BasexClient instance-ID
---------	-------------------------

Value

Current value

GetSuccess	<i>GetSuccess</i>
------------	-------------------

Description

Current value from session\$Success

Usage

GetSuccess(session)

Arguments

session	BasexClient instance-ID
---------	-------------------------

Value

Current value

 Info
*Info***Description**

Returns a string with query compilation and profiling info.

Usage

```
Info(query_obj)
```

Arguments

query_obj QueryClass instance-ID

Details

If the query object has not been executed yet, an empty string is returned.

Value

This function returns a list with the following items:

- Info Info
- success A boolean, indicating if the command was completed successfull

 input_to_raw
*input_to_raw***Description**

Convert *input* to a length-1 character vector.

Usage

```
input_to_raw(input)
```

Arguments

input Character vector length 1

Details

If *input* is a reference to a file, the number of bytes corresponding to the size is read. If it is an URL, the URL is read and converted to a 'Raw' vector. The function does not catch errors.

Value

'Raw' vector

More

More

Description

Indicates if there are any other results in the query-result.

Usage

```
More(query_obj)
```

Arguments

query_obj QueryClass instance-ID

Value

Boolean

Examples

```
## Not run:
Query_1 <- Query(Session, "collection('/TestDB/Test.xml')")
iterResult <- c()

while (More(Query_1)) {
  iterResult <- c(iterResult, Next(Query_1))
}

print(iterResult)

[[1]]
[1] "0d"                                   "<Line_1 line=\"1\">Content 1</Line_1>"

[[2]]
[1] "0d"                                   "<Line_2 line=\"2\">Content 2</Line_2>"

## End(Not run)
```

NewBasexClient	<i>Title</i>
----------------	--------------

Description

Create a BaseX-client

Usage

```
NewBasexClient(host = "localhost", port = 1984, user, password)
```

Arguments

host, port	Host name and port-number
user, password	User credentials

Details

This creates a BaseX-client. By default it listens to port 1984 on localhost. Username and password should be changed after the installation of 'BaseX'.

Value

BasexClient-instance

Examples

```
## Not run:
session <- NewBasexClient(user = <username>, password = "<password>")

## End(Not run)
```

Next	<i>Next</i>
------	-------------

Description

Returns the next result when iterating over a query

Usage

```
Next(query_obj)
```

Arguments

query_obj	QueryClass instance-ID
-----------	------------------------

Examples

```
## Not run:
Query_1 <- Query(Session, "collection('TestDB/Test.xml')")
iterResult <- c()

while (More(Query_1)) {
  iterResult <- c(iterResult, Next(Query_1))
}

print(iterResult)

[[1]]
[1] "0d"                                "<Line_1 line=\"1\">Content 1</Line_1>"

[[2]]
[1] "0d"                                "<Line_2 line=\"2\">Content 2</Line_2>"

## End(Not run)
```

Options

*Options***Description**

Returns a string with all query serialization parameters, which can be assigned to the serializer option.

Usage

```
Options(query_obj)
```

Arguments

```
query_obj      QueryClass instance-ID
```

Details

For a list of possible types see https://docs.basex.org/wiki/Java_Bindings#Data_Types

Value

This function returns a list with the following items:

- Options Options
- success A boolean, indicating if the command was completed successful

put	<i>Put</i>
-----	------------

Description

Adds or replaces a resource with the specified input.

Usage

```
put(session, path, input)
```

Arguments

session	BasexClient instance-ID
path	Path where to store the data
input	Add or replacement

Details

The input can be a UTF-8 encoded XML document, a binary resource, or any other data (such as JSON or CSV) that can be successfully converted to a resource by the server. This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

Value

A list with two items

- info Additional info
- success A boolean, indicating if the command was completed successfull

Examples

```
## Not run:  
put(Session, "test", "<xml>Create test</xml>")  
  
## End(Not run)
```

 putBinary

putBinary

Description

Store or replace a binary resource in the opened database.

Usage

```
putBinary(session, path, input)
```

Arguments

session	BasexClient instance-ID
path	Path where to store the data
input	Additional input, may be empty

Details

Use the database-command *retrieve* to retrieve the resource. The input can be a UTF-8 encoded XML document, a binary resource, or any other data (such as JSON or CSV) that can be successfully converted to a resource by the server. This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

Value

A list with two items

- info Additional info
- success A boolean, indicating if the command was completed successfull

Examples

```
## Not run:
Execute(Session, "DROP DB BinBase")
testBin <- Execute(Session, "Check BinBase")
bais <- raw()
for (b in 252:255) bais <- c(bais, c(b)) %>% as.raw()
test <- putBinary(Session, "test.bin", bais)
print(test$success)
baos <- Execute(Session, "BINARY GET test.bin")
print(baos)
print(baos$result)

## End(Not run)
```

 Query

Query

Description

Creates a new query instance and returns it's id.

Usage

```
Query(session, query_string)
```

Arguments

session	BasexClient instance-ID
query_string	query string

Details

If `paste0()` is used to create a multi-line statement, the lines must be separated by a space or a newline `\n`-character.

Value

Query_ID

Examples

```
## Not run:
query_txt <- "for $i in 1 to 2 return <xml>Text { $i }</xml>"
query_obj <- Query(Session, query_txt)
print(Execute(query_obj))

## End(Not run)
```

 QueryClass

QueryClass

Description

The client can be used in 'standard' mode and in 'query' mode. Query mode is used to define queries, binding variables and for iterative evaluation.

Methods**Public methods:**

- `QueryClass$new()`
- `QueryClass$ExecuteQuery()`
- `QueryClass$Bind()`
- `QueryClass$Context()`
- `QueryClass$Full()`
- `QueryClass$More()`
- `QueryClass$Next()`
- `QueryClass$Info()`
- `QueryClass$options()`
- `QueryClass$Updating()`
- `QueryClass$Close()`
- `QueryClass$clone()`

Method `new()`: Initialize a new instance from QueryClass

Usage:

`QueryClass$new(query, Parent)`

Arguments:

query Query-string

Parent The 'Parent' for this QueryClass-instance

Details: QueryClass-instances can only be created by calling the 'Query'-method from the 'BaseClient'-class.

Method `ExecuteQuery()`: Executes a query.

Usage:

`QueryClass$ExecuteQuery()`

Method `Bind()`: Binds a value to a variable.

Usage:

`QueryClass$Bind(...)`

Arguments:

... Binding Information

query_obj QueryClass instance-ID

Details: When using the primitive functions, this function can be chained.

Method `Context()`: Binds a value to the context. The type will be ignored if the string is empty.

Usage:

`QueryClass$Context(value, type)`

Arguments:

value Value that should be boud to the context

type The type will be ignored when the string is empty

Details: When using the primitive functions, this function can be chained.

Method Full(): Executes a query and returns a vector with all resulting items as strings, prefixed by the 'XDM' (XPath Data Model) Meta Data <<https://www.xdm.org/>>.

Usage:

```
QueryClass$Full()
```

Method More(): Indicates if there are any other results in the query-result.

Usage:

```
QueryClass$More()
```

Method Next(): Returns the next result when iterating over a query

Usage:

```
QueryClass$Next()
```

Method Info(): Returns a string with query compilation and profiling info.

Usage:

```
QueryClass$Info()
```

Method Options(): Returns a string with all query serialization parameters, which can e.g. be assigned to the serializer option.

Usage:

```
QueryClass$options()
```

Method Updating(): Check if the query contains updating expressions.

Usage:

```
QueryClass$Updating()
```

Method Close(): Closes and unregisters the query with the specified ID

Usage:

```
QueryClass$Close()
```

Details: When using the primitive functions, this function can be chained.

Method clone(): The objects of this class are cloneable with this method.

Usage:

```
QueryClass$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

RBaseX

RBaseX

Description

'BaseX' is a robust, high-performance XML database engine and a highly compliant XQuery 3.1 processor with full support of the W3C Update and Full Text extensions.

The client can be used in 'standard' mode and in 'query' mode. Standard Mode is used for connecting to a server and sending commands.

Details

'RBaseX' was developed using R6. For most of the public methods in the R6-classes, wrapper-functions are created. The differences in performance between R6-methods and wrapper-functions are minimal and slightly in advantage of the R6-version.

It is easy to use the R6-calls instead of the wrapper-functions. The only important difference is that in order to execute a query, you have to call `ExecuteQuery()` on a `queryObject`.

Methods

Public methods:

- `BasexClient$new()`
- `BasexClient$Command()`
- `BasexClient$Execute()`
- `BasexClient$Query()`
- `BasexClient$Create()`
- `BasexClient$Add()`
- `BasexClient$put()`
- `BasexClient$Replace()`
- `BasexClient$putBinary()`
- `BasexClient$Store()`
- `BasexClient$set_intercept()`
- `BasexClient$restore_intercept()`
- `BasexClient$get_intercept()`
- `BasexClient$get_socket()`
- `BasexClient$set_success()`
- `BasexClient$get_success()`
- `BasexClient$clone()`

Method `new()`: Initialize a new client-session

Usage:

```
BasexClient$new(host, port = 1984L, username, password)
```

Arguments:

host, port, username, password Host-information and user-credentials

Method Command(): Execute a command

Usage:

BasexClient\$Command(command)

Arguments:

command Command

Details: For a list of database commands see <https://docs.baseX.org/wiki/Commands>

Method Execute(): Execute a command

Usage:

BasexClient\$Execute(command)

Arguments:

command Command

Details: For a list of database commands see <https://docs.baseX.org/wiki/Commands>. This function is replaced by 'Command' and is obsolete.

Method Query(): Create a new query-object

Usage:

BasexClient\$Query(query_string)

Arguments:

query_string Query-string

Details: A query-object has two fields. 'queryObject' is an ID for the new created 'QueryClass'-instance. 'success' holds the status from the last executed operation on the queryObject.

Returns: ID for the created query-object

Method Create(): Create a new database

Usage:

BasexClient\$Create(name, input)

Arguments:

name Name

input Initial content, Optional

Details: Initial content can be offered as string, URL or file.

Method Add(): Add a new resource at the specified path

Usage:

BasexClient\$Add(path, input)

Arguments:

path Path

input File, directory or XML-string

Method put(): Add or replace resource, addressed by path

Usage:

```
BasexClient$put(path, input)
```

Arguments:

path Path

input File, directory or XML-string

Method `Replace()`: Replace resource, addressed by path. This function is deprecated and has been replaced by `'put'`.

Usage:

```
BasexClient$Replace(path, input)
```

Arguments:

path Path

input File, directory or XML-string

Method `putBinary()`: Store binary content

Usage:

```
BasexClient$putBinary(path, input)
```

Arguments:

path Path

input File, directory or XML-string

Details: Binary content can be retrieved by executing a retrieve-command

Method `Store()`: Store binary content

Usage:

```
BasexClient$Store(path, input)
```

Arguments:

path Path

input File, directory or XML-string

Details: Binary content can be retrieved by executing a retrieve-command. This function is deprecated and has been replaced by `'putBinary'`.

Method `set_intercept()`: Toggles between using the `'success'`-field, returned by the `Execute`-command or using regular error-handling (`try-catch`).

Usage:

```
BasexClient$set_intercept(Intercept)
```

Arguments:

Intercept Boolean

Method `restore_intercept()`: Restore the Intercept Toggles to the original value

Usage:

```
BasexClient$restore_intercept()
```

Method `get_intercept()`: Get current Intercept

Usage:

```
BasexClient$get_intercept()
```

Method `get_socket()`: Get the socket-ID

Usage:

```
BasexClient$get_socket()
```

Returns: Socket-ID,

Method `set_success()`: Set the status success-from the last operation on the socket

Usage:

```
BasexClient$set_success(Success)
```

Arguments:

Success Boolean

Details: This function is intended to be used by instances from the QueryClass

Method `get_success()`: Get the status success-from the last operation on the socket

Usage:

```
BasexClient$get_success()
```

Returns: Boolean,

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

```
BasexClient$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

Examples

```
## Not run:
Session <- BasexClient$new("localhost", 1984L, username = "<username>", password = "<password>")
Session$Execute("Check test")
Session$Execute("delete /")
# Add resource
Session$Add("test.xml", "<root/>")

# Bindings -----
query_txt <- "declare variable $name external; for $i in 1 to 3 return element { $name } { $i }"
query_obj <- Session$query(query_txt)
query_obj$queryObject$Bind("$name", "number")
print(query_obj$queryObject$ExecuteQuery())

## End(Not run)
```

Replace	<i>Replace</i>
---------	----------------

Description

Replaces a resource with the specified input.

Usage

```
Replace(session, path, input)
```

Arguments

session	BasexClient instance-ID
path	Path where to store the data
input	Replacement

Details

The 'Replace' command is deprecated and has been renamed to 'Put'. 'Replace' is being kept as convenience.

The input can be a UTF-8 encoded XML document, a binary resource, or any other data (such as JSON or CSV) that can be successfully converted to a resource by the server. This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

Value

A list with two items

- info Additional info
- success A boolean, indicating if the command was completed successfull

Examples

```
## Not run:  
Replace(Session, "test", "<xml>Create test</xml>")  
  
## End(Not run)
```

RestoreIntercept	<i>RestoreIntercept</i>
------------------	-------------------------

Description

Restore Intercept to original new value

Usage

```
RestoreIntercept(session)
```

Arguments

session BaseexClient instance-ID

Details

This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

result2frame	<i>result2frame</i>
--------------	---------------------

Description

Converts the query-result to a frame. The query-result is either a list (sequence) or an array. If it is a list, 'cols' is needed to determine the number of columns.

Usage

```
result2frame(...)
```

Arguments

... Query-result

Value

Return result from query as dataframe

result2tibble	<i>result2tibble</i>
---------------	----------------------

Description

Converts the query-result to a tibble. The query-result is either a list (sequence) or an array. If it is a list, 'cols' is needed to determine the number of columns.

Usage

```
result2tibble(...)
```

Arguments

...	Query-result
-----	--------------

Value

Return result from query as tibble

SetIntercept	<i>SetIntercept</i>
--------------	---------------------

Description

Assign a new value to session\$Intercept

Usage

```
SetIntercept(session, intercept)
```

Arguments

session	BaseXClient instance-ID
intercept	New Intercept value

Details

This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

Examples

```
## Not run:
SetIntercept(TRUE)

## End(Not run)
```

SetSuccess	<i>SetSuccess</i>
------------	-------------------

Description

Assign a new value to session\$Success

Usage

```
SetSuccess(session, success)
```

Arguments

session	BasexClient instance-ID
success	Success-indicator for the last operation on the socket

Examples

```
## Not run:
SetSuccess(TRUE)

## End(Not run)
```

SocketClass	<i>SocketClass</i>
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Description

All methods that are used by BasexClient and QueryClass

Methods**Public methods:**

- [SocketClass\\$new\(\)](#)
- [SocketClass\\$finalize\(\)](#)
- [SocketClass\\$handShake\(\)](#)
- [SocketClass\\$write_Byte\(\)](#)
- [SocketClass\\$clone\(\)](#)

Method `new()`: Initialize a new socket

Usage:

```
SocketClass$new(host, port = 1984L, username, password)
```

Arguments:

host, port, username, password Host-information and credentials

Method finalize(): When releasing the session-object, close the socketConnection

Usage:

SocketClass\$finalize()

Method handShake(): Send input to the socket and return the response

Usage:

SocketClass\$handShake(input)

Arguments:

input Input

Details: Input is a raw vector, built up by converting all input to raw and concatenating the results

Method write_Byte(): Write 1 byte to the socket

Usage:

SocketClass\$write_Byte(Byte)

Arguments:

Byte A vector length 1

Method clone(): The objects of this class are cloneable with this method.

Usage:

SocketClass\$clone(deep = FALSE)

Arguments:

deep Whether to make a deep clone.

Store

Store

Description

Stores a binary resource in the opened database.

Usage

```
Store(session, path, input)
```

Arguments

session	BasexClient instance-ID
path	Path where to store the data
input	Additional input, may be empty

Details

The 'Store' command is deprecated and has been renamed to 'putBinary'. 'Store' is being kept as convenience.

Use the database-command *retrieve* to retrieve the resource. The input can be a UTF-8 encoded XML document, a binary resource, or any other data (such as JSON or CSV) that can be successfully converted to a resource by the server. This method returns *self* invisibly, thus making it possible to chain together multiple method calls.

Value

A list with two items

- info Additional info
- success A boolean, indicating if the command was completed successful

Examples

```
## Not run:
Execute(Session, "DROP DB BinBase")
testBin <- Execute(Session, "Check BinBase")
bais <- raw()
for (b in 252:255) bais <- c(bais, c(b)) %>% as.raw()
test <- Store(Session, "test.bin", bais)
print(test$success)
baos <- Execute(Session, "binary get test.bin")
print(bais)
print(baos$result)

## End(Not run)
```

Updating

Updating

Description

Check if the query contains updating expressions.

Usage

```
Updating(query_obj)
```

Arguments

query_obj Query instance-ID

Details

Returns *TRUE* if the query contains updating expressions; *FALSE* otherwise.

Value

This function returns a list with the following items:

- result Result
- success A boolean, indicating if the command was completed successfull

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