Package ‘mongopipe’

April 6, 2025

Title Write MongoDB Queries with R

Version 0.1.2

Description Translate R code into MongoDB aggregation pipelines.

URL https://rpkgs.gitlab.io/mongopipe,
https://gitlab.com/rpkgs/mongopipe

BugReports https://gitlab.com/rpkgs/mongopipe/-/issues

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Suggests testthat (>= 3.0.0), mongolite (>= 2.2.0), nycflights13

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.3.2

Imports magrittr, jsonlite, rlang

NeedsCompilation no

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Repository CRAN

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Contents

add_stage *Create or append a mongo aggregation stage*

Description

Create or append a mongo aggregation stage

Usage

```
add_stage(x, ...)

## Default S3 method:
add_stage(x, ...)

## S3 method for class 'mongopipe'
add_stage(x, type, ...)
```

Arguments

`x`	Object of class mongo or mongo_pipe
`...`	query
`type`	Name of the stage.

Value

Object of type mongopipe.

condition *Conditional expression ($cond)*

Description

Evaluates a boolean expression to return one of the two specified return expressions.

Usage

```
condition(test, yes, no)
```

Arguments

`test`	Expression which returns a boolean value.
`yes`	Return this if the test returns true.
`no`	Return this if the test returns false.

Value

Return a list for using in mongopipe.

Examples

```
## Not run:
cond <- condition(test = list("$isArray"="$chart"),
                  yes = list("$size"="$chart"),
                  no = 0)
jsonlite::toJSON(cond)

## End(Not run)
```

match *Pipeline Stages*

Description

These functions translate R code to json readable by Mongodb.

Usage

```
match(x, ...)

## S3 method for class 'mongopipe'
match(x, ...)

field(x, ...)

## S3 method for class 'mongopipe'
field(x, ...)

lookup(x, ...)

## S3 method for class 'mongopipe'
lookup(x, from, local_field = from, foreign_field = "_id", as = from, ...)

unwind(x, ...)

## S3 method for class 'mongopipe'
unwind(x, field, ...)

limit(x, ...)

## S3 method for class 'mongopipe'
limit(x, limit, ...)
```

```
project(x, ...)

## S3 method for class 'mongopipe'
project(x, ...)
```

Arguments

`x`	Object of class `mongopipe`
`...`	list object
`from`	Collection to join
`local_field`	Field from the input documents
`foreign_field`	Field from the documents of the "from" collection
`as`	Name of output array field (Default: `from`)
`field`	Field to unwind.
`limit`	Integer to limit the number of documents.

Value

Object of type mongopipe.

`mongopipe` *Mongopipe*

Description

Mongopipe

Usage

```
mongopipe()
```

Value

Object of type mongopipe.

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