

Package ‘anatrix’

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Type Package

Title Bidirectional connector to Anatrix API

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Depends R (>= 1.8.0), RCurl, XML, pastecs

Description Bidirectional connector to Anatrix API

License LGPL

NeedsCompilation no

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anatrix-package *Bidirectional connector to Anatrix API*

Description

Provides function(s) to extract data from Anatrix API into R data structure(s). Provides function(s) to upload data from R into Anatrix table(s).

Details

Package: anatrix
Type: Package
Version: 1.5
Date: 2012-12-13
License: LGPL

In R install package: `install.packages("anatrix")`. Load package: `library("anatrix")`

Author(s)

Author, Roman Jugai

Maintainer: Roman Jugai <roman@anatrix.com>

References

<http://www.anatrix.com>

getAxDataset *Extracts data from Anatrix API into R data structure*

Description

Function `getAxDataset` extracts data from Anatrix API and returns R data frame

Usage

```
getAxDataset(auth, reportSuiteId, tableObject, columns, datestart,  
dateend, count, dateFormat, sortColumn, sortDirection, verbose)
```

Arguments

auth	Authentication instance.
reportSuiteId	Data Suite ID. Contact your product manager for assistance.
tableObject	Configuration of a table. Use <code>getTableConfiguration(auth, reportsuiteId, tableName)</code> to get it.
columns	Array of column names for the request. Example: <code>c("city", "country", "male_population")</code> Use <code>printTable(tableObject)</code> to see all column names.
datestart	Start date of the request. Use YYYY-MM-DD format. Example: "2012-03-31"
dateend	End date of the request. Use YYYY-MM-DD format. Example: "2012-03-31"
count	Number of rows requested. Example: "1000"
dateFormat	Format of the date column. Example: "day", "week", or custom format like "MM-dd-yy" or "w-yyyy"
sortColumn	Column to sort on. Use any column provided in the columns array
sortDirection	Direction of the sorting. Example: "asc"
verbose	Specifies whether to print out notifications. Example: FALSE

Format

R Data frame containing number of observations requested from Anamatrix API

Value

D R Data frame containing data

Author(s)

Author, Roman Jugai

References

<http://www.anamatrix.com>

Examples

```
#Example: Extracting 3 columns from Browsers table from Anamatrix API

username = "demo.user@demoanamatrix.com"
password = "demo.user"
auth <- authenticate("https://demo.anamatrix.com/api", username, password)
table <- getTableConfiguration(auth, 10385, "Browsers")
printTable(table)
axdata <- getAxDataset(auth, 10385, table, c("name", "visits", "page_views"), "2012-03-01",
"2012-04-30", 100, "month", "visits", "asc", TRUE)
head(axdata)
```

```
getAxDatasetFromEncodedQuery
```

Extracts data from Anamatrix API into R data structure

Description

Function `getAxDatasetFromEncodedQuery` extracts data from Anamatrix API using Base64-encoded Anamatrix query, and returns R data frame

Usage

```
getAxDatasetFromEncodedQuery(auth, encodedQuery, startDate, endDate, verbose)
```

Arguments

<code>auth</code>	Authentication instance.
<code>encodedQuery</code>	Base64-encoded query XML corresponding to Anamatrix API requirements. Contact your product manager for assistance.
<code>startDate</code>	Specifies start date of the query (format: YYYY-MM-DD).
<code>endDate</code>	Specifies end date of the query (format: YYYY-MM-DD).
<code>verbose</code>	Specifies whether to print out notifications. Example: FALSE

Author(s)

Author, Roman Jugai

```
printTable
```

Prints Table object configuration

Description

Prints configuration of a table object extracted from Anamatrix API

Usage

```
printTable(tableObject)
```

Arguments

<code>tableObject</code>	Configuration of a table. Use <code>getTableConfiguration(auth, reportsuiteId, tableName)</code> to get it.
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uploadData	<i>Uploads data into Anamatrix from R data structure</i>
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Description

Function uploadData uploads data from R data.frame into Anamatrix table

Usage

```
uploadData(auth, reportSuiteId, tableObject, dataframe, columns, tag, truncation)
```

Arguments

auth	Authentication instance.
reportSuiteId	Data Suite ID. Contact your product manager for assistance.
tableObject	Configuration of a table. Use <code>getTableConfiguration(auth, reportsuiteId, tableName)</code> to get it.
dataframe	R Data frame containing data that needs to be uploaded
columns	Array of column names that need to be uploaded. Example: <code>c("city","country","male_population")</code> Use <code>printTable(tableObject)</code> to see all column names.
tag	Tag of the upload.
truncation	Truncation type. If truncation type is 'none', it doesn't truncate anything before the upload. If truncation type is 'tag', all data with that tag will be truncated before the upload.

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