Package 'RESS'

February 26, 2015

Type Package

1 2 3
5
_
he
read.udb

read.udb takes a file containing any number of Essentia commands and captures the output of the specified statements into R dataframes.

read.udb can be used to stream multiple files directly into R with a single command but essQuery is limited to one file per command.

2 essQuery

Details

Package: RESS
Type: Package
Version: 1.0
Date: 2015-02-24

License: Same as Essentia. Free to use but do not make or distribute any copies.

Author(s)

Ben Waxer, Data Scientist with Auriq Systems.

Maintainer: Who to complain to <bwaxer@auriq.com>

essQuery

essQuery

Description

Query the UDB database and return the results to R.

Usage

```
essQuery(essentia, aq="", flags="")
```

Arguments

essentia The essentia command to run. The options are "ess task stream category start-

date enddate" and "ess task exec".

Each stream command can only be used to stream one file directly into your R analysis. However, each stream command can save multiple files into a single R

dataframe.

The default value for the essentia argument is "ess task exec".

aq This can be any combination of the aq_tools and standard UNIX commands.

However, the output MUST be in a csv format if you want R to capture the output. If you only want to run the command without R capturing the output,

add "#Rignore" to the flags argument.

flags Any of the essentia flags can be used here in addition to any of these RESS-

specific flags:

 $\mbox{\tt\#Rignore}$: Ignore an 'ess task exec statement. Do not capture the output of the statement into R.

Rinclude: Include an 'ess task stream' statement. Capture the output of the statement into R.

#-notitle: Tell R not to use the first line of the output as the header.

#Rseparate: Can be used when saving multiple files into an R dataframe using an 'ess task stream' command. Saves each file into a different R dataframe, entitled command1 to commandN, where N is the number of files.

read.udb 3

Details

essQuery is used to directly query the database using a single statement. You can call essQuery multiple times to run different statements.

However, you can also use read.udb to read all of the statements in a file instead. Thus if you plan to run multiple statements that may be somewhat related to each other, it is recommended that you use read.udb.

Value

The value returned is the output from querying the database. This can be saved into an R dataframe or directly analyzed in R.

If you use essQuery to save multiple files into an R dataframe using a single stream command, the files are stored automatically in an R dataframe called command1 and no value is returned. To change the name of the stored dataframe, use the #R#NAME#R# flag.

Author(s)

Ben Waxer, Data Scientist with Auriq Systems.

References

See our website at www.auriq.net or our documentation at www.auriq.net/documentation

read.udb read.udb

Description

Read the essentia commands in the stated file, query the UDB database, and save the results into R as dataframes.

Usage

```
read.udb(file, linenumber = "all")
```

Arguments

file

The file containing the essentia commands you want to run. 'ess task stream' statements will have their output ignored by R unless there is a '#Rinclude' flag somehwere in the statement line. 'ess task exec' statements will have their output included unless there is a '#Rignore' flag somewhere in the statement line.

The file should contain primarily the query commands but can contain the entire essentia script including loading the UDB database if desired. Any command that you want to capture the output from must have its output in csv format.

linenumber

This is set to default to all line numbers so that every command in the file is executed. You can specify the line number of the command you wish to run if

you dont want to run the entire set of commands in the file.

4 read.udb

Details

read.udb reads all of the statements in a file (unless linenumber is specified, see above) and captures the output of the specified commands into R dataframes. By default only the output of 'ess task exec' statements is captured and it's stored in R dataframes command1 to commandN, where N is the number of captured statements.

You can include 'ess task stream' statements by adding a '#Rinclude' flag. This method can be used to stream multiple files into R for data exploration or analysis. Thus if you plan to run multiple statements that may be somewhat related to each other, or you want to stream multiple files into R, it is recommended that you use read.udb.

Value

There is no value returned. This command creates a set of R dataframes containing the output from the specified essentia commands in file.

Note

The flags added to the essentia commands in file can include:

#Rignore: Ignore an 'ess task exec statement. Do not capture the output of the statement into R.

#Rinclude: Include an 'ess task stream' statement. Capture the output of the statement into R.

#-notitle: Tell R not to use the first line of the output as the header.

#Rseparate: Can be used when saving multiple files into an R dataframe using an 'ess task stream' command. Saves each file into a different R dataframe, entitled command1 to commandN, where N is the number of files.

Author(s)

Ben Waxer, Data Scientist with Auriq Systems.

References

See our website at www.auriq.net or our documentation at www.auriq.net/documentation.

Index

```
*Topic package

RESS-package, 1

essQuery, 2

read.udb, 3

RESS (RESS-package), 1

RESS-package, 1
```