

Package ‘sqlshare’

July 2, 2014

Type Package

Title API for access to SQLShare database

Version 1.0.3

Date 2014-04-15

Author Andrew White <white.d.andrew@gmail.com>

Maintainer Andrew White <white.d.andrew@gmail.com>

Description Provides API for executing and retrieving the results of SQL statements on the on-line SQLShare service provided by the eScience institute at the University of Washington. More information on using SQLShare may be found at the package URL.

License MIT + file LICENSE

Depends R (>= 1.8.0), RCurl

URL <http://escience.washington.edu/sqlshare>

NeedsCompilation no

Repository CRAN

Date/Publication 2014-04-22 18:38:16

R topics documented:

sqlshare-package	2
fetch.data.frame	3

Index	5
--------------	----------

sqlshare-package

API for SQLShare web application

Description

Provides API for SQL statements on databases hosted on SQLShare (<http://escience.washington.edu/sqlshare>). An authentication file should be created at `$HOME/.sqlshare/config` and be formatted as follows:

```
[sqlshare]
host=rest.sqlshare.escience.washington.edu
user=your-sql-share-account-name@your-domain
password=your-sql-share-account-key
```

After creating a SQLShare account, the account-key may be created here <https://sqlshare.escience.washington.edu/sqlshare/#s=credentials>.

Details

```
Package:  sqlshare
Type:     Package
Version:  1.0
Date:     2013-04-02
License:  MIT
```

Author(s)

Andrew D White

References

Information on SQLShare may be found at <http://escience.washington.edu/sqlshare>

Examples

```
#get the periodic table of elements
sql <- "select * from [sqlshare@uw.edu].[periodic_table]"

#execute the sqlshare statement. Note, the extra session argument
```

```
#isn't necessary if a config file is created

elements <- fetch.data.frame(sql, session=guest.session)

#plot the ionization potential as a function of atomic number
plot(first_ionization_ev~z, elements, type="l")
```

fetch.data.frame *fetch.data.frame*

Description

Executes the given SQL statement and returns the result as a data.frame.

Usage

```
fetch.data.frame(sql, session=sqlshare.session)
```

Arguments

sql	A SQL statement to be executed.
session	A list containing a host, key, and user. The default is read from ~/.sqlshare/config upon loading the sqlshare package.

Value

A `data.frame` containing the result. A NULL is returned if the query failed due to a SQL syntax error, authentication, or missing dataset. A `data.frame` with no rows indicates an empty result.

Author(s)

Andrew D White

References

Information on SQLShare may be found at <http://escience.washington.edu/sqlshare>.

Examples

```
#get the periodic table of elements
sql <- "select * from [sqlshare@uw.edu].[periodic_table]"

#execute the sqlshare statement. Note, the extra session argument
#isn't necessary if a config file is created

elements <- fetch.data.frame(sql, session=guest.session)
```

```
#plot the ionization potential as a function of atomic number  
plot(first_ionization_ev~z, elements, type="l")
```

Index

*Topic **IO**

fetch.data.frame, [3](#)

sqlshare-package, [2](#)

*Topic **package**

sqlshare-package, [2](#)

data.frame, [3](#)

fetch.data.frame, [3](#)

sqlshare (sqlshare-package), [2](#)

sqlshare-package, [2](#)