# Package 'tdR'

# March 23, 2016

Title Teradata interaction and query package

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Version 0.0.1.0000			
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<b>Description</b> Helper functions for Teradata queries and other miscellaneous things.			
<b>Depends</b> R (>= 3.2.2), RJDBC			
Imports RJDBC, DBI			
License MIT + file LICENSE			
LazyData true			
RoxygenNote 5.0.1			
R topics documented:			
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td td

## **Description**

Sends queries to Teradata. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

## Usage

```
td(query = "", ...)
```

## **Arguments**

query Query string to send to Teradata.
... Optional connection settings.

#### **Details**

Uses the v15.10.00.33 release (12 Jan 2016) tdgssconfig.jar and terajdbc4.jar drivers.

## Value

If no data is returned from query, then an invisible object is returned. Otherwise, a data.frame object with all data queried will be returned.

# See Also

tdConn for connection, tdDisk for disk usage, tdSpool for spool usage, tdCpu for CPU usage, and tdJoin for joining tables.

```
## NOT RUN ##
## Runs a quick query based on connection profile
# td("select count(*) from ICDB_PERSON", username=<username>, password=<password>, db="GCA")
## Runs query using a separately established connection
# conn = tdConn(<username>, <password>, db="GCA")
# td("select count(*) from ICDB_PERSON", conn=conn)
## Uses same connection, but allows code to find globally
# td("select count(*) from ICDB_PERSON")
```

tdClose 3

tdClose tdClose

## **Description**

Closes connection to the Teradata server. If none exists, then does nothing. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources.

Takes either a connection object provided, or looks for one globally.

## Usage

```
tdClose(conn = NULL)
```

## **Arguments**

conn

JDBCConnection Connection object.

#### Value

An invisible object is returned, indicating success or failure.

#### See Also

\codetdConn for Teradata connection, td for Teradata queries.

# Examples

```
## NOT RUN ##
## Connect to default data warehouse and data base
# conn = tdConn(<username>, <password>)
## Close connection
# tdClose()
```

tdConn

tdConn

#### **Description**

Checks for a connection to the Teradata server. If none exists, tries to establish one. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. If no JDBC connection is provided (tdConn), then a connection is attempted using the user, and password provided.

## Usage

```
tdConn(username = getOption("tdPassword"), password = NULL,
   addr = "jdbc:teradata://megadew.corp.apple.com/charset=utf8",
   db = ifelse(addr == "jdbc:teradata://megadew.corp.apple.com/charset=utf8",
   "CDM_Special", ""), classPath = NULL, conn = NULL)
```

4 tdCpu

#### **Arguments**

connection user name.

Connection password.

String containing address of database to connect to. By default, is jdbc:teradata://megadew.corp.appledb

Name of database to connect to. By default, is CDM\_Special.

ClassPath

The location of the JDBC drivers. By default, will use the drivers included in the package.

Conn

DBIConnection object with established connection to the RDMBS. Only used internally to check connection and establish a connection if none exists.

#### **Details**

If desired, you can define your username and password in the .Rprofile file using the command options(tdPassword = c(<username>="<password>")), which will then automatically assign the password in the background each time R is started. This then allows you to connect without having to enter your username and password manually each time you connect.

The JDBC driver included uses the v15.10.00.33 release (12 Jan 2016) tdgssconfig.jar and tera-jdbc4.jar drivers.

#### Value

A RJDBC connection object is returned.

# See Also

td for Teradata queries, tdDisk for disk usage, tdSpool for spool usage, tdCpu for CPU usage, and tdJoin for joining tables.

#### **Examples**

```
## NOT RUN ##
## Connect to default data warehouse and data base
# conn = tdConn(<username>, <password>)

## Connect to data warehouse using different data base
# conn = tdConn(<username>, <password>, db='ADM_AMR')

## Connect to different data warehouse than default
# conn = tdConn(<username>, <password>, addr="jdbc:teradata://redwood.corp.apple.com")
```

tdCpu tdCpu

tdCpu 5

## **Description**

Queries Teradata for CPU use. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

# Usage

```
tdCpu(user = "user", date = as.Date(Sys.time()), ...)
```

## **Arguments**

user	Username to grab CPU use from. Defaults to the username used in the Teradata connection.
date	Date desired for query information. Defaults to today's date. If overwritten, can be in either the date format for R or the Teradata format YYMMDD.
	Optional connection settings.

#### Value

A data. frame object is returned with the Teradata query information of the specified date.

## See Also

tdConn for connection, tdDisk for disk usage, tdSpool for spool usage, and td for general queries

```
## NOT RUN ##
## Connect to default data warehouse and data base
# tdCpu(<username>, <password>)

## Runs query using a separately established connection
# conn = tdConn(<username>, <password>)
# tdCpu(conn=conn)

## Uses same connection, but allows code to find globally
# tdCpu()
```

6 tdDim

## **Description**

Gets the dimensions in Teradata tables. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

## Usage

```
tdDim(table = NULL, where = "", ...)
```

## Arguments

table String vector of name of table to get table dimensions from.
where String statement to subset table with.

... Optional connection settings.

#### Value

Returns a data, frame of the Teradata table dimensions.

# See Also

tdConn for connection, tdNames for table names, td for general queries, tdCpu for CPU usage, and tdJoin for joining tables.

```
## NOT RUN (will also result in errors due to user restrictions) ##
## Runs a quick query based on connection profile
# tdDim("ICDB_PERSON", username=<username>, password=<password>, db="GCA")
## Runs query using a separately established connection
# conn = tdConn(<username>, <password>, db="GCA")
# tdDim("ICDB_PERSON", conn=conn)
## Uses same connection, but allows code to find globally.
# tdDim("ICDB_PERSON")
```

tdDisk 7

tdDisk *tdDisk* 

## **Description**

Queries Teradata for disk space used. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

## Usage

```
tdDisk(user = "user", ...)
```

# **Arguments**

Username to grab CPU use from. Defaults to the username used in the Teradata connection.

.. Optional connection settings.

## Value

A data. frame object is returned with all of the Teradata query information of the specified date.

# See Also

tdConn for connection, tdCpu for CPU usage, tdSpool for spool usage, and td for general queries

```
## NOT RUN ##
## Connect to default data warehouse and data base
# tdDisk(<username>, <password>)

## Runs query using a separately established connection
# conn = tdConn(<username>, <password>)
# tdDisk(conn=conn)

## Uses same connection, but allows code to find globally
# tdDisk()
```

8 tdDrop

tdDrop tdDrop

# **Description**

Drops tables from Teradata. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

## Usage

```
tdDrop(tables = "", ...)
```

## **Arguments**

tables String vector of Teradata tables to drop

Optional connection settings.

#### Value

An invisible object containing the tables dropped is returned.

## See Also

tdConn for connection, tdDisk for disk usage, tdSpool for spool usage, tdCpu for CPU usage, and tdJoin for joining tables.

```
## NOT RUN ##
## Runs a quick drop query based on connection profile
# tdDrop(<tableName>, username=<username>, password=<password>, db="GCA")
## Runs query using a separately established connection
# conn = tdConn(<username>, <password>, db="GCA")
# tdDrop(<tableName>, conn=conn)
## Uses same connection, but allows code to find globally.
# Can also drop multiple tables.
# tdDrop(c(<table1Name>, <table2Name>))
```

tdExists 9

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## **Description**

Determines if Teradata table exists. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

# Usage

```
tdExists(table = NULL, ...)
```

# Arguments

table String vector of name of table to get column names from.
... Optional connection settings.

## **Details**

This function looks in the DBC. COLUMNS table to determine whether the Teradata table exists.

#### Value

Returns a boolean indicator of either TRUE if table exists or FALSE if table does not.

# See Also

tdConn for connection, tdDisk for disk usage, tdSpool for spool usage, tdCpu for CPU usage, and tdJoin for joining tables.

```
## NOT RUN (will also result in errors due to user restrictions) ##
## Runs a quick query based on connection profile
# tdExists("ICDB_PERSON", username=<username>, password=<password>, db="GCA")
## Runs query using a separately established connection
# conn = tdConn(<username>, <password>, db="GCA")
# tdExists("ICDB_PERSON", conn=conn)
## Uses same connection, but allows code to find globally.
# tdExists("ICDB_PERSON")
```

10 tdFile

tdFile *tdFile* 

## **Description**

Submits a SQL file to Teradata to run. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

## Usage

```
tdFile(file = NULL, ...)
```

#### **Arguments**

file File to submit to Teradata.
... Optional connection settings.

## **Details**

*Warning:* This function rads in all lines and parses commands using ";". Thus, commands should be separated using that character. If a literal ";" is desired within the code, an escape character of "\" should precede it, e.g. where column="\;".

## Value

An invisible object is returned indicating whether the file ran successfully.

## See Also

tdConn for connection, tdHead for top observations, tdSpool for spool usage, and td for general queries

```
## NOT RUN ##
## Connect to default data warehouse and data base
# tdFile("file.sql", <username>, <password>)

## Runs query using a separately established connection
# conn = tdConn(<username>, <password>)
# tdFile("file.sql", conn=conn)

## Uses same connection, but allows code to find globally
# tdFile("file.sql")
```

tdHead 11

tdHead		
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# **Description**

Gets the top observations in a Teradata table. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

## Usage

```
tdHead(table = NULL, n = 10, cols = NULL, where = "", ...)
```

## **Arguments**

table	A string stating the Teradata table name.
n	A single integer, representing the number of rows desired. Defaults to 10.
cols	Columns desired. Defaults to all columns.
where	String statement to subset table with.
	Optional connection settings.

## Value

Returns a data. frame of the the Teradata table with the first n observations.

## See Also

tdConn for connection, tdNames for table names, td for general queries, tdCpu for CPU usage, and tdJoin for joining tables.

```
## NOT RUN (will also result in errors due to user restrictions) ##
## Runs a quick query based on connection profile
# tdHead("ICDB_PERSON", username=<username>, password=<password>, db="GCA")

## Runs query using a separately established connection. Selects 20 observations
# from only two columns, subset by even Person_Id.
# conn = tdConn(<username>, <password>, db="GCA")
# tdHead("ICDB_PERSON", 20, c("PERSON_ID", "INDIV_ID"), "PERSON_ID mod 2 = 0", conn=conn)

## Uses same connection, but allows code to find globally. Also subsets on PERSON_ID.
# tdHead("ICDB_PERSON")
```

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## **Description**

Takes two (or more) Teradata EDW tables using a JDBC connection object via the RJDBC package and merges them together. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources.

## Usage

```
tdJoin(tdf0, tdf1, tdf2, index1, index2, col1 = NULL, col2 = NULL,
joinType = "inner", ...)
```

## **Arguments**

tdf0	Name of resulting Teradata to output.
tdf1	Name of first Teradata table to merge.
tdf2	Name of second Teradata table to merge.
index1	Name of index from first table to merge by.
index2	Name of index from second table to merge by.
col1	Name of columns from first table to merge.
col2	Name of columns from second table to merge.
joinType	Type of merge to perform. Needs to be one of following: inner,left outer, right outer, full
•••	Additional tdfX and indexX to merge, where X is the count. Also can take optional connection settings.

## **Details**

By default, the code tries to do joins starting from Table 1 going up. So if, for example, three tables are provided for inner joins, then Table 1 and Table 2 will first be inner joined, and the resulting output will then be inner joined with Table 3. If a left join is desired for the three tables, then Table 2 will be left joined to Table 1 and Table 3 will then be left joined with the resulting table.

If desired, column names for each table can be provided to merge together. By default, the code will try to use all columns of the tables provided. All tables will be searched for duplicate column names. If any exists, then copies will be renamed with a suffix of \_copyX where X represents the number of copies. If an index name merging by has copies across the tables, then only one index name is kept.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

## Value

The code creates the data table on the Teradata server via the JDBCConnection object. Names of each table created are returned as a string vector.

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#### See Also

tdConn for connection, tdDisk for disk usage, tdSpool for spool usage, tdCpu for CPU usage, and td for general queries.

# **Examples**

```
## NOT RUN ##
## With connection pre-established, inner join on table ##
# conn = tdConn(<username>, <password>)
# tdJoin(<outputTable>, <inputTable1>, <inputTable2>, <index1>, <index2>)

## inner join on table with select columns ##
# tdJoin(<outputTable>, <inputTable1>, <inputTable2>, <index1>, <index2>, joinType="left")

## left join on table ##
# tdJoin(<outputTable>, <inputTable1>, <inputTable2>, <index1>, <index2>, joinType="left")
```

tdNames

tdNames

## **Description**

Gets column names from Teradata tables. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

# Usage

```
tdNames(table = NULL, ...)
```

# Arguments

table String vector of name of table to get column names from.Optional connection settings.

## **Details**

Many of the core production tables in Teradata are locked, such that trying to query for indicies will result in Error 3853. This is a part of the user restrictions and can be circumvented by creating a new subset of the table and querying that subset. If the index is unable to be determined, a value of NA will be returned.

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#### Value

Returns a data. frame object with the following items:

- "DatabaseName"Database name
- "TableName"Table name
- "ColumnName"Column name
- "ColumnFormat"Column format
- "ColumnType"Column type.
- "ColumnLength"Column length.
- "Index"Indicator of whether column is a primary index (1) or secondary index (2)

## See Also

tdConn for connection, tdDisk for disk usage, tdSpool for spool usage, tdCpu for CPU usage, and tdJoin for joining tables.

## **Examples**

```
## NOT RUN (will also result in errors due to user restrictions) ##
## Runs a quick query based on connection profile
# tdNames("ICDB_PERSON", username=<username>, password=<password>, db="GCA")
## Runs query using a separately established connection
# conn = tdConn(<username>, <password>, db="GCA")
# tdNames("ICDB_PERSON", conn=conn)
## Uses same connection, but allows code to find globally.
# tdNames("ICDB_PERSON")
```

tdQuantile

tdQuantile

# Description

Gets column quantiles from a Teradata table. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

## Usage

```
tdQuantile(table = NULL, probs = 0.5, cols = NULL, where = "", ...)
```

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## **Arguments**

table	A string stating the Teradata table name.
probs	Numeric vector of quantiles with values in [0,1]. Defaults to median (i.e. 0.5)
cols	Columns desired. Defaults to all columns.
where	Statement to subset table with.
	Optional connection settings.

#### **Details**

This code is CPU intensive, especially for large data tables, as it requires that the column values be ordered. It is advised to take care when implementing, as user limits may prevent the code from successfully running. If CPU or spool limits are reached, a workaround could be implemented by first breaking the data table into smaller subsets and subsequently taking the percentiles over them.

The code is really meant for numeric valued columns. If string columns are provided, the code will still run. However, the results will be less interpretable.

#### Value

Returns a data. frame of the Teradata table with the quantiles specified.

#### See Also

tdConn for connection, tdNames for table names, td for general queries, tdCpu for CPU usage, and tdHead for top rows in table.

## **Examples**

```
## NOT RUN (will also result in errors due to user restrictions) ##
## Runs a quick query based on connection profile
# tdQuantiles("ICDB_PERSON", username=<username>, password=<password>, db="GCA")

## Runs query using a separately established connection. Selects only two columns.
# conn = tdConn(<username>, <password>, db="GCA")
# tdQuantilesy("ICDB_PERSON", c("PERSON_ID", "INDIV_ID"), conn=conn)

## Uses same connection, but allows code to find globally. Also subsets on PERSON_ID.
# tdQuantiles("ICDB_PERSON", where="PERSON_ID mod 2 = 0")
```

tdSample tdSample

## **Description**

Gets random observations in a Teradata table. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

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#### **Usage**

```
tdSample(table = NULL, n = 10, cols = NULL, where = "", ...)
```

#### **Arguments**

table	A string stating the Teradata table name.
n	A single integer, representing the number of rows desired. Defaults to 10.
cols	Columns desired. Defaults to all columns.
where	String statement to subset table with.
	Optional connection settings.

#### **Details**

Whereas this function grabs a random sample, tdHead will grab the top observations in the table. Thus, this function will be more CPU intensive than tdHead.

#### Value

Returns a data. frame of the the Teradata table with the first n observations.

#### See Also

tdConn for connection, tdNames for table names, td for general queries, tdHead for top observations usage, and tdJoin for joining tables.

## **Examples**

```
## NOT RUN (will also result in errors due to user restrictions) ##
## Runs a quick query based on connection profile
# tdSample("ICDB_PERSON", username=<username>, password=<password>, db="GCA")

## Runs query using a separately established connection. Selects 20 observations
# from only two columns, subset by even Person_Id.
# conn = tdConn(<username>, <password>, db="GCA")
# tdSample("ICDB_PERSON", 20, c("PERSON_ID", "INDIV_ID"), "PERSON_ID mod 2 = 0", conn=conn)

## Uses same connection, but allows code to find globally. Also subsets on PERSON_ID.
# tdSample("ICDB_PERSON")
```

tdShow tdShow

## **Description**

Gets the Teradata code used to create the table. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

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#### **Usage**

```
tdShow(table = NULL, ...)
```

#### **Arguments**

table String of name of table to get Teradata code from.Optional connection settings.

## **Details**

Many of the core production tables in Teradata are locked, such that trying to query to show table code will result in Error 3853. This is a part of the user restrictions and can be circumvented by creating a new subset of the table and querying that subset. If the Teradata code is unable to be determined, a value of NA will be returned.

#### Value

Returns a string vector of the the Teradata code.

## See Also

tdConn for connection, tdDisk for disk usage, tdSpool for spool usage, tdCpu for CPU usage, and tdJoin for joining tables.

# **Examples**

```
## NOT RUN (will also result in errors due to user restrictions) ##
## Runs a quick query based on connection profile
# tdShow("ICDB_PERSON", username=<username>, password=<password>, db="GCA")

## Runs query using a separately established connection
# conn = tdConn(<username>, <password>, db="GCA")
# tdShow("ICDB_PERSON", conn=conn)

## Uses same connection, but allows code to find globally. Also used for multiple tables.
# tdShow(c("ICDB_PERSON", "ICDB_PERSON_X"))
```

tdSpool

tdSpool

# Description

Queries Teradata for spool use. This code is specifically designed for connectivity to Teradata servers using OSX at Apple using JDBC drivers and should be updated if connected to other sources. Can take a JDBC connection object (conn) if provided. If no JDBC connection is provided, then a connection is attempted using the user, and password provided. If none is provided, then tries to locate a connection object (conn) in the global environment.

If a connection profile (e.g. username, password, etc.) is provided, then an attempt is made to connect to Teradata. Once the query is run, the connection is then closed. If a connection object (conn) is provided to the function (or one is found globally), then the connection remains open.

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## Usage

```
tdSpool(user = "user", ...)
```

## **Arguments**

user Username to grab CPU use from. Defaults to the username used in the Teradata

connection.

... Optional connection settings.

## Value

A  ${\tt data.frame}$  object is returned with all of the Teradata spool information.

```
## NOT RUN ##
## Connect to default data warehouse and data base
# tdSpool(<username>, <password>)

## Runs query using a separately established connection
# conn = tdConn(<username>, <password>)
# tdSpool(conn=conn)

## Uses same connection, but allows code to find globally
# tdSpool()
```

# **Index**

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