Package: RH2 (via r-universe)

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Title DBI/RJDBC Interface to H2 Database
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2 H2

H2 H2 engine

Description

H2 creates a new DBI driver that can be used to start connections.

Usage

```
H2(driverClass='org.h2.Driver',
identifier.quote="\"", jars = getOption("RH2.jars"), ...)
```

Arguments

driverClass name of the Java class of the driver to load. If empty, it is assumed that corresponding drivers were loaded by other means.

identifier.quote

character to use for quoting identifiers in automatically generated SQL statements or NA for no quoted identifiers.

jars pathname to H2 jar file. If omitted it will use the version of H2 included in RH2.
... further arguments passed to . jpackage

Details

The H2 function initializes the Java VM, loads the H2 driver and creates a proxy R object which can be used to a call dbConnect which actually creates a connection.

It handles "integer", "Date", chron "times", "POSIXct" and "numeric" classes using the H2 types of "integer", "date", "time", "timestamp" and "double precision". All other R classes are converted to "character" and stored as varchar(255).

Value

Returns a H2Driver object that can be used in calls to dbConnect.

See Also

dbConnect

Examples

```
## Not run:
library(RJDBC)
con <- dbConnect(H2(), "jdbc:h2:~/test", "sa", "")
# create table, populate it and display it
s <- 'create table tt("id" int primary key, "name" varchar(255))'</pre>
```

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```
dbSendUpdate(con, s)
dbSendUpdate(con, "insert into tt values(1, 'Hello')")
dbSendUpdate(con, "insert into tt values(2, 'World')")
dbGetQuery(con, "select * from tt")

# transfer a data frame to H2 and then display it from the database
dbWriteTable(con, "BOD", BOD)
dbGetQuery(con, "select * from BOD")

dbDisconnect(con)

# connect to a different version of H2 and show version
con <- dbConnect(H2(jars = "c:/tmp2/h2-1.3.155.jar"))
s <- "select VALUE from INFORMATION_SCHEMA.SETTINGS where NAME = 'info.VERSION'"
dbGetQuery(con, s)
dbDisconnect(con)

## End(Not run)</pre>
```

H2Connection-class

Class "H2Connection"

Description

Class representing a (DBI) database connection which uses H2 to connect to a database.

Generators

Objects can be created by call to dbConnect of a JDBC driver.

Slots

jc: Java object representing the connection.

identifier.quote: Quote character to use for quoting identifiers in automatically generated SQL statements or NA for no such quoting. Usually the value is inherited from the "H2Driver".

Extends

```
Class "JDBCConnection-class", directly.
```

Methods

No methods defined with class "H2Connection" in the signature.

See Also

```
JDBC, "JDBCDriver"
```

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H2Connection-methods Methods for the class 'H2Connect' in Package 'H2'

Description

Methods for the class 'H2Connection' in Package 'H2'.

Methods

```
dbSendQuery signature(conn = "H2Connection", statement="character")
dbGetQuery signature(conn = "H2Connection", statement="character")
dbWriteTable signature(conn = "H2Connection", name="character", value="data.frame")
    signature(conn = "H2Connection", name="character", value="ANY")
dbDataType signature(conn = "H2Connection", obj="ANY")
```

H2Driver-class

Class "H2Driver"

Description

A DBI driver to access the H2 databases.

Generators

Objects can be created by calls to H2 or dbDriver.

Slots

identifier.quote: Quote character to use for identifiers in automatically generated SQL statements or NA if quoted identifiers are not desired.

jdrv: Java object reference to an instance of the driver if the driver can be instantiated by a default constructor. This object is only used as a fall-back when the driver manager fails to find a driver.

Extends

```
Class "JDBCDriver-class", directly.
```

Methods

No methods defined with class "H2Driver" in the signature.

See Also

JDBCDriver-class

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H2Driver-methods

Methods for the class JDBCDriver in Package 'RJDBC'

Description

Methods for the class 'H2Driver' in Package 'H2'. In addition to methods listed here there are methods inherited from JDBCDriver.

dbConnect creates a new H2 connection.

Methods

```
dbConnect signature(drv = "H2Driver", ...)
```

Examples

```
## Not run:
# in memory database
con <- dbConnect(H2(), "jdbc:h2:mem:")
dbDisconnect(con)

# external database
con <- dbConnect(H2(), "jdbc:h2:~/test")
dbDisconnect(con)

# same but run in MySQL compatibility mode
con <- dbConnect(H2(), "jdbc:h2:~/test;MODE=MYSQL")
## End(Not run)</pre>
```

H2Result-class

Class "H2Result"

Description

Representation of a DBI result set returned from a H2 connection.

Generators

Objects can be created by call to dbSendQuery.

Slots

```
jr: Java reference to the H2 result set
```

md: Java reference to the H2 result set meta data

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Extends

```
Class "DBIResult-class", directly.
```

Methods

No methods defined with class "H2Result" in the signature.

See Also

```
H2, dbSendQuery
```

H2Result-methods

Methods for the class H2Result in Package 'H2'

Description

Methods for the class 'H2Result' in Package 'H2'.

fetch retrieves the content of the result set in the form of a data frame.

Other methods are inherited from the RJDBC package.

Methods

```
fetch signature(res = "H2Result", n="numeric")
```

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