

Package ‘odbc.resourcer’

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Type Package

Title Open Database Connectivity Resource Resolver

Version 1.0.0

Description A database resource that is accessible through the Open Database Connectivity ('ODBC') API. This package uses the Resource model, with URL ``resolver'' and ``client'', to dynamically discover and make accessible tables stored in a 'MS SQL Server' database.
For more details see Marcon (2021) <[doi:10.1371/journal.pcbi.1008880](https://doi.org/10.1371/journal.pcbi.1008880)>.

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Depends R6, httr, resourcer, odbc, DBI

Suggests testthat, knitr, rmarkdown

BugReports <https://github.com/obiba/odbc.resourcer/issues>

RoxygenNote 7.3.3

VignetteBuilder knitr

Encoding UTF-8

NeedsCompilation no

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MSSQLResourceConnector

MS SQL DBI resource connector

Description

MS SQL DBI resource connector

MS SQL DBI resource connector

Format

A R6 object of class MSSQLResourceConnector

Details

Makes a ODBC DBI connection to a MS SQL server from a resource description.

Super classes

[resourcer::DBIResourceConnector](#) -> [odbc.resourcer::ODBCResourceConnector](#) -> [MSSQLResourceConnector](#)

Methods**Public methods:**

- [MSSQLResourceConnector\\$new\(\)](#)
- [MSSQLResourceConnector\\$isFor\(\)](#)
- [MSSQLResourceConnector\\$getConnectionParameters\(\)](#)
- [MSSQLResourceConnector\\$clone\(\)](#)

Method new(): Creates a new MSSQLResourceConnector instance.

Usage:

`MSSQLResourceConnector$new()`

Returns: A MSSQLResourceConnector object.

Method isFor(): Check that the provided resource has a URL that locates a MS SQL object: the URL scheme must be "odbc+mssql".

Usage:

`MSSQLResourceConnector$isFor(resource)`

Arguments:

`resource` The resource object to validate.

Returns: A logical.

Method getConnectionParameters(): Get the MS SQL ODBC driver connection string.

Usage:

```
MSSQLResourceConnector$getConnectionParameters(resource)
```

Arguments:

resource A valid resource object.

Returns: The MS SQL ODBC driver connection parameters list.

Method clone(): The objects of this class are cloneable with this method.

Usage:

```
MSSQLResourceConnector$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

Examples

```
## Not run:
# Create a resource
res <- resourcer::newResource(
  url = "odbc+mssql://localhost:1433/EpidemiologyDB/PatientData",
  identity = "sa", secret = "YourStrong@Password123")
# Create a resource client
client <- resourcer::newResourceClient(res)
# Coerce resource to a data frame
df <- client$asDataFrame()
# Disconnect the client
client$close()

## End(Not run)
```

ODBCResourceConnector *ODBC DBI resource connector*

Description

ODBC DBI resource connector

ODBC DBI resource connector

Format

A R6 object of class ODBCResourceConnector

Details

Makes a ODBC DBI connection from a resource description.

Super class

[resourcer::DBIResourceConnector](#) -> ODBCResourceConnector

Methods

Public methods:

- `ODBCResourceConnector$new()`
- `ODBCResourceConnector$isFor()`
- `ODBCResourceConnector$createDBIConnection()`
- `ODBCResourceConnector$getConnectionParameters()`
- `ODBCResourceConnector$clone()`

Method new(): Creates a new ODBCResourceConnector instance.

Usage:

```
ODBCResourceConnector$new()
```

Returns: A ODBCResourceConnector object.

Method isFor(): Check that the provided resource has a URL that locates a ODBC object: the URL scheme must start with "odbc".

Usage:

```
ODBCResourceConnector$isFor(resource)
```

Arguments:

`resource` The resource object to validate.

Returns: A logical.

Method createDBIConnection(): Creates a DBI connection object from a resource.

Usage:

```
ODBCResourceConnector$createDBIConnection(resource)
```

Arguments:

`resource` A valid resource object.

Returns: A DBI connection object.

Method getConnectionParameters(): Get the specific ODBC driver connection string.

Usage:

```
ODBCResourceConnector$getConnectionParameters(resource)
```

Arguments:

`resource` A valid resource object.

Returns: The ODBC driver connection parameters list.

Method clone(): The objects of this class are cloneable with this method.

Usage:

```
ODBCResourceConnector$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

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