

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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Contents

MSSQLResourceConnector	2
ODBCResourceConnector	3
Index	5

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.

Index

MSSQLResourceConnector, [2](#)

odbc.resourcer::ODBCResourceConnector,
[2](#)

ODBCResourceConnector, [3](#)

resourcer::DBIResourceConnector, [2](#), [3](#)