

Package: ojodb (via r-universe)

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Title Analyze Data from the Open Justice Oklahoma Database

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Description {ojodb} provides convenient functions to query court data from the Open Justice Oklahoma database.

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ojo_add_counts	<i>Add counts to a tibble of cases</i>
----------------	--

Description

Add counts to a tibble of cases

Usage

```
ojo_add_counts(data, vars = NULL, ...)
```

Arguments

data	A tibble returned by an ojo_ prefixed function
vars	Variable names from the count table to include
...	Placeholder for future arguments

Value

A tibble with counts for each case

Examples

```
## Not run:  
ojo_crim_cases(vars = c("counts", "open_counts")) |>  
  ojo_add_counts()  
  
## End(Not run)
```

ojo_add_issues	<i>Add issues to civil cases</i>
----------------	----------------------------------

Description

Add issues to civil cases

Usage

```
ojo_add_issues(data, vars = NULL, ...)
```

Arguments

data	A lazy tibble of civil cases
vars	A character vector of variables to return
...	Placeholder for additional arguments

Value

data, a lazy tibble containing the resulting civil cases

Examples

```
## Not run:  
ojo_civ_cases() |>  
  ojo_add_issues()  
  
## End(Not run)
```

ojo_add_minutes	<i>Query minutes for a given case</i>
-----------------	---------------------------------------

Description

Query the Open Justice Oklahoma database for the minutes of a case

Usage

```
ojo_add_minutes(data, ...)
```

Arguments

data	A lazy tibble containing the cases to query
...	Placeholder for additional arguments

Value

A lazy tibble containing the resulting cases with minutes

Examples

```
## Not run:  
ojo_add_minutes()  
  
## End(Not run)
```

ojo_add_party_details	<i>Add party details to a parties query</i>
-----------------------	---

Description

Query the Open Justice Oklahoma database for party details

Usage

```
ojo_add_party_details(data, vars = NULL, ...)
```

Arguments

data	A lazy tibble containing the results of a parties query
vars	A character vector of variables to return
...	Placeholder for additional arguments

Value

data, a lazy tibble containing the resulting party details

Examples

```
## Not run:
ojo_add_party_details()

## End(Not run)
```

ojo_auth

Create configuration for OJO database connection

Description

Configure credentials for the Open Justice Oklahoma database

Usage

```
ojo_auth(
  host,
  port,
  username,
  password,
  ...,
  .admin = F,
  .overwrite = T,
  .install = T
)
```

Arguments

host	The host name of the database server
port	The port number of the database server
username	The username to use to connect to the database
password	The password to use to connect to the database
...	Placeholder for additional arguments
.admin	A logical value indicating whether to connect to the database as an administrator
.overwrite	A logical value indicating whether to overwrite the existing .Renviron file
.install	A logical value indicating whether to install the database connection or use it only for the current session

Details

Assists the user in populating a .Renviron file with the necessary environment variables to connect to the Open Justice Oklahoma database.

Value

Nothing

Side Effects

The first time this function is run, it will prompt the user for a username, password, and host name. It will then store these credentials in the user's .Renviron file. If the .Renviron file already exists, it will be backed up and the new credentials will be appended to the end of the file. If the .Renviron file does not exist, it will be created and the credentials will be stored there.

Examples

```
## Not run:  
ojo_auth()  
  
## End(Not run)
```

ojo_case_types	<i>List the case types present in the OJO database</i>
----------------	--

Description

Returns a tibble containing all the case types present in the OJO database

Usage

```
ojo_case_types()
```

Value

Tibble of case types

Examples

```
## Not run:  
ojo_case_types()  
  
## End(Not run)
```

ojo_check_ssl	<i>Check whether the database connection is using SSL properly</i>
---------------	--

Description

Check whether the database connection is using SSL properly

Usage

```
ojo_check_ssl(..., .con = NULL)
```

Arguments

...	Placeholder
.con	The ojodb connection to use

Value

A logical indicator of whether the db connection is properly using SSL

Examples

```
## Not run:  
# Identifies the table  
ojo_check_ssl()  
  
## End(Not run)
```

ojo_civ_cases	<i>Query civil cases from the OJO database</i>
---------------	--

Description

Query the Open Justice Oklahoma database for civil cases with a case type of 'SC' (small claims)

Usage

```
ojo_civ_cases(  
  districts = "all",  
  vars = NULL,  
  case_types = c("CS", "SC", "CJ"),  
  file_years = lubridate::year(Sys.Date()),  
  ...  
)
```

Arguments

districts	A character vector of districts to query
vars	A character vector of variables to return
case_types	A character vector of case types to query
file_years	A character vector of years to query
...	Placeholder for additional arguments

Value

data, a lazy tibble containing the resulting civil cases

Examples

```
## Not run:
ojo_civ_cases()
ojo_civ_cases(districts = c("TULSA", "ADAIR"))
ojo_civ_cases(vars = "all")
ojo_civ_cases(vars = c("updated_at", "created_at"))

## End(Not run)
```

ojo_collect

OJO Collect

Description

A wrapper for `dplyr::collect()` that includes a progress bar Pull a lazy tibble into your local environment from the OJO database, using `ojo_crim_cases()`, `ojo_civ_cases()`, etc.

Usage

```
ojo_collect(.data, ..., .silent = !rlang::is_interactive())
```

Arguments

.data	The lazy tibble to be pulled
...	Placeholder for additional arguments
.silent	Should the command line interface elements be shown? Defaults to TRUE if the user is in an interactive session, and FALSE if they are not.

Value

A local tibble

Examples

```
## Not run:
ojo_crim_cases() |>
  head(100) |>
  ojo_collect()

## End(Not run)
```

ojo_color

Add OJO styling to a ggplot

Description

Add OJO styling to a ggplot

Usage

```
ojo_color(numbers = 1:8)
```

Arguments

numbers A vector of numbers to use for the color palette

Examples

```
## Not run:
ggplot(ojo_example, aes(file_year, n_cases, color = court)) +
  geom_line(size = 1.5) +
  theme_ojo() +
  ojo_color() +
  scale_x_continuous(
    breaks = 2010:2019,
    limits = c(NA, 2019)
  )

## End(Not run)
```

ojo_connect

*OJO Connect***Description**

Connect to the Open Justice Oklahoma database

Usage

```
ojo_connect(
  ...,
  .admin = FALSE,
  .driver = "RPostgres",
  .global = lifecycle::deprecated(),
  .env = ojo_env(),
  .pool = FALSE
)
```

Arguments

...	Placeholder.
.admin	A logical value indicating whether to connect to the database as an administrator.
.driver	The driver to use for the connection. Default is "RPostgres". "duckdb" is also supported.
.global	Deprecated. A connection will always be created in the specified environment, or in the package environment by default.
.env	The environment in which you want the connection stored.
.pool	A logical value indicating whether to use a connection pool from the {pool} package, or not.

Details

Opens a connection to the Open Justice Oklahoma database using credentials stored in the .Renvirom file. If no credentials exist, prompts for user, password, and host name and provides instructions to store them for future sessions.

Value

A database connection object created with `RPostgres::Postgres()` and either `pool::dbPool` or `DBI::dbConnect`

Side Effects

A connection object (named `ojo_con` or `ojo_pool` depending on the `.pool` argument) is created in the package environment.

See Also

ojo_auth()

Examples

```
## Not run:  
ojo_connect()  
  
## End(Not run)
```

ojo_county_population *Get population data by county for Oklahoma from the Census Bureau's American Community Survey*

Description

Summarizes and manipulates the PEP series to return Oklahoma's population by county for desired years. Useful for calculating per capita rates of county-level data.

Usage

```
ojo_county_population(years)
```

Arguments

years A numeric vector of years for which to get population data

Value

A table of Oklahoma's population by county in each year specified

Examples

```
## Not run:  
ojo_county_population(2018)  
  
## End(Not run)
```

`ojo_crim_cases`*Query criminal cases from the OJO database*

Description

Query the Open Justice Oklahoma database for criminal cases with a case type of 'CM' (misdemeanor) or 'CF' (felony)

Usage

```
ojo_crim_cases(  
  districts = "all",  
  vars = NULL,  
  case_types = c("CM", "CF", "TR"),  
  file_years = 2000:lubridate::year(Sys.Date()),  
  ...  
)
```

Arguments

<code>districts</code>	A character vector of districts to query
<code>vars</code>	A character vector of variables to return
<code>case_types</code>	A character vector of case types to query
<code>file_years</code>	A character vector of years to query
<code>...</code>	Placeholder for additional arguments

Value

data, a lazy tibble containing the resulting criminal cases

Examples

```
## Not run:  
ojo_crim_cases()  
ojo_crim_cases(districts = c("TULSA", "ADAIR"))  
ojo_crim_cases(vars = "all")  
ojo_crim_cases(vars = c("updated_at", "created_at"))  
  
## End(Not run)
```

ojo_env	<i>OJO Environment</i>
---------	------------------------

Description

Get the environment of the OJO package, which holds the database pool object.

Usage

```
ojo_env(...)
```

Arguments

...	Placeholder for future arguments
-----	----------------------------------

ojo_eviction_cases	<i>OJO Eviction Cases</i>
--------------------	---------------------------

Description

Collects Oklahoma eviction data for the specified districts (or all of Oklahoma) for the user specified time frame. If date_end is not specified, the most up-to-date data will be collected.

Function uses the latest methodology we use for identifying eviction cases and outcomes in Oklahoma. As that methodology is updated, this function will be updated to reflect those changes.

Usage

```
ojo_eviction_cases(
  districts = "all",
  ...,
  date_start = NULL,
  date_end = NULL,
  more_case_variables = NULL,
  more_issue_variables = NULL,
  get_judgments = TRUE
)
```

Arguments

districts	District codes for which to collect data (default is "all", which collects data for all districts)
...	Placeholder for additional arguments
date_start	Start date for the data collection period
date_end	End date for the data collection period (default is NULL, which collects the most up-to-date data)

`more_case_variables` Additional variables from case table to include in the output

`more_issue_variables` Additional variables from issue table to include in the output

`get_judgments` Logical value indicating whether to include eviction judgment information in the output

Value

A dataframe containing eviction data

Examples

```
## Not run:
ojo_eviction_cases()
ojo_eviction_cases(districts = c("TULSA", "ADAIR"))
ojo_eviction_cases(
  districts = c("TULSA", "ADAIR"),
  date_start = "2020-01-01",
  date_end = "2020-01-31",
  more_issue_variables = disposition_date
)
ojo_eviction_cases(
  districts = c("TULSA", "ADAIR"),
  get_judgments = TRUE
)

## End(Not run)
```

`ojo_fill`

Add OJO styling to a ggplot

Description

Add OJO styling to a ggplot

Usage

```
ojo_fill(numbers = 1:8)
```

Arguments

`numbers` A vector of numbers to use for the color palette

Examples

```
## Not run:
ggplot(ojo_example, aes(file_year, n_cases, color = court)) +
  geom_line(size = 1.5) +
  theme_ojo() +
  ojo_color() +
  scale_x_continuous(
    breaks = 2010:2019,
    limits = c(NA, 2019)
  )

## End(Not run)
```

ojo_fiscal_year	<i>Determine the Oklahoma state fiscal year that a Date falls in</i>
-----------------	--

Description

Returns the Oklahoma state fiscal year (July 1 - June 30) in which a given Date falls.

Usage

```
ojo_fiscal_year(date)
```

Arguments

date An atomic value of class Date

Value

Fiscal year of a Date as an integer

Examples

```
## Not run:
ojo_fiscal_year(ymd("2018-06-30"))
# Returns 2018

ojo_fiscal_year(ymd("2018-07-01"))
# Returns 2019

## End(Not run)
```

`ojo_list_schemas` *List all schemas on the OJO database*

Description

Query the Open Justice Oklahoma database for the names of all schemas

Usage

```
ojo_list_schemas(..., .con = NULL)
```

Arguments

<code>...</code>	Placeholder
<code>.con</code>	The OJO database connection to use

Value

data, a tibble containing the names of all schemas

Examples

```
## Not run:
ojo_list_schemas()

## End(Not run)
```

`ojo_list_tables` *List all tables on the OJO database*

Description

Query the Open Justice Oklahoma database for the names of all tables

Usage

```
ojo_list_tables(schema = "public", ..., .con = NULL)
```

Arguments

<code>schema</code>	The name of the schema to query
<code>...</code>	Placeholder for additional arguments
<code>.con</code>	The OJO database connection to use

Value

data, a tibble containing the names of all tables

Examples

```
## Not run:
ojo_list_tables()
ojo_list_tables("all")
ojo_list_tables("iic")

## End(Not run)
```

ojo_list_vars	<i>List all variables in a table on the ojodb database</i>
---------------	--

Description

Query the Open Justice Oklahoma database for the names of all variables in a table

Usage

```
ojo_list_vars(table, schema = "public", ..., .con = NULL)
```

Arguments

table	The name of the table to query
schema	The name of the schema to query
...	Placeholder for additional arguments
.con	The ojodb connection to use

Value

data, a tibble containing the names of all variables in a table

Examples

```
## Not run:
ojo_list_vars("case")
ojo_list_vars("inmate", "iic")

## End(Not run)
```

`ojo_pal`*Add OJO styling to a ggplot*

Description

Add OJO styling to a ggplot

Usage`ojo_pal`**Format**

An object of class character of length 8.

Examples

```
## Not run:
ggplot(ojo_example, aes(file_year, n_cases, color = court)) +
  geom_line(size = 1.5) +
  theme_ojo() +
  ojo_color() +
  scale_x_continuous(
    breaks = 2010:2019,
    limits = c(NA, 2019)
  )

## End(Not run)
```

`ojo_query`*OJO Query*

Description

Query the Open Justice Oklahoma database

Usage`ojo_query(query, ..., .con = NULL)`**Arguments**

<code>query</code>	The query to send to ojodb
<code>...</code>	Arguments to pass to <code>glue::glue_sql</code>
<code>.con</code>	The ojodb connection to use

Value

data, a tibble containing the results of the query

Examples

```
## Not run:
ojo_query("SELECT * FROM \"case\" LIMIT 10")
ojo_query("SELECT * FROM iic.inmate LIMIT 10")

## End(Not run)
```

ojo_search_minutes	<i>Query minutes for a given search term</i>
--------------------	--

Description

Query the Open Justice Oklahoma database for minutes matching a search term

Usage

```
ojo_search_minutes(query, ..., .con = NULL, .silent = F)
```

Arguments

query	A term or phrase to search for using the PostgreSQL full text search syntax
...	Placeholder
.con	The OJO connection to use
.silent	Should the command line interface elements be shown? Defaults to TRUE if the user is in an interactive session, and FALSE if they are not.

Value

data, a lazy tibble containing the resulting minutes

Examples

```
## Not run:

# Minutes containing words like 'mcgirt'
ojo_search_minutes("mcgirt")

# Minutes containing 'mcgirt' AND 'jurisdiction'
ojo_search_minutes("mcgirt & jurisdiction")

# Minutes containing 'mcgirt' OR 'jurisdiction'
ojo_search_minutes("mcgirt | jurisdiction")
```

```
# Minutes NOT containing 'mcgirt'
## Use sparingly! It is likely to return rows in the hundreds of thousands or millions!
ojo_search_minutes("!! mcgirt")

# Minutes containing 'tribal' FOLLOWED BY 'jurisdiction'
ojo_search_minutes("tribal <-> jurisdiction")

## End(Not run)
```

ojo_show_row *Browse the source court record of a row*

Description

Displays the OSCN court record for a given row in a dataframe with columns named `court` and `casenum`

Usage

```
ojo_show_row(df, row_number)
```

Arguments

`df` A local dataframe with columns named `court` and `casenum`
`row_number` The number of the row of the case to be shown

Value

Nothing

Side effects

Opens a browser window to the OSCN court record

ojo_tbl *Identify a table from the OJO database*

Description

Identifies a table in the OJO database from which to query data. Remember to run `connect_ojo()` to establish a connection before attempting to query and to close the connection afterwards with `disconnect_ojo()`.

Usage

```
ojo_tbl(table, schema = "public", ..., .con = NULL, .source = "postgres")
```

Arguments

table	The name of a table in the OJO database. To get a list of tables, run <code>ojo_list_tables()</code>
schema	The name of a schema in the OJO database. To get a list of schemas, run <code>ojo_list_schemas()</code>
...	Placeholder
.con	The ojodb connection to use
.source	[Experimental] The source of the table. Options are 'postgres', 'gcs_duckdb', and 'gcs_arrow'. Default is 'postgres'.

Value

A pointer to a table that can be passed to dplyr functions and/or pulled into a dataframe using `ojo_collect()`

See Also

`ojo_list_tables()`, `ojo_list_vars()`, `ojo_list_schemas()`

Examples

```
## Not run:
# Identifies the table
ojo_tbl("case")

# Pulls down case information data for every Tulsa felony filed in 2020 into a dataframe d
d <- ojo_tbl("case") %>%
  filter(district == "TULSA", case_type == "CF", year == 2020) %>%
  collect()

## End(Not run)
```

ojo_theme

Style a ggplot in the OJO style

Description

Add OJO styling to a ggplot

Usage

```
ojo_theme()
```

Examples

```
## Not run:
ggplot(ojo_example, aes(file_year, n_cases, color = court)) +
  geom_line(size = 1.5) +
  ojo_theme() +
  ojo_colors() +
  scale_x_continuous(
    breaks = 2010:2019,
    limits = c(NA, 2019)
  )

## End(Not run)
```

ojo_version

OJO Version

Description

Returns the version of the ojodb package.

Usage

```
ojo_version(...)
```

Arguments

... Placeholder for future arguments

Value

A character vector containing the version number of the ojodb package.

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