juRDA.jl

Yue Chu

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Introduction

juRDA is a package for working with Reference Data Archive (RDA) data in Julia.

The package provides user-friendly functions to load RDA SQLite database, check available data sources and datasets, extract data, dictionaries, and supporting documents like protocols etc.

1.1 Installation

The package is pre-installed on RDA analytics environment. To install it for local use, run the following at the Julia REPL:

```julia
import Pkg; Pkg.add(url="https://github.com/RDAORG/juRDA.jl")
```

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Functions

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juRDA.load_rda – Function.

```
load_rda(path=nothing)
```

Opens a connection to the SQLite database at path. Use default path if path is not specified

source

juRDA.rda_countries – Method.

```
rda_countries(; source_name=nothing, source_id=nothing)
```

Return countries, optionally filter by source_name or source_id

source

juRDA.`rda_data` – Method.

rda*data(dataset*name=nothing , dataset_id=nothing)

Load dataset as DataFrame, where dataset is specified by either `dataset_name` or `dataset_id`. To get available datasets, use `rda_datasets()` function

source

juRDA.`rda_data_dict` – Method.

```
rda_data_dict(dataset_name=nothing, dataset_id=nothing)
```

Return data dictionary for dataset specified by either `dataset_name` or `dataset_id`. To get available datasets, use `rda_datasets()` function

source

juRDA.`rda_datasets` – Method.

```
rda_datasets(; doi=false, repo_id=false,
source_name=nothing, source_id=nothing)
```

Retrieve available datasets. If doi = true and/or repo*id = true, then also return doi of dataset and/or repository id on RDA Data Repository. Optionally filter by 'source*name*or*source_id'

source

juRDA.`rda_deaths` – Method.

rda*deaths(source*name=nothing, source*id=nothing, site*name=nothing, site*id=nothing, country*name=nothing, country_iso3=nothing)

Return deaths, optionally filtered by source (`source_name` or `source_id`), site (`site_name` or `site_id`), and/or country (`country_name` or `country_iso3`)

source

juRDA.`rda_schema` – Method.

rda_schema(fields=false)

List tables and fields (schema)

source

juRDA.`rda_sites` – Method.

```
rda_sites(
    source_name=nothing, source_id=nothing,
    country_name=nothing, country_iso3=nothing
    )
```

Return sites, optionally filtered by source (`source_name` or `source_id`) and/or country (`country_name` or `country_iso3`)

source

juRDA.`rda_sources` – Method.

```
rda_sources()
```

Retrieve sources table as a DataFrame

source

juRDA.`rda_table` – Method.

```
rda_table(table_name="")
```

Return the contents of `table_name` as a DataFrame

source