Package: pacta.data.validation (via r-universe)

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Title pacta.data.validation

Version 0.0.0.9000

Description For more information visit <https://rmi.org/>.

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URL https://github.com/RMI-PACTA/pacta.data.validation

BugReports https://github.com/RMI-PACTA/pacta.data.validation/issues

Depends R (>= 3.5)

Imports checkmate, cli, countrycode, dplyr, stringi

Suggests devtools, pkgdown, testthat (>= 3.0.0)

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Config/testthat/edition 3

Config/Needs/website rmi-pacta/pacta.pkgdown.rmitemplate

Repository https://rmi-pacta.r-universe.dev

RemoteUrl https://github.com/rmi-pacta/pacta.data.validation

RemoteRef HEAD

RemoteSha d9647bef85dbcaadbdb7f00c61adab54d0824dd5

Contents

`fake_abcd_flags_bonds` *Create an example* `abcd_flags_bonds` *object*

Description

This function creates an example `abcd_flags_bonds` object.

Usage

```
fake_abcd_flags_bonds(
  credit_parent_id = "000BGD-E",
  has_asset_level_data = TRUE,
  has_ald_in_fin_sector = TRUE,
  sectors_with_assets = "Power + Oil&Gas"
)
```

Arguments

`credit_parent_id`
: value/s to be used for the `credit_parent_id` column

`has_asset_level_data`
: value/s to be used for the `has_asset_level_data` column

`has_ald_in_fin_sector`
: value/s to be used for the `has_ald_in_fin_sector` column

`sectors_with_assets`
: value/s to be used for the `sectors_with_assets` column

Value

A data frame with the specified columns and/or their default values

fake_abcd_flags_equity *Create an example* abcd_flags_equity *object*

Description

This function creates an example abcd_flags_equity object.

Usage

```
fake_abcd_flags_equity(
  isin = "US3140KKGV04",
  has_asset_level_data = TRUE,
  has_ald_in_fin_sector = TRUE,
  sectors_with_assets = "Power + Oil&Gas"
)
```

Arguments

isin	value/s to be used for the isin column
has_asset_level_data	value/s to be used for the has_asset_level_data column
has_ald_in_fin_sector	value/s to be used for the has_ald_in_fin_sector column
sectors_with_assets	value/s to be used for the sectors_with_assets column

Value

A data frame with the specified columns and/or their default values

fake_currencies *Create an example* currencies *object*

Description

This function creates an example currencies object.

Usage

```
fake_currencies(currency = "USD", exchange_rate = 1)
```

Arguments

currency	value/s to be used for the currency column
exchange_rate	value/s to be used for the exchange_rate column

Value

A data frame with the specified columns and/or their default values

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`fake_financial_data` *Create an example* `financial_data` *object*

Description

This function creates an example `financial_data` object.

Usage

```
fake_financial_data(
  isin = "US3140KKGV04",
  unit_share_price = 12.3,
  current_shares_outstanding_all_classes = 333000,
  asset_type = "Equity",
  factset_entity_id = "000Y86-E"
)
```

Arguments

`isin`	value/s to be used for the `isin` column
`unit_share_price`	value/s to be used for the `unit_share_price` column
`current_shares_outstanding_all_classes`	value/s to be used for the `current_shares_outstanding_all_classes` column
`asset_type`	value/s to be used for the `asset_type` column
`factset_entity_id`	value/s to be used for the `factset_entity_id` column

Value

A data frame with the specified columns and/or their default values

`fake_intermediate_scenario_data` *Create an example* `intermediate_scenario_data` *object*

Description

This function creates an example `intermediate_scenario_data` object.

Usage

```
fake_intermediate_scenario_data(
  source = "WEO2022",
  scenario = "NZE_2050",
  scenario_geography = "Global",
  sector = "Power",
  technology = "RenewablesCap",
  indicator = "Capacity: installed",
  units = "GW",
  year = 2025,
  value = 500
)
```

Arguments

`source`	value/s to be used for the `source` column
`scenario`	value/s to be used for the `scenario` column
`scenario_geography`	value/s to be used for the `scenario_geography` column
`sector`	value/s to be used for the `sector` column
`technology`	value/s to be used for the `technology` column
`indicator`	value/s to be used for the `indicator` column
`units`	value/s to be used for the `units` column
`year`	value/s to be used for the `year` column
`value`	value/s to be used for the `value` column

Value

A data frame with the specified columns and/or their default values

`fake_masterdata_debt_datastore` *Create an example* `masterdata_debt_datastore` *object*

Description

This function creates an example `masterdata_debt_datastore` object.

Usage

```
fake_masterdata_debt_datastore(
  id = "8",
  id_name = "credit_parent_ar_company_id",
  ald_sector = "Oil&Gas",
  ald_location = "DE",
  technology = "Gas",
  year = 2022,
  country_of_domicile = "DE",
  ald_production_unit = "GJ",
  ald_production = 52281230,
  ald_emissions_factor_unit = "tonnes of CO2 per GJ",
  ald_emissions_factor = 0.06202439
)
```

Arguments

`id`	value/s to be used for the `id` column
`id_name`	value/s to be used for the `id_name` column
`ald_sector`	value/s to be used for the `ald_sector` column
`ald_location`	value/s to be used for the `ald_location` column
`technology`	value/s to be used for the `technology` column
`year`	value/s to be used for the `year` column
`country_of_domicile`	value/s to be used for the `country_of_domicile` column
`ald_production_unit`	value/s to be used for the `ald_production_unit` column
`ald_production`	value/s to be used for the `ald_production` column
`ald_emissions_factor_unit`	value/s to be used for the `ald_emissions_factor_unit` column
`ald_emissions_factor`	value/s to be used for the `ald_emissions_factor` column

Value

A data frame with the specified columns and/or their default values

fake_masterdata_ownership_datastore *Create an example* masterdata_ownership_datastore *object*

Description

This function creates an example masterdata_ownership_datastore object.

Usage

```
fake_masterdata_ownership_datastore(
  id = "8",
  id_name = "ar_company_id",
  ald_sector = "Oil&Gas",
  ald_location = "DE",
  technology = "Gas",
  year = 2022,
  ald_production = 52281230,
  ald_production_unit = "GJ",
  ald_emissions_factor = 0.06202439,
  ald_emissions_factor_unit = "tonnes of CO2 per GJ",
  country_of_domicile = "DE"
)
```

Arguments

id	value/s to be used for the id column
id_name	value/s to be used for the id_name column
ald_sector	value/s to be used for the ald_sector column
ald_location	value/s to be used for the ald_location column
technology	value/s to be used for the technology column
year	value/s to be used for the year column
ald_production	value/s to be used for the ald_production column
ald_production_unit	value/s to be used for the ald_production_unit column
ald_emissions_factor	value/s to be used for the ald_emissions_factor column
ald_emissions_factor_unit	value/s to be used for the ald_emissions_factor_unit column
country_of_domicile	value/s to be used for the country_of_domicile column

Value

A data frame with the specified columns and/or their default values

is_valid_isin *Validate a vector of ISINs*

Description

This function validates that a vector of ISINs are valid codes that conform to the ISO 6166 specification with TRUE or FALSE. It checks the basic structure (2 alpha characters, 9 alpha-numeric characters, 1 check digit) and also validates the check digit using the Luhn algorithm.

Usage

```
is_valid_isin(isins)
```

Arguments

isins	A character vector

Value

A logical vector the same length as isins.

validate_abcd_flags_bonds *Validate a* abcd_flags_bonds *object*

Description

This function validates that an object is a valid abcd_flags_bonds dataset.

Usage

```
validate_abcd_flags_bonds(data)
```

Arguments

data	An object (typically a data frame)

Value

TRUE if the object is valid, otherwise an error with a message explaining the failed assertions

validate_abcd_flags_equity *Validate a* abcd_flags_equity *object*

Description

This function validates that an object is a valid abcd_flags_equity dataset.

Usage

```
validate_abcd_flags_equity(data)
```

Arguments

data	An object (typically a data frame)

Value

TRUE if the object is valid, otherwise an error with a message explaining the failed assertions

validate_currencies *Validate a* currencies *object*

Description

This function validates that an object is a valid currencies dataset.

Usage

```
validate_currencies(data)
```

Arguments

data	An object (typically a data frame)

Value

TRUE if the object is valid, otherwise an error with a message explaining the failed assertions

validate_financial_data

Validate a `financial_data` *object*

Description

This function validates that an object is a valid `financial_data` dataset.

Usage

```
validate_financial_data(data)
```

Arguments

`data`	An object (typically a data frame)

Value

`TRUE` if the object is valid, otherwise an error with a message explaining the failed assertions

validate_intermediate_scenario_output

Validate an intermediate scenario object

Description

This function validates that an object is a valid intermediate scenario dataset (e.g. `weo_2022`, `geco_2022`, or more generally, `publication_YYYY`).

Usage

```
validate_intermediate_scenario_output(data)
```

Arguments

`data`	An object (typically a data frame)

Value

`TRUE` if the object is valid, otherwise an error with a message explaining the failed assertions

validate_masterdata_debt_datastore *Validate a* masterdata_debt_datastore *object*

Description

This function validates that an object is a valid masterdata_debt_datastore dataset.

Usage

```
validate_masterdata_debt_datastore(data)
```

Arguments

data	An object (typically a data frame)

Value

TRUE if the object is valid, otherwise an error with a message explaining the failed assertions

validate_masterdata_ownership_datastore *Validate a* masterdata_ownership_datastore *object*

Description

This function validates that an object is a valid masterdata_ownership_datastore dataset.

Usage

```
validate_masterdata_ownership_datastore(data)
```

Arguments

data	An object (typically a data frame)

Value

TRUE if the object is valid, otherwise an error with a message explaining the failed assertions

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