Package 'youthvars'

August 4, 2021

Title Youth Mental Health Variables Modelling Toolkit

Version 0.0.0.9061

Description Classes that describe the structural properties of variables commonly present in youth mental health datasets and some (where freely available) related scoring algorithms. The main motivation for this package is to enable data integrity tools that ensure that methods are applied to the appropriate data structures. This development version of the youthvars package has been made available as part of the process of testing and documenting the package. The documentation for this package has been automatically generated by the ready4fun package and is therefore quite rudimentary. Human authored documentation will follow in 2021. If you have any questions, please contact the authors (matthew.hamilton@orygen.org.au).

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URL https://ready4-dev.github.io/youthvars/,
https://github.com/ready4-dev/youthvars,
https://ready4-dev.github.io/ready4/

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

Imports arsenal,
assertthat,
cowplot,
dplyr,
ggplot2,
ggpubr,
gridExtra,
here,
Hmisc,
hutils,
kableExtra,
knitr,
knitrBootstrap,
lifecycle,
lubridate,

magrittr,
Matrix,
matrixcalc,
methods,
mice,
psych,
purrr,
ready4fun (>= 0.0.0.9298),
ready4show (>= 0.0.0.9037),
ready4use (>= 0.0.0.9133),
rlang,
scales,
simstudy,
stats,
stringi,
stringr,
Surrogate,
testthat,
tibble,
tidyselect,
utils

VignetteBuilder knitr

Depends R (>= 2.10)

Remotes ready4-dev/ready4show,
ready4-dev/ready4use,
ready4-dev/ready4fun

Suggests rmarkdown

R topics documented:

youthvars-package *youthvars: Youth Mental Health Variables Modelling Toolkit*

Description

Classes that describe the structural properties of variables commonly present in youth mental health datasets and some (where freely available) related scoring algorithms. The main motivation for this package is to enable data integrity tools that ensure that methods are applied to the appropriate data structures. This development version of the youthvars package has been made available as part of the process of testing and documenting the package. The documentation for this package has been automatically generated by the ready4fun package and is therefore quite rudimentary. Human authored documentation will follow in 2021. If you have any questions, please contact the authors (matthew.hamilton@orygen.org.au).

Details

To learn more about youthvars, start with the vignettes: `browseVignettes(package = "youthvars")`

Author(s)

Maintainer: Matthew Hamilton <matthew.hamilton@orygen.org.au> (ORCID)

Authors:

- Caroline Gao <caroline.gao@orygen.org.au> (ORCID)

Other contributors:

- Orygen [copyright holder, funder]
- Headspace [funder]
- National Health and Medical Research Council [funder]

See Also

Useful links:

- https://ready4-dev.github.io/youthvars/
- https://github.com/ready4-dev/youthvars
- https://ready4-dev.github.io/ready4/

abbreviations_lup *Common abbreviations lookup table*

Description

A lookup table for abbreviations commonly used in object names in the youthvarspackage.

Usage

```
abbreviations_lup
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 503 rows and 3 columns.

Details

A tibble

short_name_chr Short name (a character vector)

long_name_chr Long name (a character vector)

plural_lgl Plural (a logical vector)

Source

https://doi.org/10.7910/DVN/2Y9VF9

add_adol6d_scores *Add Assessment of Quality of Life Six Dimension (Adolescent version) scores*

Description

add_adol6d_scores() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add assessment of quality of life six dimension (adolescent version) scores. Function argument unscored_aqol_tb specifies the object to be updated. The function returns Transformed Assessment of Quality of Life (a tibble).

Usage

```
add_adol6d_scores(
  unscored_aqol_tb,
  prefix_1L_chr = "aqol6d_q",
  id_var_nm_1L_chr = "fkClientID",
  wtd_aqol_var_nm_1L_chr = "aqol6d_total_w",
  total_aqol_var_nm_1L_chr = "aqol6d_total_c"
)
```

Arguments

unscored_aqol_tb	Unscored Assessment of Quality of Life (a tibble)
prefix_1L_chr	Prefix (a character vector of length one), Default: 'aqol6d_q'
id_var_nm_1L_chr	Identity variable name (a character vector of length one), Default: 'fkClientID'
wtd_aqol_var_nm_1L_chr	Weighted Assessment of Quality of Life variable name (a character vector of length one), Default: 'aqol6d_total_w'
total_aqol_var_nm_1L_chr	Total Assessment of Quality of Life variable name (a character vector of length one), Default: 'aqol6d_total_c'

Value

Transformed Assessment of Quality of Life (a tibble)

---

add_aqol6dU_to_aqol6d_items_tb

Add Assessment of Quality of Life Six Dimension Health Utility to Assessment of Quality of Life Six Dimension items

---

Description

add_aqol6dU_to_aqol6d_items_tb() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add assessment of quality of life six dimension health utility to assessment of quality of life six dimension items tibble. Function argument aqol6d_items_tb specifies the object to be updated. The function returns Assessment of Quality of Life Six Dimension items (a tibble).

Usage

```
add_aqol6dU_to_aqol6d_items_tb(
  aqol6d_items_tb,
  coefs_lup_tb = aqol6d_from_8d_coefs_lup_tb
)
```

Arguments

aqol6d_items_tb	Assessment of Quality of Life Six Dimension items (a tibble)
coefs_lup_tb	Coefficients lookup table (a tibble), Default: aqol6d_from_8d_coefs_lup_tb

Value

Assessment of Quality of Life Six Dimension items (a tibble)

add_aqol6dU_to_aqol6d_tbs_ls

Add Assessment of Quality of Life Six Dimension Health Utility to Assessment of Quality of Life Six Dimension tibbles

Description

add_aqol6dU_to_aqol6d_tbs_ls() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add assessment of quality of life six dimension health utility to assessment of quality of life six dimension tibbles list. Function argument aqol6d_tbs_ls specifies the object to be updated. The function returns Assessment of Quality of Life Six Dimension tibbles (a list).

Usage

```
add_aqol6dU_to_aqol6d_tbs_ls(
  aqol6d_tbs_ls,
  prefix_1L_chr = "aqol6d_q",
  id_var_nm_1L_chr
)
```

Arguments

aqol6d_tbs_ls	Assessment of Quality of Life Six Dimension tibbles (a list)
prefix_1L_chr	Prefix (a character vector of length one), Default: 'aqol6d_q'
id_var_nm_1L_chr	Identity variable name (a character vector of length one)

Value

Assessment of Quality of Life Six Dimension tibbles (a list)

add_aqol6d_adol_dim_scrg_eqs

Add Assessment of Quality of Life Six Dimension adolescent dimension scoring equations

Description

add_aqol6d_adol_dim_scrg_eqs() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add assessment of quality of life six dimension adolescent dimension scoring equations. Function argument unscored_aqol_tb specifies the object to be updated. The function returns Unscored Assessment of Quality of Life (a tibble).

Usage

```
add_aqol6d_adol_dim_scrg_eqs(unscored_aqol_tb)
```

Arguments

`unscored_aqol_tb`
: Unscored Assessment of Quality of Life (a tibble)

Value

Unscored Assessment of Quality of Life (a tibble)

`add_aqol6d_items_to_aqol6d_tbs_ls`
: *Add Assessment of Quality of Life Six Dimension items to Assessment of Quality of Life Six Dimension tibbles*

Description

add_aqol6d_items_to_aqol6d_tbs_ls() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add assessment of quality of life six dimension items to assessment of quality of life six dimension tibbles list. Function argument aqol6d_tbs_ls specifies the object to be updated. The function returns Updated Assessment of Quality of Life Six Dimension tibbles (a list).

Usage

```
add_aqol6d_items_to_aqol6d_tbs_ls(
  aqol6d_tbs_ls,
  aqol_items_prpns_tbs_ls,
  prefix_chr,
  aqol_tots_var_nms_chr,
  id_var_nm_1L_chr = "fkClientID",
  scaling_cnst_dbl = 5
)
```

Arguments

`aqol6d_tbs_ls`
: Assessment of Quality of Life Six Dimension tibbles (a list)

`aqol_items_prpns_tbs_ls`
: Assessment of Quality of Life items proportions tibbles (a list)

`prefix_chr`
: Prefix (a character vector)

`aqol_tots_var_nms_chr`
: Assessment of Quality of Life totals variable names (a character vector)

`id_var_nm_1L_chr`
: Identity variable name (a character vector of length one), Default: 'fkClientID'

`scaling_cnst_dbl`
: Scaling cnst (a double vector), Default: 5

Value

Updated Assessment of Quality of Life Six Dimension tibbles (a list)

`add_cors_and_utls_to_aqol6d_tbs_ls` *Add correlations and utilities to Assessment of Quality of Life Six Dimension tibbles*

Description

add_cors_and_utls_to_aqol6d_tbs_ls() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add correlations and utilities to assessment of quality of life six dimension tibbles list. Function argument aqol6d_tbs_ls specifies the object to be updated. The function returns Assessment of Quality of Life Six Dimension tibbles (a list).

Usage

```
add_cors_and_utls_to_aqol6d_tbs_ls(
  aqol6d_tbs_ls,
  aqol_scores_pars_ls,
  aqol_items_prpns_tbs_ls,
  temporal_cors_ls,
  prefix_chr,
  aqol_tots_var_nms_chr,
  id_var_nm_1L_chr = "fkClientID"
)
```

Arguments

`aqol6d_tbs_ls`	Assessment of Quality of Life Six Dimension tibbles (a list)
`aqol_scores_pars_ls`	Assessment of Quality of Life scores parameters (a list)
`aqol_items_prpns_tbs_ls`	Assessment of Quality of Life items proportions tibbles (a list)
`temporal_cors_ls`	Temporal correlations (a list)
`prefix_chr`	Prefix (a character vector)
`aqol_tots_var_nms_chr`	Assessment of Quality of Life totals variable names (a character vector)
`id_var_nm_1L_chr`	Identity variable name (a character vector of length one), Default: 'fkClientID'

Value

Assessment of Quality of Life Six Dimension tibbles (a list)

add_dim_disv_to_aqol6d_items_tb

Add dimension disvalue to Assessment of Quality of Life Six Dimension items

Description

add_dim_disv_to_aqol6d_items_tb() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add dimension disvalue to assessment of quality of life six dimension items tibble. Function argument aqol6d_items_tb specifies the object to be updated. The function returns Assessment of Quality of Life Six Dimension items (a tibble).

Usage

```
add_dim_disv_to_aqol6d_items_tb(
  aqol6d_items_tb,
  domain_items_ls,
  domains_chr,
  dim_sclg_con_lup_tb = NULL,
  itm_wrst_wghts_lup_tb = NULL
)
```

Arguments

aqol6d_items_tb	Assessment of Quality of Life Six Dimension items (a tibble)
domain_items_ls	Domain items (a list)
domains_chr	Domains (a character vector)
dim_sclg_con_lup_tb	Dimension scaling constant lookup table (a tibble), Default: NULL
itm_wrst_wghts_lup_tb	Item worst wghts lookup table (a tibble), Default: NULL

Value

Assessment of Quality of Life Six Dimension items (a tibble)

add_dim_scores_to_aqol6d_items_tb

Add dimension scores to Assessment of Quality of Life Six Dimension items

Description

add_dim_scores_to_aqol6d_items_tb() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add dimension scores to assessment of quality of life six dimension items tibble. Function argument aqol6d_items_tb specifies the object to be updated. The function returns Assessment of Quality of Life Six Dimension items (a tibble).

Usage

```
add_dim_scores_to_aqol6d_items_tb(aqol6d_items_tb, domain_items_ls)
```

Arguments

aqol6d_items_tb	Assessment of Quality of Life Six Dimension items (a tibble)
domain_items_ls	Domain items (a list)

Value

Assessment of Quality of Life Six Dimension items (a tibble)

---

add_interval_var *Add interval variable*

Description

add_interval_var() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add interval variable. Function argument data_tb specifies the object to be updated. The function returns Updated data (a tibble).

Usage

```
add_interval_var(
  data_tb,
  id_var_nm_1L_chr = "fkClientID",
  msrmnt_date_var_nm_1L_chr = "d_interview_date",
  time_unit_1L_chr = "days",
  bl_date_var_nm_1L_chr = "bl_date_dtm",
  interval_var_nm_1L_chr = "interval_dbl",
  temp_row_nbr_var_nm_1L_chr = "temp_row_nbr_int",
  drop_bl_date_var_1L_lgl = F
)
```

Arguments

data_tb	Data (a tibble)
id_var_nm_1L_chr	Identity variable name (a character vector of length one), Default: 'fkClientID'
msrmnt_date_var_nm_1L_chr	Measurement date variable name (a character vector of length one), Default: 'd_interview_date'
time_unit_1L_chr	Time unit (a character vector of length one), Default: 'days'
bl_date_var_nm_1L_chr	Baseline date variable name (a character vector of length one), Default: 'bl_date_dtm'
interval_var_nm_1L_chr	Interval variable name (a character vector of length one), Default: 'interval_dbl'

temp_row_nbr_var_nm_1L_chr
: Temporary row number variable name (a character vector of length one), Default: 'temp_row_nbr_int'

drop_bl_date_var_1L_lgl
: Drop baseline date variable (a logical vector of length one), Default: F

Value

Updated data (a tibble)

---

add_itm_disv_to_aqol6d_itms_tb

Add item disvalue to Assessment of Quality of Life Six Dimension items

---

Description

add_itm_disv_to_aqol6d_itms_tb() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add item disvalue to assessment of quality of life six dimension items tibble. Function argument aqol6d_items_tb specifies the object to be updated. The function returns Assessment of Quality of Life Six Dimension items (a tibble).

Usage

```
add_itm_disv_to_aqol6d_itms_tb(
  aqol6d_items_tb,
  disvalues_lup_tb = NULL,
  pfx_1L_chr
)
```

Arguments

aqol6d_items_tb
: Assessment of Quality of Life Six Dimension items (a tibble)

disvalues_lup_tb
: Disvalues lookup table (a tibble), Default: NULL

pfx_1L_chr
: Prefix (a character vector of length one)

Value

Assessment of Quality of Life Six Dimension items (a tibble)

add_labels_to_aqol6d_tb *Add labels to Assessment of Quality of Life Six Dimension*

Description

add_labels_to_aqol6d_tb() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add labels to assessment of quality of life six dimension tibble. Function argument aqol6d_tb specifies the object to be updated. The function returns Assessment of Quality of Life Six Dimension (a tibble).

Usage

```
add_labels_to_aqol6d_tb(aqol6d_tb, labels_chr = NA_character_)
```

Arguments

aqol6d_tb	Assessment of Quality of Life Six Dimension (a tibble)
labels_chr	Labels (a character vector), Default: 'NA'

Value

Assessment of Quality of Life Six Dimension (a tibble)

add_participation_var *Add participation variable*

Description

add_participation_var() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add participation variable. Function argument data_tb specifies the object to be updated. The function returns Data (a tibble).

Usage

```
add_participation_var(
  data_tb,
  id_var_nm_1L_chr = "fkClientID",
  fup_round_nmbr_1L_int = 2L
)
```

Arguments

data_tb	Data (a tibble)
id_var_nm_1L_chr	Identity variable name (a character vector of length one), Default: 'fkClientID'
fup_round_nmbr_1L_int	Follow-up round nmbr (an integer vector of length one), Default: 2

Value

Data (a tibble)

`add_unwtd_dim_tots` *Add unwtd dimension totals*

Description

add_unwtd_dim_tots() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add unwtd dimension totals. Function argument items_tb specifies the object to be updated. The function returns Items and domains (a tibble).

Usage

```
add_unwtd_dim_tots(items_tb, domain_items_ls, domain_pfx_1L_chr)
```

Arguments

`items_tb`	Items (a tibble)
`domain_items_ls`	Domain items (a list)
`domain_pfx_1L_chr`	Domain prefix (a character vector of length one)

Value

Items and domains (a tibble)

`add_wtd_dim_tots` *Add weighted dimension totals*

Description

add_wtd_dim_tots() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add weighted dimension totals. Function argument unwtd_dim_tb specifies the object to be updated. The function returns Weighted and unwtd dimension (a tibble).

Usage

```
add_wtd_dim_tots(
  unwtd_dim_tb,
  domain_items_ls,
  domain_unwtd_pfx_1L_chr,
  domain_wtd_pfx_1L_chr
)
```

Arguments

`unwtd_dim_tb`	Unwtd dimension (a tibble)
`domain_items_ls`	Domain items (a list)
`domain_unwtd_pfx_1L_chr`	Domain unwtd prefix (a character vector of length one)
`domain_wtd_pfx_1L_chr`	Domain weighted prefix (a character vector of length one)

Value

Weighted and unwtd dimension (a tibble)

`adol_dim_scalg_eqs_lup` *AQoL6D (adolescent) item worst weightings equations lookup table*

Description

Dimension scaling equations for adolescent version of AQoL6D scoring algorithm.

Usage

```
adol_dim_scalg_eqs_lup
```

Format

An object of class `data.frame` with 19 rows and 3 columns.

Details

A tibble

Dim_scal NO MATCH

Label NO MATCH

Equ NO MATCH

Source

https://www.aqol.com.au/index.php/scoring-algorithms

aqol6d_adult_disv_lup_tb

AQoL6D (adult version) item disvalues lookup table

Description

Disutility weights for individual AQoL6D (adult version) items.

Usage

```
aqol6d_adult_disv_lup_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 20 rows and 7 columns.

Details

A tibble

Question_chr Question (a character vector)

Answer_1_dbl Answer 1 (a double vector)

Answer_2_dbl Answer 2 (a double vector)

Answer_3_dbl Answer 3 (a double vector)

Answer_4_dbl Answer 4 (a double vector)

Answer_5_dbl Answer 5 (a double vector)

Answer_6_dbl Answer 6 (a double vector)

Source

https://www.aqol.com.au/index.php/scoring-algorithms

aqol6d_adult_itm_wrst_wghts_lup_tb

AQoL6D (adult) item worst weightings lookup table

Description

Worst weightings for individual items in AQoL6D (adult version).

Usage

```
aqol6d_adult_itm_wrst_wghts_lup_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 20 rows and 2 columns.

Details

A tibble

Question_chr Question (a character vector)

Worst_Weight_dbl Worst Weight (a double vector)

Source

https://www.aqol.com.au/index.php/scoring-algorithms

---

aqol6d_adult_vldn_pop_with_STATA_scores_tb

STATA comparison validation synthetic population

Description

Synthetic population following application of STATA adult scoring algorithm.

Usage

```
aqol6d_adult_vldn_pop_with_STATA_scores_tb
```

Format

An object of class `data.frame` with 1711 rows and 87 columns.

Details

A tibble

v1 NO MATCH

aqol1 NO MATCH

aqol2 NO MATCH

aqol3 NO MATCH

aqol4 NO MATCH

aqol5 NO MATCH

aqol6 NO MATCH

aqol7 NO MATCH

aqol8 NO MATCH

aqol9 NO MATCH

aqol10 NO MATCH

aqol11 NO MATCH

aqol12 NO MATCH

aqol13 NO MATCH

aqol14 NO MATCH

aqol15 NO MATCH

aqol16 NO MATCH
aqol17 NO MATCH
aqol18 NO MATCH
aqol19 NO MATCH
aqol20 NO MATCH
Q1 NO MATCH
Q2 NO MATCH
Q3 NO MATCH
Q4 NO MATCH
Q5 NO MATCH
Q6 NO MATCH
Q7 NO MATCH
Q8 NO MATCH
Q9 NO MATCH
Q10 NO MATCH
Q11 NO MATCH
Q12 NO MATCH
Q13 NO MATCH
Q14 NO MATCH
Q15 NO MATCH
Q16 NO MATCH
Q17 NO MATCH
Q18 NO MATCH
Q19 NO MATCH
Q20 NO MATCH
DILmiss NO MATCH
DILmissno NO MATCH
DRLmiss NO MATCH
DRLmissno NO MATCH
DMHmiss NO MATCH
DMHmissno NO MATCH
DCOPmiss NO MATCH
DCOPmissno NO MATCH
DPmiss NO MATCH
DPmissno NO MATCH
DSENmiss NO MATCH
DSENmissno NO MATCH
dvQ1 NO MATCH
dvQ2 NO MATCH
dvQ3 NO MATCH

dvQ4 NO MATCH

dvQ5 NO MATCH

dvQ6 NO MATCH

dvQ7 NO MATCH

dvQ8 NO MATCH

dvQ9 NO MATCH

dvQ10 NO MATCH

dvQ11 NO MATCH

dvQ12 NO MATCH

dvQ13 NO MATCH

dvQ14 NO MATCH

dvQ15 NO MATCH

dvQ16 NO MATCH

dvQ17 NO MATCH

dvQ18 NO MATCH

dvQ19 NO MATCH

dvQ20 NO MATCH

dvD1 NO MATCH

dvD2 NO MATCH

dvD3 NO MATCH

dvD4 NO MATCH

dvD5 NO MATCH

dvD6 NO MATCH

vD1 NO MATCH

vD2 NO MATCH

vD3 NO MATCH

vD4 NO MATCH

vD5 NO MATCH

vD6 NO MATCH

uaqol6Dusing8D NO MATCH

uaqol6Dusing8Da NO MATCH

Source

https://www.aqol.com.au/index.php/scoring-algorithms

aqol6d_dim_sclg_con_lup_tb

AQoL6D dimension scaling constants lookup table

Description

Scaling constants for each dimension of AQoL6D.

Usage

```
aqol6d_dim_sclg_con_lup_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 6 rows and 2 columns.

Details

A tibble

Dimension_chr Dimension (a character vector)
Constant_dbl Constant (a double vector)

Source

https://www.aqol.com.au/index.php/scoring-algorithms

aqol6d_domain_qs_lup_tb

AQoL6D dimension questions lookup table

Description

Breakdown of which questions relate to which dimension of the AQoL6D.

Usage

```
aqol6d_domain_qs_lup_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 20 rows and 2 columns.

Details

A tibble

Question_dbl Question (a double vector)
Domain_chr Domain (a character vector)

Source

https://www.aqol.com.au/index.php/scoring-algorithms

aqol6d_from_8d_coefs_lup_tb *Model 2A Coefficients To Weight AQoL6D*

Description

Coefficients for model to predict AQoL-6D utility score from AQoL-8D. The optimal model is Model 2A (see Richardson et al (2011, 18-19)*/

Usage

```
aqol6d_from_8d_coefs_lup_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 7 rows and 2 columns.

Details

A tibble

var_name_chr Variable name (a character vector)

coef_dbl Coefficient (a double vector)

Source

https://www.aqol.com.au/index.php/scoring-algorithms

aqol_scrg_dict_r3 *Data dictionary for AQoL scoring*

Description

A data dictionary of the variables used in scoring AQoL 6D utility questionnaire responses.

Usage

```
aqol_scrg_dict_r3
```

Format

An object of class `ready4_dictionary` (inherits from `tbl_df`, `tbl`, `data.frame`) with 60 rows and 4 columns.

Details

A tibble

var_nm_chr Variable name (a character vector)

var_ctg_chr Variable category categories (a character vector)

var_desc_chr Variable description (a character vector)

var_type_chr Variable type (a character vector)

assert_ds_is_valid *Assert dataset is valid*

Description

assert_ds_is_valid() is an Assert function that validates that an object conforms to required condition(s). If the object does not meet all required conditions, program execution will be stopped and an error message provided. Specifically, this function implements an algorithm to assert dataset is valid. Function argument data_tb specifies the object on which assert validation checks are to be performed. Argument id_var_nm_1L_chr provides the object containing values used for validation tests. The function is called for its side effects and does not return a value.

Usage

```
assert_ds_is_valid(
  data_tb,
  id_var_nm_1L_chr,
  round_var_nm_1L_chr,
  round_bl_val_1L_chr,
  msrmnt_date_var_nm_1L_chr = NULL
)
```

Arguments

data_tb	Data (a tibble)
id_var_nm_1L_chr	Identity variable name (a character vector of length one)
round_var_nm_1L_chr	Round variable name (a character vector of length one)
round_bl_val_1L_chr	Round baseline value (a character vector of length one)
msrmnt_date_var_nm_1L_chr	Measurement date variable name (a character vector of length one), Default: NULL

calculate_adol_aqol6dU *Calculate adolescent Assessment of Quality of Life Six Dimension Health Utility*

Description

calculate_adol_aqol6dU() is a Calculate function that performs a numeric calculation. Specifically, this function implements an algorithm to calculate adolescent assessment of quality of life six dimension health utility. The function returns Adolescent Assessment of Quality of Life Six Dimension (a double vector).

Usage

```
calculate_adol_aqol6dU(
  unscored_aqol_tb,
  prefix_1L_chr = "aqol6d_q",
  id_var_nm_1L_chr = "fkClientID",
  wtd_aqol_var_nm_1L_chr = "aqol6d_total_w"
)
```

Arguments

`unscored_aqol_tb`
: Unscored Assessment of Quality of Life (a tibble)

`prefix_1L_chr`
: Prefix (a character vector of length one), Default: 'aqol6d_q'

`id_var_nm_1L_chr`
: Identity variable name (a character vector of length one), Default: 'fkClientID'

`wtd_aqol_var_nm_1L_chr`
: Weighted Assessment of Quality of Life variable name (a character vector of length one), Default: 'aqol6d_total_w'

Value

Adolescent Assessment of Quality of Life Six Dimension (a double vector)

---

calculate_adult_aqol6dU

Calculate adult Assessment of Quality of Life Six Dimension Health Utility

---

Description

calculate_adult_aqol6dU() is a Calculate function that performs a numeric calculation. Specifically, this function implements an algorithm to calculate adult assessment of quality of life six dimension health utility. The function returns Assessment of Quality of Life Six Dimension Health Utility (a double vector).

Usage

```
calculate_adult_aqol6dU(
  aqol6d_items_tb,
  prefix_1L_chr,
  coefs_lup_tb = NULL,
  dim_sclg_con_lup_tb = NULL,
  disvalues_lup_tb = NULL,
  itm_wrst_wghts_lup_tb = NULL
)
```

Arguments

aqol6d_items_tb	Assessment of Quality of Life Six Dimension items (a tibble)
prefix_1L_chr	Prefix (a character vector of length one)
coefs_lup_tb	Coefficients lookup table (a tibble), Default: NULL
dim_sclg_con_lup_tb	Dimension scaling constant lookup table (a tibble), Default: NULL
disvalues_lup_tb	Disvalues lookup table (a tibble), Default: NULL
itm_wrst_wghts_lup_tb	Item worst wghts lookup table (a tibble), Default: NULL

Value

Assessment of Quality of Life Six Dimension Health Utility (a double vector)

---

calculate_aqol6d_dim_1_disv

Calculate Assessment of Quality of Life Six Dimension dimension 1 disvalue

---

Description

calculate_aqol6d_dim_1_disv() is a Calculate function that performs a numeric calculation. Specifically, this function implements an algorithm to calculate assessment of quality of life six dimension dimension 1 disvalue. The function returns DvD1 (a double vector).

Usage

```
calculate_aqol6d_dim_1_disv(dvQs_tb, kD_1L_dbl, w_dbl)
```

Arguments

dvQs_tb	DvQs (a tibble)
kD_1L_dbl	KD (a double vector of length one)
w_dbl	W (a double vector)

Value

DvD1 (a double vector)

calculate_aqol6d_dim_2_disv

Calculate Assessment of Quality of Life Six Dimension dimension 2 disvalue

Description

calculate_aqol6d_dim_2_disv() is a Calculate function that performs a numeric calculation. Specifically, this function implements an algorithm to calculate assessment of quality of life six dimension dimension 2 disvalue. The function returns DvD2 (a double vector).

Usage

```
calculate_aqol6d_dim_2_disv(dvQs_tb, kD_1L_dbl, w_dbl)
```

Arguments

dvQs_tb	DvQs (a tibble)
kD_1L_dbl	KD (a double vector of length one)
w_dbl	W (a double vector)

Value

DvD2 (a double vector)

calculate_aqol6d_dim_3_disv

Calculate Assessment of Quality of Life Six Dimension dimension 3 disvalue

Description

calculate_aqol6d_dim_3_disv() is a Calculate function that performs a numeric calculation. Specifically, this function implements an algorithm to calculate assessment of quality of life six dimension dimension 3 disvalue. The function returns DvD3 (a double vector).

Usage

```
calculate_aqol6d_dim_3_disv(dvQs_tb, kD_1L_dbl, w_dbl)
```

Arguments

dvQs_tb	DvQs (a tibble)
kD_1L_dbl	KD (a double vector of length one)
w_dbl	W (a double vector)

Value

DvD3 (a double vector)

`calculate_aqol6d_dim_4_disv`

Calculate Assessment of Quality of Life Six Dimension dimension 4 disvalue

Description

calculate_aqol6d_dim_4_disv() is a Calculate function that performs a numeric calculation. Specifically, this function implements an algorithm to calculate assessment of quality of life six dimension dimension 4 disvalue. The function returns DvD4 (a double vector).

Usage

```
calculate_aqol6d_dim_4_disv(dvQs_tb, kD_1L_dbl, w_dbl)
```

Arguments

`dvQs_tb`	DvQs (a tibble)
`kD_1L_dbl`	KD (a double vector of length one)
`w_dbl`	W (a double vector)

Value

DvD4 (a double vector)

`calculate_aqol6d_dim_5_disv`

Calculate Assessment of Quality of Life Six Dimension dimension 5 disvalue

Description

calculate_aqol6d_dim_5_disv() is a Calculate function that performs a numeric calculation. Specifically, this function implements an algorithm to calculate assessment of quality of life six dimension dimension 5 disvalue. The function returns DvD5 (a double vector).

Usage

```
calculate_aqol6d_dim_5_disv(dvQs_tb, kD_1L_dbl, w_dbl)
```

Arguments

`dvQs_tb`	DvQs (a tibble)
`kD_1L_dbl`	KD (a double vector of length one)
`w_dbl`	W (a double vector)

Value

DvD5 (a double vector)

calculate_aqol6d_dim_6_disv

Calculate Assessment of Quality of Life Six Dimension dimension 6 disvalue

Description

calculate_aqol6d_dim_6_disv() is a Calculate function that performs a numeric calculation. Specifically, this function implements an algorithm to calculate assessment of quality of life six dimension dimension 6 disvalue. The function returns DvD6 (a double vector).

Usage

```
calculate_aqol6d_dim_6_disv(dvQs_tb, kD_1L_dbl, w_dbl)
```

Arguments

dvQs_tb	DvQs (a tibble)
kD_1L_dbl	KD (a double vector of length one)
w_dbl	W (a double vector)

Value

DvD6 (a double vector)

fns_dmt_tb

youthvars function documentation table

Description

Meta-data on each youthvars function used to create package documentation

Usage

```
fns_dmt_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 65 rows and 10 columns.

Details

A tibble

fns_chr Functions (a character vector)

title_chr Title (a character vector)

desc_chr Description (a character vector)

details_chr Details (a character vector)

inc_for_main_user_lgl Include for main user (a logical vector)

output_chr Output (a character vector)

example_lgl Example (a logical vector)

args_ls Arguments (a list)

file_nm_chr File name (a character vector)

file_pfx_chr File prefix (a character vector)

Source

https://ready4-dev.github.io/youthvars/

`fn_type_lup_tb` *Function type lookup table*

Description

A lookup table to find descriptions for different types of functions used within the youthvars package suite.

Usage

```
fn_type_lup_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 46 rows and 6 columns.

Details

A tibble

fn_type_nm_chr Function type name (a character vector)

fn_type_desc_chr Function type description (a character vector)

first_arg_desc_chr First argument description (a character vector)

second_arg_desc_chr Second argument description (a character vector)

is_generic_lgl Is generic (a logical vector)

is_method_lgl Is method (a logical vector)

Source

https://doi.org/10.7910/DVN/2Y9VF9

force_min_max_and_int_cnstrs

Force minimum maximum and integer vector constraints

Description

force_min_max_and_int_cnstrs() is a Force function that checks if a specified local or global environmental condition is met and if not, updates the specified environment to comply with the condition. Specifically, this function implements an algorithm to force minimum maximum and integer vector constraints. The function returns Table (a tibble).

Usage

```
force_min_max_and_int_cnstrs(tbl_tb, var_names_chr, min_max_ls, discrete_lgl)
```

Arguments

tbl_tb	Table (a tibble)
var_names_chr	Variable names (a character vector)
min_max_ls	Minimum maximum (a list)
discrete_lgl	Discrete (a logical vector)

Value

Table (a tibble)

force_vec_to_sum_to_int

Force vector to sum to

Description

force_vec_to_sum_to_int() is a Force function that checks if a specified local or global environmental condition is met and if not, updates the specified environment to comply with the condition. Specifically, this function implements an algorithm to force vector to sum to integer vector. The function returns Vector (an integer vector).

Usage

```
force_vec_to_sum_to_int(vec_int, target_1L_int, item_ranges_dbl_ls)
```

Arguments

vec_int	Vector (an integer vector)
target_1L_int	Target (an integer vector of length one)
item_ranges_dbl_ls	Item ranges (a list of double vectors)

Value

Vector (an integer vector)

get_guide_box_lgd *Get guide box legend*

Description

get_guide_box_lgd() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get guide box legend. Function argument plot_plt specifies the where to look for the required object. The function returns Legend (a list).

Usage

```
get_guide_box_lgd(plot_plt)
```

Arguments

plot_plt	Plot (a plot)

Value

Legend (a list)

impute_adult_aqol6d_items_tb *Impute adult Assessment of Quality of Life Six Dimension items*

Description

impute_adult_aqol6d_items_tb() is an Impute function that imputes data. Specifically, this function implements an algorithm to impute adult assessment of quality of life six dimension items tibble. The function returns Assessment of Quality of Life Six Dimension items (a tibble).

Usage

```
impute_adult_aqol6d_items_tb(aqol6d_items_tb, domain_items_ls)
```

Arguments

aqol6d_items_tb	Assessment of Quality of Life Six Dimension items (a tibble)
domain_items_ls	Domain items (a list)

Value

Assessment of Quality of Life Six Dimension items (a tibble)

`impute_unscrd_adol_aqol6d_ds` *Impute unscored adolescent Assessment of Quality of Life Six Dimension dataset*

Description

impute_unscrd_adol_aqol6d_ds() is an Impute function that imputes data. Specifically, this function implements an algorithm to impute unscored adolescent assessment of quality of life six dimension dataset. The function returns Imputed unscored Assessment of Quality of Life dataset tibble (a tibble).

Usage

```
impute_unscrd_adol_aqol6d_ds(unscrd_aqol_ds_tb)
```

Arguments

`unscrd_aqol_ds_tb`	Unscored Assessment of Quality of Life dataset (a tibble)

Value

Imputed unscored Assessment of Quality of Life dataset tibble (a tibble)

`is_youthvars_aqol6d_adol` *Is youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))*

Description

Check whether an object is a valid instance of the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Usage

```
is_youthvars_aqol6d_adol(x)
```

Arguments

`x`	An object of any type

Details

youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Value

A logical value, TRUE if a valid instance of the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

is_youthvars_bads — *Is youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores*

Description

Check whether an object is a valid instance of the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Usage

```
is_youthvars_bads(x)
```

Arguments

x	An object of any type

Details

youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Value

A logical value, TRUE if a valid instance of the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

is_youthvars_gad7 — *Is youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores*

Description

Check whether an object is a valid instance of the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Usage

```
is_youthvars_gad7(x)
```

Arguments

x	An object of any type

Details

youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Value

A logical value, TRUE if a valid instance of the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

is_youthvars_k6 — *Is youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores*

Description

Check whether an object is a valid instance of the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Usage

```
is_youthvars_k6(x)
```

Arguments

x	An object of any type

Details

youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Value

A logical value, TRUE if a valid instance of the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

is_youthvars_oasis — *Is youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores*

Description

Check whether an object is a valid instance of the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Usage

```
is_youthvars_oasis(x)
```

Arguments

x	An object of any type

Details

youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Value

A logical value, TRUE if a valid instance of the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

is_youthvars_phq9 *Is youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores*

Description

Check whether an object is a valid instance of the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Usage

```
is_youthvars_phq9(x)
```

Arguments

x	An object of any type

Details

youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Value

A logical value, TRUE if a valid instance of the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

is_youthvars_scared *Is youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores*

Description

Check whether an object is a valid instance of the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Usage

```
is_youthvars_scared(x)
```

Arguments

x	An object of any type

Details

youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Value

A logical value, TRUE if a valid instance of the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

is_youthvars_sofas *Is youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)*

Description

Check whether an object is a valid instance of the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Usage

```
is_youthvars_sofas(x)
```

Arguments

x	An object of any type

Details

youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Value

A logical value, TRUE if a valid instance of the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

make_adol_aqol6d_disv_lup *Make adolescent Assessment of Quality of Life Six Dimension disvalue*

Description

make_adol_aqol6d_disv_lup() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make adolescent assessment of quality of life six dimension disvalue lookup table. The function returns Adolescent Assessment of Quality of Life Six Dimension disvalue (a lookup table).

Usage

```
make_adol_aqol6d_disv_lup()
```

Value

Adolescent Assessment of Quality of Life Six Dimension disvalue (a lookup table)

`make_aqol6d_adol_pop_tbs_ls` *Make Assessment of Quality of Life Six Dimension adolescent pop tibbles*

Description

make_aqol6d_adol_pop_tbs_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make assessment of quality of life six dimension adolescent pop tibbles list. The function returns Assessment of Quality of Life Six Dimension adolescent pop tibbles (a list).

Usage

```
make_aqol6d_adol_pop_tbs_ls(
  aqol_items_prpns_tbs_ls,
  aqol_scores_pars_ls,
  series_names_chr,
  synth_data_spine_ls,
  temporal_cors_ls,
  id_var_nm_1L_chr = "fkClientID",
 prefix_chr = c(uid = "Participant_", aqol_item = "aqol6d_q", domain_unwtd_pfx_1L_chr
    = "aqol6d_subtotal_c_", domain_wtd_pfx_1L_chr = "aqol6d_subtotal_w_")
)
```

Arguments

`aqol_items_prpns_tbs_ls`	Assessment of Quality of Life items proportions tibbles (a list)
`aqol_scores_pars_ls`	Assessment of Quality of Life scores parameters (a list)
`series_names_chr`	Series names (a character vector)
`synth_data_spine_ls`	Synthetic data spine (a list)
`temporal_cors_ls`	Temporal correlations (a list)
`id_var_nm_1L_chr`	Identity variable name (a character vector of length one), Default: 'fkClientID'
`prefix_chr`	Prefix (a character vector), Default: c(uid = "Participant_", aqol_item = "aqol6d_q", domain_unwtd_pfx_1L_chr = "aqol6d_subtotal_c_", domain_wtd_pfx_1L_chr = "aqol6d_subtotal_w_")

Value

Assessment of Quality of Life Six Dimension adolescent pop tibbles (a list)

make_aqol6d_fns_ls *Make Assessment of Quality of Life Six Dimension functions*

Description

make_aqol6d_fns_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make assessment of quality of life six dimension functions list. The function returns Assessment of Quality of Life Six Dimension disu (a list of functions).

Usage

```
make_aqol6d_fns_ls(domain_items_ls)
```

Arguments

domain_items_ls	Domain items (a list)

Value

Assessment of Quality of Life Six Dimension disu (a list of functions)

make_aqol6d_items_tb *Make Assessment of Quality of Life Six Dimension items*

Description

make_aqol6d_items_tb() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make assessment of quality of life six dimension items tibble. The function returns Assessment of Quality of Life Six Dimension items (a tibble).

Usage

```
make_aqol6d_items_tb(aqol_tb, old_pfx_1L_chr, new_pfx_1L_chr)
```

Arguments

aqol_tb	Assessment of Quality of Life (a tibble)
old_pfx_1L_chr	Old prefix (a character vector of length one)
new_pfx_1L_chr	New prefix (a character vector of length one)

Value

Assessment of Quality of Life Six Dimension items (a tibble)

make_complete_prpns_tbs_ls

Make complete proportions tibbles

Description

make_complete_prpns_tbs_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make complete proportions tibbles list. The function returns Complete proportions tibbles (a list).

Usage

```
make_complete_prpns_tbs_ls(
  raw_prpns_tbs_ls,
  question_var_nm_1L_chr = "Question"
)
```

Arguments

`raw_prpns_tbs_ls`
: Raw proportions tibbles (a list)

`question_var_nm_1L_chr`
: Question variable name (a character vector of length one), Default: 'Question'

Value

Complete proportions tibbles (a list)

make_correlated_data_tb

Make correlated data

Description

make_correlated_data_tb() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make correlated data tibble. The function returns Correlated data (a tibble).

Usage

```
make_correlated_data_tb(synth_data_spine_ls, synth_data_idx_1L_dbl = 1)
```

Arguments

`synth_data_spine_ls`
: Synthetic data spine (a list)

`synth_data_idx_1L_dbl`
: Synthetic data index (a double vector of length one), Default: 1

Value

Correlated data (a tibble)

make_corstars_tbl_xx *Make corstars table*

Description

make_corstars_tbl_xx() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make corstars table output object of multiple potential types. The function is called for its side effects and does not return a value.

Usage

```
make_corstars_tbl_xx(
  x,
  caption_1L_chr = NULL,
  mkdn_tbl_ref_1L_chr = NULL,
  method_chr = c("pearson", "spearman"),
  removeTriangle_chr = c("upper", "lower"),
  result_chr = "none"
)
```

Arguments

x	An object
caption_1L_chr	Caption (a character vector of length one), Default: NULL
mkdn_tbl_ref_1L_chr	Markdown table reference (a character vector of length one), Default: NULL
method_chr	Method (a character vector), Default: c("pearson", "spearman")
removeTriangle_chr	RemoveTriangle (a character vector), Default: c("upper", "lower")
result_chr	Result (a character vector), Default: 'none'

make_cors_with_utl_tbl *Make correlations with utility table*

Description

make_cors_with_utl_tbl() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make correlations with utility table. The function returns Correlations with utility (a tibble).

Usage

```
make_cors_with_utl_tbl(
  data_tb,
  ds_descvs_ls,
  dictionary_tb = NULL,
  cor_type_1L_chr = "pearson"
)
```

Arguments

data_tb	Data (a tibble)
ds_descvs_ls	Dataset descriptives (a list)
dictionary_tb	Dictionary (a tibble), Default: NULL
cor_type_1L_chr	Correlation type (a character vector of length one), Default: 'pearson'

Value

Correlations with utility (a tibble)

---

make_descv_stats_tbl *Make descriptive statistics table*

Description

make_descv_stats_tbl() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make descriptive statistics table. The function returns Descriptive statistics table (a tibble).

Usage

```
make_descv_stats_tbl(
  data_tb,
  key_var_nm_1L_chr = "round",
  key_var_vals_chr = NULL,
  variable_nms_chr,
  dictionary_tb = NULL,
  test_1L_lgl = F,
  sections_as_row_1L_lgl = F,
  nbr_of_digits_1L_int = NA_integer_
)
```

Arguments

data_tb	Data (a tibble)
key_var_nm_1L_chr	Key variable name (a character vector of length one), Default: 'round'
key_var_vals_chr	Key variable values (a character vector), Default: NULL
variable_nms_chr	Variable names (a character vector)
dictionary_tb	Dictionary (a tibble), Default: NULL
test_1L_lgl	Test (a logical vector of length one), Default: F
sections_as_row_1L_lgl	Sections as row (a logical vector of length one), Default: F
nbr_of_digits_1L_int	Number of digits (an integer vector of length one), Default: NA

Value

Descriptive statistics table (a tibble)

`make_dim_sclg_cons_dbl` *Make dimension scaling constants*

Description

make_dim_sclg_cons_dbl() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make dimension scaling constants double vector. The function returns Dimension scaling constants (a double vector).

Usage

```
make_dim_sclg_cons_dbl(domains_chr, dim_sclg_con_lup_tb)
```

Arguments

`domains_chr`	Domains (a character vector)
`dim_sclg_con_lup_tb`	Dimension scaling constant lookup table (a tibble)

Value

Dimension scaling constants (a double vector)

`make_domain_items_ls` *Make domain items*

Description

make_domain_items_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make domain items list. The function returns Domain items (a list).

Usage

```
make_domain_items_ls(domain_qs_lup_tb, item_pfx_1L_chr)
```

Arguments

`domain_qs_lup_tb`	Domain questions lookup table (a tibble)
`item_pfx_1L_chr`	Item prefix (a character vector of length one)

Value

Domain items (a list)

make_final_rpln_ds_dict *Make final rpln dataset dictionary*

Description

make_final_rpln_ds_dict() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make final rpln dataset dictionary. The function returns Dictionary (a tibble).

Usage

```
make_final_rpln_ds_dict(
  seed_dictionary_tb = NULL,
  additions_tb = NULL,
  utl_unwtd_var_nm_1L_chr = "aqol6d_total_c"
)
```

Arguments

seed_dictionary_tb	Seed dictionary (a tibble), Default: NULL
additions_tb	Additions (a tibble), Default: NULL
utl_unwtd_var_nm_1L_chr	Utility unwtd variable name (a character vector of length one), Default: 'aqol6d_total_c'

Value

Dictionary (a tibble)

make_formula *Make formula*

Description

make_formula() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make formula. The function is called for its side effects and does not return a value.

Usage

```
make_formula(
  depnt_var_nm_1L_chr,
  predictors_chr,
  environment_env = parent.frame()
)
```

Arguments

depnt_var_nm_1L_chr
: Dependent variable name (a character vector of length one)

predictors_chr
: Predictors (a character vector)

environment_env
: Environment (an environment), Default: parent.frame()

Value

NA ()

---

make_item_plt *Make item*

Description

make_item_plt() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make item plot. The function returns Item (a plot).

Usage

```
make_item_plt(
  tfd_data_tb,
  var_nm_1L_chr,
  round_var_nm_1L_chr = "round",
  x_label_1L_chr,
  y_label_1L_chr = "Percentage",
  fill_label_1L_chr = "Data collection",
  y_scale_scl_fn = NULL,
  use_bw_theme_1L_lgl = F,
  legend_position_1L_chr = "none"
)
```

Arguments

tfd_data_tb
: Transformed data (a tibble)

var_nm_1L_chr
: Variable name (a character vector of length one)

round_var_nm_1L_chr
: Round variable name (a character vector of length one), Default: 'round'

x_label_1L_chr
: X label (a character vector of length one)

y_label_1L_chr
: Y label (a character vector of length one), Default: 'Percentage'

fill_label_1L_chr
: Fill label (a character vector of length one), Default: 'Data collection'

y_scale_scl_fn
: Y scale scale (a function), Default: NULL

use_bw_theme_1L_lgl
: Use black and white theme (a logical vector of length one), Default: F

legend_position_1L_chr
: Legend position (a character vector of length one), Default: 'none'

Value

Item (a plot)

`make_itm_resp_plts` *Make item resp plots*

Description

make_itm_resp_plts() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make item resp plots. The function returns Composite (a plot).

Usage

```
make_itm_resp_plts(
  data_tb,
  col_nms_chr,
  lbl_nms_chr,
  plot_rows_cols_pair_int,
  heights_int,
  round_var_nm_1L_chr = "round",
  y_label_1L_chr = "Percentage"
)
```

Arguments

`data_tb`	Data (a tibble)
`col_nms_chr`	Column names (a character vector)
`lbl_nms_chr`	Label names (a character vector)
`plot_rows_cols_pair_int`	Plot rows columns pair (an integer vector)
`heights_int`	Heights (an integer vector)
`round_var_nm_1L_chr`	Round variable name (a character vector of length one), Default: 'round'
`y_label_1L_chr`	Y label (a character vector of length one), Default: 'Percentage'

Value

Composite (a plot)

make_make_item_wrst_wts_ls_ls

Make make item worst weights

Description

make_make_item_wrst_wts_ls_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make make item worst weights list list. The function returns Make item worst weights (a list of lists).

Usage

```
make_make_item_wrst_wts_ls_ls(domain_items_ls, itm_wrst_wghts_lup_tb)
```

Arguments

domain_items_ls	Domain items (a list)
itm_wrst_wghts_lup_tb	Item worst wghts lookup table (a tibble)

Value

Make item worst weights (a list of lists)

make_new_youthvars_aqol6d_adol

Make new youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Description

Create a new unvalidated instance of the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Usage

```
make_new_youthvars_aqol6d_adol(x)
```

Arguments

x	A prototype for the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Details

youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Value

An unvalidated instance of the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

`make_new_youthvars_bads`

Make new youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

---

Description

Create a new unvalidated instance of the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Usage

```
make_new_youthvars_bads(x)
```

Arguments

`x`	A prototype for the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Details

youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Value

An unvalidated instance of the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

---

`make_new_youthvars_gad7`

Make new youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

---

Description

Create a new unvalidated instance of the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Usage

```
make_new_youthvars_gad7(x)
```

Arguments

`x`	A prototype for the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Details

youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Value

An unvalidated instance of the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

---

make_new_youthvars_k6 *Make new youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores*

Description

Create a new unvalidated instance of the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Usage

```
make_new_youthvars_k6(x)
```

Arguments

x	A prototype for the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Details

youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Value

An unvalidated instance of the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

---

make_new_youthvars_oasis *Make new youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores*

Description

Create a new unvalidated instance of the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Usage

```
make_new_youthvars_oasis(x)
```

Arguments

x	A prototype for the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Details

youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Value

An unvalidated instance of the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

---

make_new_youthvars_phq9 *Make new youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores*

Description

Create a new unvalidated instance of the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Usage

```
make_new_youthvars_phq9(x)
```

Arguments

x	A prototype for the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Details

youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Value

An unvalidated instance of the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

---

`make_new_youthvars_scared`

Make new youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

---

Description

Create a new unvalidated instance of the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Usage

```
make_new_youthvars_scared(x)
```

Arguments

x	A prototype for the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Details

youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Value

An unvalidated instance of the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

---

`make_new_youthvars_sofas`

Make new youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Description

Create a new unvalidated instance of the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Usage

```
make_new_youthvars_sofas(x)
```

Arguments

x	A prototype for the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Details

youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Value

An unvalidated instance of the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

`make_pdef_cor_mat_mat` *Make positive definite correlation matrix*

Description

make_pdef_cor_mat_mat() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make positive definite correlation matrix matrix. The function returns Positive definite correlation (a matrix).

Usage

```
make_pdef_cor_mat_mat(lower_diag_mat)
```

Arguments

`lower_diag_mat` Lower diag (a matrix)

Value

Positive definite correlation (a matrix)

`make_predr_pars_and_cors_tbl`
Make predictor parameters and correlations table

Description

make_predr_pars_and_cors_tbl() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make predictor parameters and correlations table. The function returns Predictor parameters and correlations (a tibble).

Usage

```
make_predr_pars_and_cors_tbl(
  data_tb,
  ds_descvs_ls,
  descv_tbl_ls,
  dictionary_tb,
  nbr_of_digits_1L_int = 2L,
  predictors_lup = NULL
)
```

Arguments

data_tb	Data (a tibble)
ds_descvs_ls	Dataset descriptives (a list)
descv_tbl_ls	Descriptive table (a list)
dictionary_tb	Dictionary (a tibble)
nbr_of_digits_1L_int	Number of digits (an integer vector of length one), Default: 2
predictors_lup	Predictors (a lookup table), Default: NULL

Value

Predictor parameters and correlations (a tibble)

---

make_pt_youthvars_aqol6d_adol

Make prototype youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Description

Create a new prototype for the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Usage

```
make_pt_youthvars_aqol6d_adol()
```

Details

youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Value

A prototype for youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

make_pt_youthvars_bads

Make prototype youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Description

Create a new prototype for the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Usage

```
make_pt_youthvars_bads()
```

Details

youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Value

A prototype for youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

make_pt_youthvars_gad7

Make prototype youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Description

Create a new prototype for the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Usage

```
make_pt_youthvars_gad7()
```

Details

youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Value

A prototype for youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

make_pt_youthvars_k6 *Make prototype youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores*

Description

Create a new prototype for the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Usage

```
make_pt_youthvars_k6()
```

Details

youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Value

A prototype for youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

make_pt_youthvars_oasis *Make prototype youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores*

Description

Create a new prototype for the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Usage

```
make_pt_youthvars_oasis()
```

Details

youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Value

A prototype for youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

`make_pt_youthvars_phq9` *Make prototype youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores*

Description

Create a new prototype for the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Usage

```
make_pt_youthvars_phq9()
```

Details

youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Value

A prototype for youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

`make_pt_youthvars_scared` *Make prototype youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores*

Description

Create a new prototype for the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Usage

```
make_pt_youthvars_scared()
```

Details

youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Value

A prototype for youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

make_pt_youthvars_sofas

Make prototype youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Description

Create a new prototype for the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Usage

```
make_pt_youthvars_sofas()
```

Details

youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Value

A prototype for youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

make_subtotal_plt *Make subtotal*

Description

make_subtotal_plt() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make subtotal plot. The function returns Subtotal (a plot).

Usage

```
make_subtotal_plt(
  data_tb,
  var_nm_1L_chr,
  round_var_nm_1L_chr = "round",
  x_label_1L_chr,
  y_label_1L_chr = "Percentage",
  y_scale_scl_fn = scales::percent,
  use_bw_theme_1L_lgl = T,
  legend_position_1L_chr = "none",
  label_fill_1L_chr = NULL
)
```

Arguments

data_tb	Data (a tibble)
var_nm_1L_chr	Variable name (a character vector of length one)
round_var_nm_1L_chr	Round variable name (a character vector of length one), Default: 'round'
x_label_1L_chr	X label (a character vector of length one)
y_label_1L_chr	Y label (a character vector of length one), Default: 'Percentage'
y_scale_scl_fn	Y scale scale (a function), Default: scales::percent
use_bw_theme_1L_lgl	Use black and white theme (a logical vector of length one), Default: T
legend_position_1L_chr	Legend position (a character vector of length one), Default: 'none'
label_fill_1L_chr	Label fill (a character vector of length one), Default: NULL

Value

Subtotal (a plot)

---

make_sub_tot_plts *Make sub total plots*

Description

make_sub_tot_plts() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make sub total plots. The function returns Composite (a plot).

Usage

```
make_sub_tot_plts(
  data_tb,
  col_nms_chr,
  plot_rows_cols_pair_int,
  round_var_nm_1L_chr = "round",
  make_log_log_tfmn_1L_lgl = F,
  heights_int,
  y_label_1L_chr = "Percentage"
)
```

Arguments

data_tb	Data (a tibble)
col_nms_chr	Column names (a character vector)
plot_rows_cols_pair_int	Plot rows columns pair (an integer vector)
round_var_nm_1L_chr	Round variable name (a character vector of length one), Default: 'round'
make_log_log_tfmn_1L_lgl	Make log log transformation (a logical vector of length one), Default: F
heights_int	Heights (an integer vector)
y_label_1L_chr	Y label (a character vector of length one), Default: 'Percentage'

Value

Composite (a plot)

`make_synth_series_tbs_ls` *Make synthetic series tibbles*

Description

make_synth_series_tbs_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make synthetic series tibbles list. The function returns Synthetic series tibbles (a list).

Usage

```
make_synth_series_tbs_ls(synth_data_spine_ls, series_names_chr)
```

Arguments

`synth_data_spine_ls`
: Synthetic data spine (a list)

`series_names_chr`
: Series names (a character vector)

Value

Synthetic series tibbles (a list)

`make_tableby_cntrls` *Make tableby cntrls*

Description

make_tableby_cntrls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make tableby cntrls. The function returns Tableby cntrls (a list).

Usage

```
make_tableby_cntrls(test_1L_lgl = F)
```

Arguments

`test_1L_lgl` Test (a logical vector of length one), Default: F

Value

Tableby cntrls (a list)

make_tableby_ls *Make tableby*

Description

make_tableby_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make tableby list. The function returns Tableby (a list).

Usage

```
make_tableby_ls(data_tb, key_var_nm_1L_chr, variable_nms_chr, test_1L_lgl = F)
```

Arguments

data_tb	Data (a tibble)
key_var_nm_1L_chr	Key variable name (a character vector of length one)
variable_nms_chr	Variable names (a character vector)
test_1L_lgl	Test (a logical vector of length one), Default: F

Value

Tableby (a list)

make_tfd_repln_ds_dict_r3 *Make transformed replication dataset dictionary*

Description

make_tfd_repln_ds_dict_r3() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make transformed replication dataset dictionary ready4 s3. The function returns Transformed replication dataset dictionary (a ready4 S3).

Usage

```
make_tfd_repln_ds_dict_r3(repln_ds_dict_r3 = NULL)
```

Arguments

repln_ds_dict_r3	Replication dataset dictionary (a ready4 S3), Default: NULL

Value

Transformed replication dataset dictionary (a ready4 S3)

make_var_by_round_plt *Make variable by round*

Description

make_var_by_round_plt() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make variable by round plot. The function returns Variable by round (a plot).

Usage

```
make_var_by_round_plt(
  data_tb,
  var_nm_1L_chr,
  round_var_nm_1L_chr = "round",
  x_label_1L_chr,
  y_label_1L_chr = "Percentage",
  y_scale_scl_fn = scales::percent,
  label_fill_1L_chr = "Data collection"
)
```

Arguments

data_tb	Data (a tibble)
var_nm_1L_chr	Variable name (a character vector of length one)
round_var_nm_1L_chr	Round variable name (a character vector of length one), Default: 'round'
x_label_1L_chr	X label (a character vector of length one)
y_label_1L_chr	Y label (a character vector of length one), Default: 'Percentage'
y_scale_scl_fn	Y scale scale (a function), Default: scales::percent
label_fill_1L_chr	Label fill (a character vector of length one), Default: 'Data collection'

Value

Variable by round (a plot)

make_vec_with_sum_of_int_val *Make vector with sum of integer vector value*

Description

make_vec_with_sum_of_int_val() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make vector with sum of integer vector value. The function returns Vector (an integer vector).

Usage

```
make_vec_with_sum_of_int_val(target_int, start_int, end_int, length_int)
```

Arguments

`target_int`	Target (an integer vector)
`start_int`	Start (an integer vector)
`end_int`	End (an integer vector)
`length_int`	Length (an integer vector)

Value

Vector (an integer vector)

`predictors_lup` *Predictors lookup table*

Description

A lookup table of the short name and long name of each predictor used in the models included with the youthu package.

Usage

```
predictors_lup
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 7 rows and 9 columns.

Details

A tibble

short_name_chr Short name (a character vector)

long_name_chr Long name (a character vector)

min_val_dbl Minimum value (a double vector)

max_val_dbl Maximum value (a double vector)

class_chr Class (a character vector)

increment_dbl Increment (a double vector)

class_fn_chr Class function (a character vector)

mdl_scaling_dbl Model scaling (a double vector)

covariate_lgl Covariate (a logical vector)

`print_descv_stats_tbl` *Print descriptive statistics table*

Description

print_descv_stats_tbl() is a Print function that prints output to console Specifically, this function implements an algorithm to print descriptive statistics table. The function is called for its side effects and does not return a value.

Usage

```
print_descv_stats_tbl(
  df,
  bl_fup_vals_chr = c("Baseline", "Follow-up"),
  caption_1L_chr = NULL,
  header_col_nms_chr = NULL,
  mkdn_tbl_ref_1L_chr = NULL,
  output_type_1L_chr,
  round_var_nm_1L_chr,
  test_1L_lgl = F,
  variable_nms_chr
)
```

Arguments

`df`	Data.frame (a data.frame)
`bl_fup_vals_chr`	Baseline follow-up values (a character vector), Default: c("Baseline", "Follow-up")
`caption_1L_chr`	Caption (a character vector of length one), Default: NULL
`header_col_nms_chr`	Header column names (a character vector), Default: NULL
`mkdn_tbl_ref_1L_chr`	Markdown table reference (a character vector of length one), Default: NULL
`output_type_1L_chr`	Output type (a character vector of length one)
`round_var_nm_1L_chr`	Round variable name (a character vector of length one)
`test_1L_lgl`	Test (a logical vector of length one), Default: F
`variable_nms_chr`	Variable names (a character vector)

prototype_lup *Class prototype lookup table*

Description

Metadata on classes used in readyforwhatsnext suite

Usage

```
prototype_lup
```

Format

An object of class `ready4_class_pt_lup` (inherits from `ready4_class_pt_lup`, `tbl_df`, `tbl`, `data.frame`) with 28 rows and 6 columns.

Details

A tibble

type_chr Type (a character vector)

val_chr Value (a character vector)

pt_ns_chr Prototype namespace (a character vector)

fn_to_call_chr Function to call (a character vector)

default_val_chr Default value (a character vector)

old_class_lgl Old class (a logical vector)

replace_with_missing_vals *Replace with missing values*

Description

replace_with_missing_vals() is a Replace function that edits an object, replacing a specified element with another specified element. Specifically, this function implements an algorithm to replace with missing values. Function argument data_tbl_tb specifies the object to be updated. Argument synth_data_spine_ls provides the object to be updated. The function is called for its side effects and does not return a value.

Usage

```
replace_with_missing_vals(data_tbl_tb, synth_data_spine_ls, idx_int)
```

Arguments

`data_tbl_tb`	Data table (a tibble)
`synth_data_spine_ls`	Synthetic data spine (a list)
`idx_int`	Index (an integer vector)

Value

Synthetic (a table)

`replication_popl_tb` *Synthetic population replication dataset*

Description

A purely synthetic dataset, representative of the original study data, that can be used for replication runs of package algorithms.

Usage

```
replication_popl_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 1711 rows and 43 columns.

Details

A tibble

fkClientID unique client identifier

round round of data collection

d_interview_date date of data collection

d_age age

d_gender gender

d_sex_birth_s sex at birth

d_sexual_ori_s sexual orientation

d_ATSI Aboriginal or Torres Strait Islander

d_country_bir_s country Of birth

d_english_home speaks English at home

d_english_native native English speaker

d_studying_working education and employment status

d_relation_s relationship status

s_centre service centre name

c_p_diag_s primary diagnosis

c_clinical_staging_s clinical stage

k6_total Kessler Psychological Distress Scale (6 Dimension)

phq9_total Patient Health Questionnaire

bads_total Behavioural Activation for Depression Scale

gad7_total Generalised Anxiety Disorder Scale

oasis_total Overall Anxiety Severity and Impairment Scale

scared_total Screen for Child Anxiety Related Disorders

c_sofas Social and Occupational Functioning Assessment Scale
aqol6d_q1 Assessment of Quality of Life (6 Dimension) question 1
aqol6d_q2 Assessment of Quality of Life (6 Dimension) question 2
aqol6d_q3 Assessment of Quality of Life (6 Dimension) question 3
aqol6d_q4 Assessment of Quality of Life (6 Dimension) question 4
aqol6d_q5 Assessment of Quality of Life (6 Dimension) question 5
aqol6d_q6 Assessment of Quality of Life (6 Dimension) question 6
aqol6d_q7 Assessment of Quality of Life (6 Dimension) question 7
aqol6d_q8 Assessment of Quality of Life (6 Dimension) question 8
aqol6d_q9 Assessment of Quality of Life (6 Dimension) question 9
aqol6d_q10 Assessment of Quality of Life (6 Dimension) question 10
aqol6d_q11 Assessment of Quality of Life (6 Dimension) question 11
aqol6d_q12 Assessment of Quality of Life (6 Dimension) question 12
aqol6d_q13 Assessment of Quality of Life (6 Dimension) question 13
aqol6d_q14 Assessment of Quality of Life (6 Dimension) question 14
aqol6d_q15 Assessment of Quality of Life (6 Dimension) question 15
aqol6d_q16 Assessment of Quality of Life (6 Dimension) question 16
aqol6d_q17 Assessment of Quality of Life (6 Dimension) question 17
aqol6d_q18 Assessment of Quality of Life (6 Dimension) question 18
aqol6d_q19 Assessment of Quality of Life (6 Dimension) question 19
aqol6d_q20 Assessment of Quality of Life (6 Dimension) question 20

`repln_ds_dict_r3` *Data dictionary for study population dataset*

Description

A data dictionary of the variables used in the source and replication (synthetic) datasets for the First Bounce transfer to utility study

Usage

```
repln_ds_dict_r3
```

Format

An object of class `ready4_dictionary` (inherits from `tbl_df`, `tbl`, `data.frame`) with 47 rows and 4 columns.

Details

A tibble

var_nm_chr Variable name (a character vector)
var_ctg_chr Variable category categories (a character vector)
var_desc_chr Variable description (a character vector)
var_type_chr Variable type (a character vector)

transform_ds_for_item_plt

Transform dataset for item

Description

transform_ds_for_item_plt() is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform dataset for item plot. Function argument data_tb specifies the object to be updated. Argument var_nm_1L_chr provides the object to be updated. The function returns Transformed data (a tibble).

Usage

```
transform_ds_for_item_plt(
  data_tb,
  var_nm_1L_chr,
  round_var_nm_1L_chr = "round"
)
```

Arguments

data_tb	Data (a tibble)
var_nm_1L_chr	Variable name (a character vector of length one)
round_var_nm_1L_chr	Round variable name (a character vector of length one), Default: 'round'

Value

Transformed data (a tibble)

transform_ds_for_tstng

Transform dataset for testing

Description

transform_ds_for_tstng() is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform dataset for testing. Function argument data_tb specifies the object to be updated. Argument depnt_var_nm_1L_chr provides the object to be updated. The function returns Transformed data (a tibble).

Usage

```
transform_ds_for_tstng(
  data_tb,
  depnt_var_nm_1L_chr = "aqol6d_total_w",
  dep_var_max_val_1L_dbl = 0.999,
  candidate_predrs_chr = NA_character_,
  covar_var_nms_chr = NA_character_,
  round_var_nm_1L_chr = "round",
  round_val_1L_chr = "Baseline",
  remove_all_msng_1L_lgl = F
)
```

Arguments

data_tb	Data (a tibble)
depnt_var_nm_1L_chr	Dependent variable name (a character vector of length one), Default: 'aqol6d_total_w'
dep_var_max_val_1L_dbl	Dep variable maximum value (a double vector of length one), Default: 0.999
candidate_predrs_chr	Candidate predictors (a character vector), Default: 'NA'
covar_var_nms_chr	Covariate variable names (a character vector), Default: 'NA'
round_var_nm_1L_chr	Round variable name (a character vector of length one), Default: 'round'
round_val_1L_chr	Round value (a character vector of length one), Default: 'Baseline'
remove_all_msng_1L_lgl	Remove all missing (a logical vector of length one), Default: F

Value

Transformed data (a tibble)

---

transform_ds_with_rename_lup

Transform dataset with rename

Description

transform_ds_with_rename_lup() is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform dataset with rename lookup table. Function argument ds_tb specifies the object to be updated. Argument rename_lup provides the object to be updated. The function returns Tfmd dataset (a tibble).

Usage

```
transform_ds_with_rename_lup(ds_tb, rename_lup, target_var_nms_chr = NULL)
```

Arguments

ds_tb	Dataset (a tibble)
rename_lup	Rename (a lookup table)
target_var_nms_chr	Target variable names (a character vector), Default: NULL

Value

Tfmd dataset (a tibble)

---

transform_raw_ds_for_analysis

Transform raw dataset for analysis

Description

transform_raw_ds_for_analysis() is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform raw dataset for analysis. Function argument raw_ds_tb specifies the object to be updated. The function returns Transformed dataset (a tibble).

Usage

```
transform_raw_ds_for_analysis(raw_ds_tb)
```

Arguments

raw_ds_tb	Raw dataset (a tibble)

Value

Transformed dataset (a tibble)

---

transform_tb_for_merged_col_1

Transform tibble for merged column 1

Description

transform_tb_for_merged_col_1() is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform tibble for merged column 1. Function argument df specifies the object to be updated. Argument output_type_1L_chr provides the object to be updated. The function returns Data.frame (a data.frame).

Usage

```
transform_tb_for_merged_col_1(df, output_type_1L_chr = "PDF")
```

Arguments

df	Data.frame (a data.frame)
output_type_1L_chr	Output type (a character vector of length one), Default: 'PDF'

Value

Data.frame (a data.frame)

---

validate_youthvars_aqol6d_adol

Validate youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Description

Validate an instance of the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Usage

```
validate_youthvars_aqol6d_adol(x)
```

Arguments

x	An unvalidated instance of the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Details

youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Value

A prototpe for youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

validate_youthvars_bads *Validate youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores*

Description

Validate an instance of the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Usage

```
validate_youthvars_bads(x)
```

Arguments

x	An unvalidated instance of the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Details

youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Value

A prototpe for youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

validate_youthvars_gad7 *Validate youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores*

Description

Validate an instance of the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Usage

```
validate_youthvars_gad7(x)
```

Arguments

x	An unvalidated instance of the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Details

youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Value

A prototpe for youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

---

`validate_youthvars_k6` *Validate youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores*

Description

Validate an instance of the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Usage

```
validate_youthvars_k6(x)
```

Arguments

`x`	An unvalidated instance of the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Details

youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Value

A prototpe for youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

---

`validate_youthvars_oasis` *Validate youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores*

Description

Validate an instance of the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Usage

```
validate_youthvars_oasis(x)
```

Arguments

`x`	An unvalidated instance of the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Details

youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Value

A prototpe for youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

---

`validate_youthvars_phq9`

Validate youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

---

Description

Validate an instance of the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Usage

```
validate_youthvars_phq9(x)
```

Arguments

`x`	An unvalidated instance of the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Details

youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Value

A prototpe for youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

---

`validate_youthvars_scared`

Validate youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

---

Description

Validate an instance of the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Usage

```
validate_youthvars_scared(x)
```

Arguments

x	An unvalidated instance of the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Details

youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Value

A prototpe for youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

---

validate_youthvars_sofas

Validate youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Description

Validate an instance of the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Usage

```
validate_youthvars_sofas(x)
```

Arguments

x	An unvalidated instance of the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Details

youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Value

A prototpe for youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

write_all_outp_dirs *Write all output directories*

Description

write_all_outp_dirs() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write all output directories. The function returns Paths (a list).

Usage

```
write_all_outp_dirs(paths_ls)
```

Arguments

paths_ls	Paths (a list)

Value

Paths (a list)

write_descv_plots *Write descriptive plots*

Description

write_descv_plots() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write descriptive plots. The function returns Descriptive plots paths (a list).

Usage

```
write_descv_plots(
  data_tb,
  ds_descvs_ls,
  descv_outp_dir_1L_chr,
  lbl_nms_chr = c("Household tasks", "Getting around", "Morbility", "Self care",
   "Enjoy close rels", "Family rels", "Community involvement", "Despair", "Worry",
    "Sad", "Agitated", "Energy level", "Control", "Coping", "Frequency of pain",
   "Degree of pain", "Pain interference", "Vision", "Hearing", "Communication"),
  maui_domains_pfcs_1L_chr = "vD",
 item_plots_params_ls = list(plot_rows_cols_pair_int = c(5L, 4L), heights_int = c(10L,
    1L), width_1L_dbl = 9),
 dim_plots_params_ls = list(plot_rows_cols_pair_int = c(3L, 2L), heights_int = c(10L,
    1L), width_1L_dbl = 8),
  utl_by_rnd_plots_params_ls = list(width_1L_dbl = 6, height_1L_dbl = 4),
  combined_plot_params_ls = list(nrow_1L_int = 2L, rel_heights_dbl = c(4, 10),
    scale_dbl = c(0.9, 0.9), base_height_dbl = 10)
)
```

Arguments

data_tb	Data (a tibble)
ds_descvs_ls	Dataset descriptives (a list)
descv_outp_dir_1L_chr	Descriptive output directory (a character vector of length one)
lbl_nms_chr	Label names (a character vector), Default: c("Household tasks", "Getting around", "Morbility", "Self care", "Enjoy close rels", "Family rels", "Community involvement", "Despair", "Worry", "Sad", "Agitated", "Energy level", "Control", "Coping", "Frequency of pain", "Degree of pain", "Pain interference", "Vision", "Hearing", "Communication")
maui_domains_pfcs_1L_chr	Maui domains pfcs (a character vector of length one), Default: 'vD'
item_plots_params_ls	Item plots params (a list), Default: list(plot_rows_cols_pair_int = c(5L, 4L), heights_int = c(10L, 1L), width_1L_dbl = 9)
dim_plots_params_ls	Dimension plots params (a list), Default: list(plot_rows_cols_pair_int = c(3L, 2L), heights_int = c(10L, 1L), width_1L_dbl = 8)
utl_by_rnd_plots_params_ls	Utility by rnd plots params (a list), Default: list(width_1L_dbl = 6, height_1L_dbl = 4)
combined_plot_params_ls	Combined plot params (a list), Default: list(nrow_1L_int = 2L, rel_heights_dbl = c(4, 10), scale_dbl = c(0.9, 0.9), base_height_dbl = 10)

Value

Descriptive plots paths (a list)

---

write_descv_tbls *Write descriptive tables*

Description

write_descv_tbls() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write descriptive tables. The function returns Descriptive table (a list).

Usage

```
write_descv_tbls(
  data_tb,
  ds_descvs_ls,
  predictors_lup,
  descv_outp_dir_1L_chr,
  nbr_of_digits_1L_int = 2
)
```

Arguments

data_tb	Data (a tibble)
ds_descvs_ls	Dataset descriptives (a list)
predictors_lup	Predictors (a lookup table)
descv_outp_dir_1L_chr	Descriptive output directory (a character vector of length one)
nbr_of_digits_1L_int	Number of digits (an integer vector of length one), Default: 2

Value

Descriptive table (a list)

---

write_results_to_csv *Write results to comma separated variables file*

Description

write_results_to_csv() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write results to comma separated variables file. The function returns Datasets (a tibble).

Usage

```
write_results_to_csv(synth_data_spine_ls, output_dir_1L_chr = ".")
```

Arguments

synth_data_spine_ls	Synthetic data spine (a list)
output_dir_1L_chr	Output directory (a character vector of length one), Default: '.'

Value

Datasets (a tibble)

youthvars_aqol6d_adol *youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))*

Description

Create a new valid instance of the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Usage

```
youthvars_aqol6d_adol(x = make_pt_youthvars_aqol6d_adol())
```

Arguments

x	A prototype for the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent)), Default: make_pt_youthvars_aqol6d_adol()

Details

youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

Value

A validated instance of the youthvars S3 class for Assessment of Quality of Life Six Dimension Health Utility - Adolescent Version (AQoL6d Adolescent))

youthvars_bads *youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores*

Description

Create a new valid instance of the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Usage

```
youthvars_bads(x = make_pt_youthvars_bads())
```

Arguments

x	A prototype for the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores, Default: make_pt_youthvars_bads()

Details

youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

Value

A validated instance of the youthvars S3 class for Behavioural Activation for Depression Scale (BADS) scores

---

`youthvars_gad7` *youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores*

Description

Create a new valid instance of the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Usage

```
youthvars_gad7(x = make_pt_youthvars_gad7())
```

Arguments

x	A prototype for the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores, Default: make_pt_youthvars_gad7()

Details

youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

Value

A validated instance of the youthvars S3 class for Generalised Anxiety Disorder Scale (GAD-7) scores

---

`youthvars_k6` *youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores*

Description

Create a new valid instance of the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Usage

```
youthvars_k6(x = make_pt_youthvars_k6())
```

Arguments

x	A prototype for the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores, Default: make_pt_youthvars_k6()

Details

youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

Value

A validated instance of the youthvars S3 class for Kessler Psychological Distress Scale (K6) - US Scoring System scores

---

youthvars_oasis *youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores*

Description

Create a new valid instance of the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Usage

```
youthvars_oasis(x = make_pt_youthvars_oasis())
```

Arguments

x	A prototype for the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores, Default: make_pt_youthvars_oasis()

Details

youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

Value

A validated instance of the youthvars S3 class for Overall Anxiety Severity and Impairment Scale (OASIS) scores

---

youthvars_phq9 *youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores*

Description

Create a new valid instance of the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Usage

```
youthvars_phq9(x = make_pt_youthvars_phq9())
```

Arguments

x	A prototype for the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores, Default: make_pt_youthvars_phq9()

Details

youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

Value

A validated instance of the youthvars S3 class for Patient Health Questionnaire (PHQ-9) scores

---

youthvars_scared *youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores*

Description

Create a new valid instance of the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Usage

```
youthvars_scared(x = make_pt_youthvars_scared())
```

Arguments

x	A prototype for the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores, Default: make_pt_youthvars_scared()

Details

youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

Value

A validated instance of the youthvars S3 class for Screen for Child Anxiety Related Disorders (SCARED) scores

---

youthvars_sofas *youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)*

Description

Create a new valid instance of the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Usage

```
youthvars_sofas(x = make_pt_youthvars_sofas())
```

Arguments

x	A prototype for the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS), Default: make_pt_youthvars_sofas()

Details

youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

Value

A validated instance of the youthvars S3 class for Social and Occupational Functioning Assessment Scale (SOFAS)

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