Package ‘ctablerseh’

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Type Package

Title Processing Survey Data with Confidence Intervals Like 'SPSS' Software

Version 1.1.2

Description Processes survey data and displays estimation results along with the relative standard error in a table, including the number of samples and also uses a t-distribution approach to compute confidence intervals, similar to 'SPSS' (Statistical Package for the Social Sciences) software.

License GPL (>= 3)

Encoding UTF-8

LazyData true

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RoxygenNote 7.3.2

Depends R (>= 2.10)

Imports survey

Suggests testthat (>= 3.0.0)

NeedsCompilation no

Repository CRAN

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Contents

ctablerseh *ctablerseh*

Description

Processes survey data and displays the estimation results along with the relative standard error in the form of a table that includes the number of samples with a t-distribution approach to produce confidence intervals as in SPSS.

Usage

```
ctablerseh(
  numerator,
  denominator,
  disaggregation,
  survey.design,
  survey.data,
  survey.type
)
```

Arguments

numerator	is a variable that contains the numerator value or main value of the observation, the estimated value of which will then be calculated, either in the form of a proportion, ratio or average.
denominator	is a variable that contains the denominator or divisor value which is usually all observations for proportion cases, or observations with different conditions for ratio cases, or is given the NA value if you only want to calculate the average.
disaggregation	is a variable that contains the grouping code for each observation, which can be the smallest group such as district, province or if you want to produce one aggregate estimate value, you can use the same grouping code for all observations.
survey.design	is a parameter that contains the survey design created with the "svydesign" function from the "survey" package.
survey.data	is the data used in calculating the estimated survey results.
survey.type	is a parameter that contains the survey type options, namely proportion (output in percentage form) by selecting "prop", or ratio (output in percentage form) by selecting "ratio" or average by selecting "mean".

Value

This function returns a dataframe containing the estimated value, standard error, relative standard error, confidence interval, number of samples, and the population represented.

Examples

```
susenas.design = survey::svydesign(id=~psu, strata=~strata, data = datex, weights=~FWT)
ctablerseh(numerator = INDI, denominator = denom, disaggregation = R101,
survey.design = susenas.design, survey.data = datex, survey.type = "prop")
```

`datex` *example data containing "INDI" variable, disaggregation, denominator and weighting for RSE calculation with the ctablerseh package*

Description

example data containing "INDI" variable, disaggregation, denominator and weighting for RSE calculation with the ctablerseh package

Usage

```
data(datex)
```

Format

dataframe with 8117 rows and 6 columns:

R101 is the provincial area code for each observation

denom is the denominator value of the indicator where each observation is 100

psu is the cluster component in the sample design which is equivalent to the cluster in SPSS

strata is the stratum component in the sample design which is equivalent to the strata in SPSS

FWT is a weighting component that states the number of populations represented by each observation

INDI is the value of the interest variable which has a value of 100 or 0 to calculate the estimate in percentage form and also its RSE

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