Package 'dataqualitycontrol'

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```
Type Package
Title Data quality check
Version 0.1.0
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Description
      Data quality control according to a predefined list of data quality checks submited by the user and
      produces outputs that allow for a straighforward visualsation and mapping of data entry errors.
      Requires IMPACT ``composer" and ``koboquest".
License GPL-3 + file LICENSE
Encoding UTF-8
LazyData true
Roxygen list(markdown = TRUE)
RoxygenNote 6.1.1
Depends R (>= 3.0.0),
Imports dplyr,
      reshape2,
      questionr,
      composr,
      koboquest (>= 1.0.1),
      kobostandards,
      data.table,
      surveyweights,
      htmltools,
      assertthat,
      survey,
      magrittr,
      tidyr,
      crayon,
      tibble
Remotes github::mabafaba/koboquest,
      github::mabafaba/kobostandards,
      github::mabafaba/composr,
Suggests testthat,
      rmarkdown,
      knitr
VignetteBuilder knitr
```

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R topics documented:

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Description

The following function checks for the presence of invalid combinations of variables within the supplied data and produced and editable output that can be used for data quality review.

Usage

```
batch_issue_checks(df, conditions, tests, meta_to_keep = c())
```

Arguments

df the dataframe you wish to check for invalid combinations of variables

conditions the set of conditions you wish to check tests the set of test related to each condition

meta_to_keep a list of metadata you wish to include in the final output

Value

Standardized issues table for quality check in long format.

Author(s)

Alberto Gualtieri, <alberto.gualtieri@reach-initiative.org>

References

https://github.com/agualtieri/dataqualitycontrol

 $\begin{tabular}{lll} $\textit{dataqualitycontrol: A package to produce standardized data quality} \\ &\textit{output} \end{tabular}$

Description

The data quality control package provides two categories of functions:

- · batch quality checks
- quality log to long format

```
quality_checks_log_to_long_format
```

Function to melt quality check log from long to wide

Description

The following function turns the quality check output from wide to long format.

Usage

```
quality_checks_log_to_long_format(data, variable_name = "variable",
  value_name = "value", meta_not_to_transform = c())
```

Arguments

```
data the dataset you wish to transform from wide to long
variable_name the name of the measured variable. The default name is 'variable'
value_name name of the transformed data value. The default name is 'value'
meta_not_to_transform
    a list of metadata you wish to keep as id variables.
```

Value

A transformed quality check log

Author(s)

Alberto Gualtieri, <alberto.gualtieri@reach-initiative.org>

References

```
https://github.com/agualtieri/dataqualitycontrol
```

```
run_checks_from_dataframe
```

Run predefined quality check test on a raw dataset

Description

The following function checks for the presence of invalid data quality combinations within a dataframe using the supplied condition_list.

Usage

```
run_checks_from_dataframe(df, conditions_df, condition.column,
  test.name.column, meta_to_keep = c())
```

Arguments

df the dataset you wish to check for invalid combinations of variables

conditions_df the dataframe contaning the name of the checks and the list of controls to per-

form

condition.column

the column name that containes the conditions you want to check in the dataset

test.name.column

the column name that contains the description of the checks you want to perform

meta_to_keep a list of metadata you wish to include in the final output

Details

The condition_list must be a dataframe containing least two variables: condition as the name of the condition one wishes to check and test as the test applied to each condition.

Value

Standardized issues table for quality check in long format.

Author(s)

Alberto Gualtieri, <alberto.gualtieri@reach-initiative.org>

References

https://github.com/agualtieri/dataqualitycontrol

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