Package 'diffdf'

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Type Package
Title Dataframe Difference Tool

Version 1.1.2

Description Functions for comparing two data.frames against each other. The core functionality is to provide a detailed breakdown of any differences between two data.frames as well as providing utility functions to help narrow down the source of problems and differences.

Encoding UTF-8 Language en-GB

Depends R (>= 3.1.2)

Imports tibble, assertthat, methods

Suggests testthat, lubridate, knitr, rmarkdown, purrr, dplyr, stringi, stringr, devtools, covr, bit64, withr

RoxygenNote 7.3.3

VignetteBuilder knitr

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URL https://gowerc.github.io/diffdf/, https://github.com/gowerc/diffdf

Config/testthat/edition 3

BugReports https://github.com/gowerc/diffdf/issues

NeedsCompilation no

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as_character

as_character

Description

Stub function to enable mocking in unit tests

Usage

```
as_character()
```

diffdf

diffdf

Description

Compares 2 dataframes and outputs any differences.

Usage

```
diffdf(
  base,
  compare,
  keys = NULL,
  suppress_warnings = FALSE,
  strict_numeric = TRUE,
  strict_factor = TRUE,
  file = NULL,
  tolerance = sqrt(.Machine$double.eps),
  scale = NULL,
  check_column_order = FALSE,
  check_df_class = FALSE
)
```

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Arguments

base input dataframe comparison dataframe compare keys vector of variables (as strings) that defines a unique row in the base and compare dataframes suppress_warnings Do you want to suppress warnings? (logical) strict_numeric Flag for strict numeric to numeric comparisons (default = TRUE). If False diffdf will cast integer to double where required for comparisons. Note that variables specified in the keys will never be casted. strict_factor Flag for strict factor to character comparisons (default = TRUE). If False diffdf will cast factors to characters where required for comparisons. Note that variables specified in the keys will never be casted. file Location and name of a text file to output the results to. Setting to NULL will cause no file to be produced. tolerance Set tolerance for numeric comparisons. Note that comparisons fail if (x-y)/scale scale Set scale for numeric comparisons. Note that comparisons fail if (x-y)/scale > tolerance. Setting as NULL is a slightly more efficient version of scale = 1. check_column_order

Should the column ordering be checked? (logical)

check_df_class Do you want to check for differences in the class between base and compare? (logical)

Examples

```
x <- subset(iris, -Species)</pre>
x[1, 2] < -5
COMPARE <- diffdf(iris, x)
print(COMPARE)
#### Sample data frames
DF1 <- data.frame(</pre>
    id = c(1, 2, 3, 4, 5, 6),
    v1 = letters[1:6],
    v2 = c(NA, NA, 1, 2, 3, NA)
)
DF2 <- data.frame(</pre>
    id = c(1, 2, 3, 4, 5, 7),
    v1 = letters[1:6],
    v2 = c(NA, NA, 1, 2, NA, NA),
    v3 = c(NA, NA, 1, 2, NA, 4)
)
diffdf(DF1, DF1, keys = "id")
```

diffdf_has_issues

```
# We can control matching with scale/location for example:
DF1 <- data.frame(</pre>
    id = c(1, 2, 3, 4, 5, 6),
    v1 = letters[1:6],
    v2 = c(1, 2, 3, 4, 5, 6)
DF2 <- data.frame(</pre>
    id = c(1, 2, 3, 4, 5, 6),
    v1 = letters[1:6],
    v2 = c(1.1, 2, 3, 4, 5, 6)
diffdf(DF1, DF2, keys = "id")
diffdf(DF1, DF2, keys = "id", tolerance = 0.2)
diffdf(DF1, DF2, keys = "id", scale = 10, tolerance = 0.2)
# We can use strict_factor to compare factors with characters for example:
DF1 <- data.frame(</pre>
    id = c(1, 2, 3, 4, 5, 6),
    v1 = letters[1:6],
    v2 = c(NA, NA, 1, 2, 3, NA),
    stringsAsFactors = FALSE
)
DF2 <- data.frame(</pre>
    id = c(1, 2, 3, 4, 5, 6),
    v1 = letters[1:6],
    v2 = c(NA, NA, 1, 2, 3, NA)
)
diffdf(DF1, DF2, keys = "id", strict_factor = TRUE)
diffdf(DF1, DF2, keys = "id", strict_factor = FALSE)
```

diffdf_has_issues

diffdf_has_issues

Description

Utility function which returns TRUE if an diffdf object has issues or FALSE if an diffdf object does not have issues

Usage

```
diffdf_has_issues(x)
```

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Arguments

x diffdf object

Examples

```
# Example with no issues
x <- diffdf(iris, iris)
diffdf_has_issues(x)

# Example with issues
iris2 <- iris
iris2[2, 2] <- NA
x <- diffdf(iris, iris2, suppress_warnings = TRUE)
diffdf_has_issues(x)</pre>
```

diffdf_issuerows

Identify Issue Rows

Description

This function takes a diffdf object and a dataframe and subsets the data. frame for problem rows as identified in the comparison object. If vars has been specified only issue rows associated with those variable(s) will be returned.

Usage

```
diffdf_issuerows(df, diff, vars = NULL)
```

Arguments

df dataframe to be subsetted

diff diffdf object

vars (optional) character vector containing names of issue variables to subset dataframe

on. A value of NULL (default) will be taken to mean available issue variables.

Details

Note that diffdf_issuerows can be used to subset against any dataframe. The only requirement is that the original variables specified in the keys argument to diffdf are present on the dataframe you are subsetting against. However please note that if no keys were specified in diffdf then the row number is used. This means using diffdf_issuerows without a keys against an arbitrary dataset can easily result in nonsense rows being returned. It is always recommended to supply keys to diffdf.

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Examples

```
iris2 <- iris
for (i in 1:3) iris2[i, i] <- 99
x <- diffdf(iris, iris2, suppress_warnings = TRUE)
diffdf_issuerows(iris, x)
diffdf_issuerows(iris2, x)
diffdf_issuerows(iris2, x, vars = "Sepal.Length")
diffdf_issuerows(iris2, x, vars = c("Sepal.Length", "Sepal.Width"))</pre>
```

print.diffdf

Print diffdf objects

Description

Print a nicely formatted version of a diffdf object.

Usage

```
## S3 method for class 'diffdf'
print(x, row_limit = 10, as_string = FALSE, file = NULL, ...)
```

Arguments

X	A comparison object created by diffdf().
row_limit	Maximum number of rows to display in difference tables. Use NULL to show all rows. Default is 10.
as_string	Logical. If TRUE, returns the printed message as an R character vector instead of printing to the console. Default is FALSE.
file	A connection or a character string naming the file to print to. If NULL (the default), output is printed to the console.
	Additional arguments (not used).

Examples

```
x <- subset(iris, -Species)
x[1, 2] <- 5
COMPARE <- diffdf(iris, x)
print(COMPARE)
print(COMPARE, row_limit = 5)
## Not run:
print(COMPARE, file = "output.txt")
## End(Not run)</pre>
```

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