

Package: diffdf (via r-universe)

August 23, 2024

Type Package

Title Dataframe Difference Tool

Version 1.0.4.900

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

LazyData true

Language en-GB

Depends R (>= 3.1.2)

Imports tibble, assertthat, methods

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

RoxygenNote 7.3.2

Roxygen list(markdown = TRUE)

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>

Repository <https://gowerc.r-universe.dev>

RemoteUrl <https://github.com/gowerc/diffdf>

RemoteRef HEAD

RemoteSha 8cf2a2d6974f0ade9f2526d726735eec6ac8be3c

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as_character	<i>as_character</i>
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Description

Stub function to enable mocking in unit tests

Usage

```
as_character()
```

diffdf	<i>diffdf</i>
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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
)
```

Arguments

base	input dataframe
compare	comparison dataframe
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 $(x-y)/scale > tolerance$.
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)
x[1, 2] <- 5
COMPARE <- diffdf(iris, x)
print(COMPARE)

#### Sample data frames

DF1 <- data.frame(
  id = c(1, 2, 3, 4, 5, 6),
  v1 = letters[1:6],
  v2 = c(NA, NA, 1, 2, 3, NA)
)

DF2 <- data.frame(
  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, DF2, keys = "id")
```

```
# We can control matching with scale/location for example:

DF1 <- data.frame(
  id = c(1, 2, 3, 4, 5, 6),
  v1 = letters[1:6],
  v2 = c(1, 2, 3, 4, 5, 6)
)
DF2 <- data.frame(
  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(
  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(
  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)
```

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)
```

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.

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"))
```

```
print.diffdf          Print diffdf objects
```

Description

Print nicely formatted version of an diffdf object

Usage

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

Arguments

x	comparison object created by diffdf().
row_limit	Max row limit for difference tables (NULL to show all rows)
as_string	Return printed message as an R character vector?
...	Additional arguments (not used)

Examples

```
x <- subset(iris, -Species)
x[1, 2] <- 5
COMPARE <- diffdf(iris, x)
print(COMPARE)
print(COMPARE, row_limit = 5)
```

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