Package: framqaqc (via r-universe)

July 9, 2026

Title What the Package Does (One Line, Title Case)

Version 0.0.0.9000

Description QAQC tools for comparing FRAM databases.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

URL https://github.com/FRAMverse/framqaqc,
https://framverse.github.io/framqaqc/

BugReports https://github.com/FRAMverse/framqaqc/issues

Imports dplyr, ggplot2, gt, rlang, stats, tidyr, tidyselect

Suggests knitr, rmarkdown

Remotes FRAMverse/framrsquared

VignetteBuilder knitr

Config/pak/sysreqs cmake make libicu-dev libuv1-dev libxml2-dev libssl-dev libnode-dev

Repository https://framverse.r-universe.dev

Date/Publication 2025-09-18 22:03:46 UTC

RemoteUrl https://github.com/FRAMverse/framqaqc

RemoteRef HEAD

RemoteSha 28805107c8014e0bdd1f368d398925677b42e998

Contents

compare_table_across_dbs *Compare tables between two databases*

Description

Compare tables between two databases

Usage

```
compare_table_across_dbs(fram_db_1, fram_db_2, table_name)
```

Arguments

fram_db_1	fram database connection to first database (used as reference for ratio calculations)
fram_db_2	fram database connection to second database
table_name	Name of table to compare

Value

tibble of comparisons, including run_id, as appropriate stock_id, age, fishery_id, time_step. $db1 and $db2 give the values in the database for column $metric; $diff_exact has db1-db2, and $diff_ratio has db2/db1.

Examples

```
## Not run:
library(framrsquared)
fram_a = connect_fram_db(
"C:/Repos/fram multirun testing/Formal testing/coho_preseason_notamm_a.mdb",
read_only = TRUE,
quiet = TRUE)
fram_c = connect_fram_db(
"C:/Repos/fram multirun testing/Formal testing/coho_preseason_notamm_c.mdb",
                        read_only = TRUE,
                       quiet = TRUE)
compare_table_across_dbs(fram_a, fram_c, "Mortality")
disconnect_fram_db(fram_a)
disconnect_fram_db(fram_b)

## End(Not run)
```

plot_comparisons_exact

Plot the values of the two databases against each other

Description

Creates faceted plots based on the output of `compare_table_across_dbs()`, with the values from one database plotted against the corresponding values from the other. If two databases are exactly the same, all points should fall on the 1:1 line; dashed 1:1 line included as reference. To improve performance, avoids plotting duplicate and near-duplicate entries. "near-duplicate" is controlled by argument `round_digits`.

Usage

```
plot_comparisons_exact(tab, round_digits = 0)
```

Arguments

`tab`	tibble produced from `compare_table_across_dbs()`.
`round_digits`	Digits to round to before identifying entries as "near-duplicate" entries. Defaults to 0 (e.g., round to the nearest fish). Appropriate to reduce when comparing tables in which values are much smaller.

Value

ggplot object

plot_comparisons_ratio

Plot the ratios of database comparisons

Description

Creates faceted plots based on the output of `compare_table_across_dbs()`, with the ratio of db2/db1 plotted against the values of db1. If two databases are exactly the same, all points should have a ratio of exactly 1; dashed horizontal line at 1 is included as reference. To improve performance, avoids plotting duplicate and near-duplicate entries. "near-duplicate" values of db1 is controlled by argument `round_digits`; ratio values within 0.001 are treated as near-duplicate.

Usage

```
plot_comparisons_ratio(tab, round_digits = 0)
```

Arguments

tab	tibble produced from compare_table_across_dbs().
round_digits	digits to round db1 to in order to avoid plotting near-duplicate points.

Value

ggplot object

---

summarize_exact *Summarize exact differences from* compare_table_across_dbs()

Description

Makes a quick summary of the outputs of compare_table_across_dbs(), giving min, max, 0.01 and 0.99 quantiles of the absolute differences of values by run id. A perfect match would have values that are all 0.

Usage

```
summarize_exact(tab)
```

Arguments

tab	tibble produced from compare_table_across_dbs().

Value

gt with summary information.

---

summarize_ratio *Summarize ratio differences from* compare_table_across_dbs()

Description

Makes a quick summary of the outputs of compare_table_across_dbs(), giving min, max, 0.01 and 0.99 quantiles of the ratio of values from db2 / db1, by run id. Ignore entries with values <=1 to db1 to avoid divide-by-zero issues and inflation of small differences.

Usage

```
summarize_ratio(tab)
```

Arguments

tab	tibble produced from compare_table_across_dbs().

Value

gt with summary information.

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