

Package: pointblankops (via r-universe)

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Title Extending Pointblank with Precision Failure Analysis

Version 0.1.0

Description Extension of Pointblank providing lightweight alternatives to pointblank agents for efficient failure detection and reporting.

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Imports pointblank, dplyr, tibble, rlang

Suggests testthat (>= 3.0.0), knitr, rmarkdown, quarto, DBI, arrow, duckdb, RSQLite

VignetteBuilder quarto

URL <https://petrbouchal.github.io/pointblankops/>,
<https://github.com/petrbouchal/pointblankops>

BugReports <https://github.com/petrbouchal/pointblankops/issues>

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

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create_operative	<i>Create operative for focused failure detection</i>
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Description

Creates a lightweight operative object for specialized data validation intelligence gathering. Operatives are streamlined versions of pointblank agents designed for efficient failure detection without the overhead of full reporting capabilities.

Usage

```
create_operative(tbl, tbl_name = NULL, label = NULL)
```

Arguments

tbl	A data.frame, tibble, or database table (tbl_sql) to validate
tbl_name	Optional name for the table (if not provided, inferred from object)
label	Optional label for the operative

Value

A pointblank agent object configured as an operative with class `ptblank_operative`

Examples

```
## Not run:  
# Create operative from data frame  
data <- data.frame(id = 1:5, value = c(1, 2, NA, 4, 5))  
operative <- create_operative(data) |>  
  col_vals_not_null(columns = vars(value))  
  
# Create operative from database table  
con <- DBI::dbConnect(duckdb::duckdb(), ":memory:")  
operative <- create_operative(tbl(con, "my_table")) |>  
  col_vals_between(columns = vars(amount), left = 0, right = 1000)  
  
## End(Not run)
```

debrief	<i>Debrief operative and extract failure intelligence</i>
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Description

Extracts failure information from an operative (or agent) that has been configured with validation steps. This is a memory-efficient alternative to full interrogation that focuses only on identifying and reporting validation failures.

Usage

```
debrief(  
  operative,  
  row_id_col,  
  parquet_path = NULL,  
  con = NULL,  
  output_tbl = NULL,  
  chunk_size = 1000  
)
```

Arguments

operative	A pointblank agent or operative object with validation steps
row_id_col	Character vector of column names to use as row identifiers. These columns will be included in the output to identify failing rows.
parquet_path	Optional path to save failures as a parquet file. If provided, failures will be written to this file instead of returned as a tibble. Requires the 'arrow' package to be installed.
con	Optional database connection to save failures. If provided, failures will be inserted into a database table. Requires the 'DBI' package to be installed.
output_tbl	Optional table name for database output. If not provided and con is specified, the table name will be inferred as {source_table}_failures.
chunk_size	Number of rows to process at once for memory efficiency. Default is 1000.

Value

If no output path is specified, returns a tibble containing failure records with ID columns, test metadata, and failure details. If `parquet_path` or `con` is provided, returns NULL invisibly after writing the failures.

Examples

```
## Not run:  
# Basic usage - return failures as tibble  
operative <- create_operative(mtcars) |>  
  col_vals_not_null(columns = vars(mpg)) |>
```

```
col_vals_between(columns = vars(cyl), left = 4, right = 8)

failures <- debrief(operative, row_id_col = c("gear", "carb"))

# Save to parquet file (requires arrow package)
# install.packages("arrow")
debrief(operative, row_id_col = "gear", parquet_path = "failures.parquet")

# Save to database (requires DBI package)
# install.packages("DBI")
con <- DBI::dbConnect(duckdb::duckdb(), ":memory:")
debrief(operative, row_id_col = "gear", con = con, output_tbl = "car_failures")

## End(Not run)
```

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