

Package: rho.duckdb (via r-universe)

July 21, 2026

Type Package

Depends R (>= 4.4.0)

Title Rho DuckDB Backend

Version 0.0.1.9001

Description Adapts DuckDB connections to Rho's asynchronous SQL contracts and provides a conservative read-only query guard for declared bioinformatics resources.

License MIT + file LICENSE

Encoding UTF-8

Roxygen list(markdown = TRUE)

Imports S7, rho.async (>= 0.0.1.9001), rho.bio (>= 0.0.1.9001), DBI, duckdb

Suggests tinytest, knitr

Remotes RGenomicsETL/Rho/packages/rho.async,
RGenomicsETL/Rho/packages/rho.bio

URL <https://github.com/RGenomicsETL/Rho>,
<https://rgenomicsetl.github.io/Rho/rho.duckdb/>

BugReports <https://github.com/RGenomicsETL/Rho/issues>

Config/roxygen2/version 8.0.0

Config/pak/sysreqs xz-utils

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

Date/Publication 2026-07-21 22:15:31 UTC

RemoteUrl <https://github.com/RGenomicsETL/Rho>

RemoteRef HEAD

RemoteSha f3475cf000a379732d37cfb317754dec5ef2b4db

RemoteSubdir packages/rho.duckdb

Contents

rho_duckdb_contracts	2
Index	3

rho_duckdb_contracts	<i>DuckDB implementation of the Rho SQL contract</i>
----------------------	--

Description

Connections are explicit RhoDuckDbConn values. Queries and statements return tasks through the generic SQL API declared in rho.bio. rho_check_readonly_sql() is intentionally conservative and is not a substitute for the parser-backed guard required before accepting untrusted SQL. It returns a typed RhoSqlAccepted or RhoSqlRejected value. Database failures resolve to RhoDuckDbErrorValue rather than aborting the task.

Index

`rho_check_readonly_sql`
 (`rho_duckdb_contracts`), [2](#)
`rho_duckdb_connect`
 (`rho_duckdb_contracts`), [2](#)
`rho_duckdb_contracts`, [2](#)
`rho_duckdb_disconnect`
 (`rho_duckdb_contracts`), [2](#)
`rho_sql_guard` (`rho_duckdb_contracts`), [2](#)
`RhoConservativeSqlGuard`
 (`rho_duckdb_contracts`), [2](#)
`RhoDuckDbConn` (`rho_duckdb_contracts`), [2](#)
`RhoDuckDbErrorValue`
 (`rho_duckdb_contracts`), [2](#)
`RhoSqlAccepted` (`rho_duckdb_contracts`), [2](#)
`RhoSqlGuard` (`rho_duckdb_contracts`), [2](#)
`RhoSqlGuardResult`
 (`rho_duckdb_contracts`), [2](#)
`RhoSqlRejected` (`rho_duckdb_contracts`), [2](#)
`RhoSqlStatement` (`rho_duckdb_contracts`),
 [2](#)