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1 All Classes

Boolean reload

[Method on All Classes]

this method will semantically refresh items, such as Schema objects or rows, depending on the context of the object in question.

2 module DBI

DBH connect (Class klass, Array *args, Proc &block) [Method on DBI] class is a ruby class which corresponds to the database driver. it is no longer a string. *args is a hash with parameter -> value associations, such as :host or :username. Optionally yields a block for usage, yields a freshly connected DBH.

Array of Class drivers

[Method on DBI]

accessor to get at known classes that can be used as drivers.

DBH connect_cached (Class klass, Array *args)

[Method on DBI]

connect to a new resource if one is required (or desired, see below) with similar parameters as connect().

additional arguments:pool_name and:pool_size can be used to define a Pool (object, see below) which holds a specific subset of connected database handles. Playing with the size here introduces the ability for connect_cached to maintain a minimum number of connections which can be re-used over the lifetime of a program.

Pool pool (String pool_name)

[Method on DBI]

a pool as described above is an array of database handles. this returns that data as a "Pool" object, with its own API. See later on in the document.

Pool all_connections

[Method on DBI]

similar to pool(), this returns all the connections, but ignores pools.

Integer ping (Class klass, Array *args)

[Method on DBI]

similar to connect(), this issues a ping to the databases. This may issue a connect() before the ping() to do it properly depending on the database implementation.

Boolean reconnect_all

[Method on DBI]

reconnects all the known database handles.

DBH last_dbh

[Method on DBI]

returns the last returned dbh from connect() or connect_cached()

this method, by definition, can be unpredictable in threaded environments.

3 class DBH

NilClass transaction (Proc &block)

[Method on DBH]

opens a transaction and executes the statements in the block. Yields self.

Schema table_schema (Symbol table_name)

[Method on DBH]

returns information about a specific table in a Schema object

Array of Schema schema (Symbol schema_name)

[Method on DBH]

returns information about a specific schema, the current one if none is specified.

Boolean reconnect

[Method on DBH]

reconnects to the database

Integer ping

[Method on DBH]

attempts to contact the database, measuring round-trip.

Object driver

[Method on DBH]

returns the underlying driver.

String last_query

[Method on DBH]

returns the last query executed or prepared.

STH last_sth

[Method on DBH]

returns the last statement handle prepared.

Mutex mutex

[Method on DBH]

returns the mutex for this database. thread management will be per-dbh.

String preprocess_query (String query)

[Method on DBH]

preprocesses the query and returns what it would look like right before it gets sent to the database.

Boolean disconnect

[Method on DBH]

disconnects from the database. returns success.

Symbol bind_style (Symbol of [native, preprocessed] style)

[Method on DBH]

Accessor. Native style delegates to the underlying database connector. preprocessed means we do it.

3.1 Query Methods

these methods all optionally use a block and yield a result or sth depending on context:

Result select (String query, Array *binds)

[Method on DBH]

performs a query and returns the result.

Result select_one (String query, Array *binds)

[Method on DBH]

performs a query and returns the result, only yielding the first set of items.

STH prepare (String query)

[Method on DBH]

prepares a query for execution and returns a statement handle.

Boolean execute (String query, Array *binds)

[Method on DBH]

blindly executes a query and returns some idea of success.

4 class STH

Result execute (Array *binds)

[Method on STH]

executes the prepared statement. optionally yielding a result if block given.

Object driver

[Method on STH]

if any, returns the underlying statement handle from the database object.

Result last_result

[Method on STH]

Returns the last Result this prepared statement has yielded.

Boolean finish

[Method on STH]

finishes the statement

DBH dbh

[Method on STH]

returns the dbh this statement handle was created from.

5 class Pool

Boolean reconnect [Method on Pool]

attempts to reconnect the entire pool of database connections.

Integer ping [Method on Pool]

attempts to ping and average the response time of all database connections.

Boolean disconnect [Method on Pool]

disconnects all the database connections in the pool.

6 class Result

Row or Array fetch (Integer row_count)

[Method on Result]

fetches one row, or given an argument, row_count rows.

Row or Array fetch_all

[Method on Result]

fetches all rows.

Object fetch_struct (Class kind, Array *args)

[Method on Result]

fetches the rows and attempts to construct a data structure out of them, given a class which can do so. API for that is forthcoming.

Boolean finish

[Method on Result]

finishes the underlying statement handle and invalidates the data. reloading will no longer be possible once this is called and should raise (or maybe we should reprepare/execute?).

STH sth

[Method on Result]

returns the statement handle that yielded this result.

Schema schema

[Method on Result]

returns a Schema object that corresponds to the data in this result.

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