

RDBI External API specification 1.0 draft

Erik Hollensbe <erik@hollensbe.org>

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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 <code>transaction</code> (<i>Proc &block</i>)	[Method on DBH]
opens a transaction and executes the statements in the block. Yields self.	
Schema <code>table_schema</code> (<i>Symbol table_name</i>)	[Method on DBH]
returns information about a specific table in a Schema object	
Array of Schema <code>schema</code> (<i>Symbol schema_name</i>)	[Method on DBH]
returns information about a specific schema, the current one if none is specified.	
Boolean <code>reconnect</code>	[Method on DBH]
reconnects to the database	
Integer <code>ping</code>	[Method on DBH]
attempts to contact the database, measuring round-trip.	
Object <code>driver</code>	[Method on DBH]
returns the underlying driver.	
String <code>last_query</code>	[Method on DBH]
returns the last query executed or prepared.	
STH <code>last_sth</code>	[Method on DBH]
returns the last statement handle prepared.	
Mutex <code>mutex</code>	[Method on DBH]
returns the mutex for this database. thread management will be per-dbh.	
String <code>preprocess_query</code> (<i>String query</i>)	[Method on DBH]
preprocesses the query and returns what it would look like right before it gets sent to the database.	
Boolean <code>disconnect</code>	[Method on DBH]
disconnects from the database. returns success.	
Symbol <code>bind_style</code> (<i>Symbol of [native, preprocessed] style</i>)	[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 <code>select</code> (<i>String query, Array *binds</i>)	[Method on DBH]
performs a query and returns the result.	
Result <code>select_one</code> (<i>String query, Array *binds</i>)	[Method on DBH]
performs a query and returns the result, only yielding the first set of items.	
STH <code>prepare</code> (<i>String query</i>)	[Method on DBH]
prepares a query for execution and returns a statement handle.	
Boolean <code>execute</code> (<i>String query, Array *binds</i>)	[Method on DBH]
blindly executes a query and returns some idea of success.	

4 class STH

Result <code>execute (Array *binds)</code>	[Method on STH]
executes the prepared statement. optionally yielding a result if block given.	
Object <code>driver</code>	[Method on STH]
if any, returns the underlying statement handle from the database object.	
Result <code>last_result</code>	[Method on STH]
Returns the last Result this prepared statement has yielded.	
Boolean <code>finish</code>	[Method on STH]
finishes the statement	
DBH <code>dbh</code>	[Method on STH]
returns the dbh this statement handle was created from.	

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