

NAME

kyua db-exec - Executes a SQL statement in a results file

SYNOPSIS

kyua db-exec [--no-headers] [--results-file *file*] *statement*

DESCRIPTION

The **kyua db-exec** command provides a way to execute an arbitrary SQL statement within the database. This command is mostly intended to aid in debugging, but can also be used to extract information from the database when the current interfaces do not provide the desired functionality.

The input database must exist. It makes no sense to use **kyua db-exec** on a nonexistent or empty database.

The **kyua db-exec** command takes one or more arguments, all of which are concatenated to form a single SQL statement. Once the statement is executed, **kyua db-exec** prints the resulting table on the screen, if any.

The following subcommand options are recognized:

--no-headers

Avoids printing the headers of the table in the output of the command.

--results-file *path*, **-s** *path*

Specifies the results file to operate on. Defaults to 'LATEST', which causes **kyua db-exec** to automatically load the latest results file from the current test suite.

The following values are accepted:

'LATEST'

Requests the load of the latest results file available for the test suite rooted at the current directory.

Directory

Requests the load of the latest results file available for the test suite rooted at the given directory.

Test suite name

Requests the load of the latest results file available for the given test suite.

Results identifier

Requests the load of a specific results file.

Explicit file name (aka everything else)

Load the specified results file.

See *Results files* for more details.

Results files

Results files contain, as their name implies, the results of the execution of a test suite. Each test suite executed by `kyua-test(1)` generates a new results file, and such results files can be loaded later on by inspection commands such as `kyua-report(1)` to analyze their contents.

Results files support identifier-based lookups and also path name lookups. The differences between the two are described below.

The default naming scheme for the results files provides simple support for identifier-based lookups and historical recording of test suite runs. Each results file is given an identifier derived from the test suite that generated it and the time the test suite was run. Kyua can later look up results files by these fields.

The identifier follows this pattern:

```
<test_suite>.<YYYYMMDD>-<HHMMSS>-<uuuuuu>
```

where ‘test_suite’ is the path to the root of the test suite that was run with all slashes replaced by underscores and ‘YYYYMMDD-HHMMSS-uuuuuu’ is a timestamp with microsecond resolution.

When using the default naming scheme, results files are stored in the `~/.kyua/store/` subdirectory and each file holds a name of the form:

```
~/.kyua/store/results.<identifier>.db
```

Results files are simple SQLite databases with the schema described in the `/usr/share/kyua/store/schema_v?.sql` files. For details on the schema, please refer to the heavily commented SQL file.

EXIT STATUS

The **kyua db-exec** command returns 0 on success or 1 if the SQL statement is invalid or fails to run.

Additional exit codes may be returned as described in `kyua(1)`.

SEE ALSO

kyua(1), kyua-test(1)