

# Package: PEcAn.qaqc (via r-universe)

June 27, 2024

**Type** Package

**Title** QAQC

**Version** 1.7.2

**Date** 2021-10-04

**Author** David LeBauer, Tess McCabe

**Maintainer** David LeBauer <dlebauer@illinois.edu>

**Description** PEcAn integration and model skill testing

**Imports** dplyr, graphics, PEcAn.DB, PEcAn.logger, plotrix, rlang, stats

**Suggests** knitr (>= 1.42), mockery, mvbutils, PEcAn.BIOCRO, PEcAn.ED2, PEcAn.SIPNET, PEcAn.utils, rmarkdown (>= 2.19), testthat (>= 3.0.4), vdiff (>= 1.0.2), withr

**License** BSD\_3\_clause + file LICENSE

**Copyright** Authors

**LazyLoad** yes

**LazyData** FALSE

**Encoding** UTF-8

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**RoxygenNote** 7.3.1

**Repository** <https://pecanproject.r-universe.dev>

**RemoteUrl** <https://github.com/PecanProject/pecan>

**RemoteRef** HEAD

**RemoteSha** d5c7bffdf233077968945a182c11240b5d76e42d

## Contents

cull_database_entries . . . . .	2
find_formats_without_inputs . . . . .	3
find_inputs_without_formats . . . . .	4

get_table_column_names . . . . .	5
new.taylor . . . . .	5
write_out_table . . . . .	6

<b>Index</b>	<b>7</b>
--------------	----------

---

cull\_database\_entries *Delete selected records from bety*

---

### Description

This is a function that takes in a table of records and deletes everything in the file. Please do not run this function without 1) Backing Up Bety 2) Checking the the file only contains entries to be deleted.

For more information on how to use this function see the "Pre-release-database-cleanup" script in the 'vignettes' folder or look at the README

### Usage

```
cull_database_entries(
  table = NULL,
  outdir,
  file_name = NULL,
  con,
  machine_id = NULL,
  table_name = NULL
)
```

### Arguments

table	data frame containing records to be deleted. Specify either this or 'file_name'
outdir	Directory from which the file will be read, and where the delete_log_FILE_NAME will be read to
file_name	The name of the file being read in. Specify either this or 'table'
con	connection the the bety database
machine_id	Optional id of the machine that contains the bety entries.
table_name	database table from which to delete

### Author(s)

Tempest McCabe

---

`find_formats_without_inputs`*Find formats in bety that have no input record in bety*

---

## Description

This is a function that returns a dataframe with all of the format entries that have no associated input records.

For more information on how to use this function see the "Pre-release-database-cleanup" script in the 'vignettes' folder or look at the README

## Usage

```
find_formats_without_inputs(  
  con,  
  user_id_code = NULL,  
  created_after = NULL,  
  updated_after = NULL,  
  created_before = NULL,  
  updated_before = NULL  
)
```

## Arguments

<code>con</code>	connection to the bety database
<code>user_id_code</code>	Optional parameter to search by user_id
<code>created_after</code>	Optional parameter to search by creation date. Date must be in form 'YYYY-MM-DD'.
<code>updated_after</code>	Optional parameter to search all entries updated after a certain date. Date must be in form 'YYYY-MM-DD'.
<code>created_before</code>	Optional parameter to search by creation date. Can be used in conjunction with <code>created_after</code> to specify a specific window. Date must be in form 'YYYY-MM-DD'.
<code>updated_before</code>	Optional parameter to search all entries updated before a certain date. Date must be in form 'YYYY-MM-DD'.

## Author(s)

Tempest McCabe

---

`find_inputs_without_formats`*Find inputs in bety with no format records*

---

### Description

This is a function that returns a dataframe with all of the input entries that have no associated format records. This is very rare in the database.

For more information on how to use this function see the "Pre-release-database-cleanup" script in the 'vignettes' folder or look at the README

### Usage

```
find_inputs_without_formats(  
  con,  
  user_id = NULL,  
  created_after = NULL,  
  updated_after = NULL,  
  created_before = NULL,  
  updated_before = NULL  
)
```

### Arguments

<code>con</code>	connection to the bety database
<code>user_id</code>	Optional parameter to search by user_id
<code>created_before, created_after</code>	Optional parameter to search by creation date. Date must be in form 'YYYY-MM-DD'
<code>updated_before, updated_after</code>	Optional parameter to search all entries updated after a certain date. Date must be in form 'YYYY-MM-DD'

### Author(s)

Tempest McCabe

---

```
get_table_column_names
    get_table_column_names
```

---

**Description**

This function will return a vector of the column names for a given table(s) in the bety database. Useful for choosing which columns to include in the written-out table.

For more information on how to use this function see the "Pre-release-database-cleanup" script in the 'vignettes' folder or look at the README

**Usage**

```
get_table_column_names(table, con)
```

**Arguments**

table	a table that is output from one of the find_* functions, or a data.frame containing the output from multiple find_* functions. Could also be a vector of table names.
con	a connection to the bety database.

**Author(s)**

Tempest McCabe

---

```
new.taylor          Plot taylor diagram for benchmark sites
```

---

**Description**

Plot taylor diagram for benchmark sites

**Usage**

```
new.taylor(dataset, runid, siteid)
```

**Arguments**

dataset	data to plot
runid	a numeric vector with the id(s) of one or more runs (folder in runs) to plot
siteid	vector of sites to plot

---

write_out_table	<i>write_out_table</i>
-----------------	------------------------

---

**Description**

This is a function that returns a dataframe with all of the format entries that have no associated input records.

For more information on how to use this function see the "Pre-release-database-cleanup" script in the 'vignettes' folder or look at the README

**Usage**

```
write_out_table(table, table_name, outdir, relevant_table_columns)
```

**Arguments**

table	a table that is output from one of the find_* functions
table_name	name of table
outdir	path to folder into which the editable table will be written
relevant_table_columns	a list of all columns to keep. ID and table name will be automatically included.

**Author(s)**

Tempest McCabe

# Index

`cull_database_entries`, 2

`find_formats_without_inputs`, 3

`find_inputs_without_formats`, 4

`get_table_column_names`, 5

`new.taylor`, 5

`write_out_table`, 6