Package 'ipanema'

March 2, 2024

2 connect_to_limesurvey

base64_to_df $base64_to_df$

Description

Convert a base64 representation of a CSV table into a 'data.frame' object.

Usage

```
base64_to_df(x)
```

Arguments

Х

The base64-encoded CSV string

Value

A 'data.frame' object containing the data from 'x'.

```
connect_to_limesurvey connect_to_limesurvey
```

Description

Connect to 'LimeSurvey' instance via the RPC and a direct MySQL connection. Store the RPC session key in 'options('limesurvey_session_key')'. Store the MySQL connection object in 'options('limesurvey_mysql_connection')'. Store the RPC URL in 'options('limesurvey_api_url')'.

Usage

```
connect_to_limesurvey(
   api_url,
   limesurvey_username,
   limesurvey_password,
   mysql_host,
   mysql_port,
   mysql_dbname,
   mysql_username,
   mysql_password
)
```

fix_column_data_types

Arguments

Value

No return value, called for side effects

Examples

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server
## Not run:
connect_to_limesurvey(
    api_url = 'https://localhost/index.php/admin/remotecontrol',
    limesurvey_username = 'admin',
    limesurvey_password = '1234admin',
    mysql_host = '127.0.0.1',
    mysql_port = 3306,
    mysql_dbname = 'limesurvey',
    mysql_username = 'lime',
    mysql_password = '1234lime'
)

## End(Not run)
```

```
fix_column_data_types
```

Description

Freshly exported data has all item-data columns as type "character". This function converts these columns to ideal types (e.g. integer). Currently simply converts all multiple-choice columns to integer. Future task: Add conversion to other data types as needed.

Usage

```
fix_column_data_types(df_in)
```

4 get_answer_options

Arguments

```
df_in The 'data.frame' object to fix.
```

Value

A 'data.frame' object containing the data from 'df_in' but with fixed column data types.

```
get_answer_options get_answer_options
```

Description

Get the answer options to a question with pre-defined answer options (e.g. a multiple choice question).

Usage

```
get_answer_options(question_code)
```

Arguments

question_code Code by which to identify the question. Follows a dot-based naming scheme: <group title>.<subquestion title>.

Value

'data.frame' object with the columns 'code' and 'answer' in which each row represents one answer option where 'code' is the encoded value (as found in datasets exported by 'get_survey_data()' and 'answer' is the answer option text as seen by survey users).

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the ID 123456.
# In this survey, a multiple-choice question identified by the code "bdi.01"
# For this question, this example retrieves the possible answer options.
## Not run:
connect_to_limesurvey(
 api_url = 'https://localhost/index.php/admin/remotecontrol',
 limesurvey_username = 'admin',
 limesurvey_password = '1234admin',
 mysql_host = '127.0.0.1',
 mysql_port = 3306,
 mysql_dbname = 'limesurvey',
 mysql_username = 'lime',
 mysql_password = '1234lime'
)
```

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```
answer_options <- get_answer_options("bdi.01")
## End(Not run)</pre>
```

```
get_question_text
```

get_question_text

Description

Get the question text (e.g. "How have you been feeling?") to a question in the dataset.

Usage

```
get_question_text(question_code)
```

Arguments

question_code Code by which to identify the question. Follows a dot-based naming scheme: <group title>.<subquestion title>.

Value

'character' object containing the question text

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the ID 123456.
# In this survey, a multiple-choice question identified by the code "bdi.01"
# is used.
# For this question, this example retrieves the question text which was shown
# to the user when answering the questionnaire.
## Not run:
connect_to_limesurvey(
 api_url = 'https://localhost/index.php/admin/remotecontrol',
 limesurvey_username = 'admin',
 limesurvey_password = '1234admin',
 mysql_host = '127.0.0.1',
 mysql_port = 3306,
 mysql_dbname = 'limesurvey',
 mysql_username = 'lime',
 mysql_password = '1234lime'
)
q_text <- get_question_text("bdi.01")</pre>
## End(Not run)
```

6 get_sql_varname

get_sql_varname

get_sql_varname

Description

Get the internal SQL field name (e.g. "697929X4X21") to a question from a specific survey in the dataset.

Usage

```
get_sql_varname(question_code, survey_id)
```

Arguments

question_code Code by which to identify the question. Follows a dot-based naming scheme: <group title>.<subquestion title>.

survey_id Survey-ID of the survey from which to select the question.

Value

'character' object containing the field name

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the ID 123456.
# In this survey, a multiple-choice question identified by the code "bdi.01"
# is used.
# For this question, this example retrieves name of the SQL table field in
# which `LimeSurvey` internally stores the responses to this question.
## Not run:
connect_to_limesurvey(
 api_url = 'https://localhost/index.php/admin/remotecontrol',
 limesurvey_username = 'admin',
 limesurvey_password = '1234admin',
 mysql_host = '127.0.0.1',
 mysql_port = 3306,
 mysql_dbname = 'limesurvey',
 mysql_username = 'lime',
 mysql_password = '1234lime'
)
q_varname <- get_sql_varname("bdi.01", 123456)</pre>
## End(Not run)
```

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get_survey_data

get_survey_data

Description

Get collected data from a specific survey on the connected 'LimeSurvey' instance. Includes complete and incomplete cases! Returns 'NULL' if no data has been collected in this survey.

Usage

```
get_survey_data(survey_id, completion_status = "all")
```

Arguments

```
survey_id ID of the survey from which the collected data shall be extracted. 6-digit integer. completion_status

'complete' = Return only complete cases; 'incomplete' = Return only incomplete cases; 'all' = Return both.
```

Value

A 'data.frame' object containing the survey data. Column names follow a dot-based naming scheme: <group title>.<subquestion title>. 'NULL' if no data has been collected.

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the ID 123456.
## Not run:
connect_to_limesurvey(
    api_url = 'https://localhost/index.php/admin/remotecontrol',
    limesurvey_username = 'admin',
    limesurvey_password = '1234admin',
    mysql_host = '127.0.0.1',
    mysql_port = 3306,
    mysql_dbname = 'limesurvey',
    mysql_username = 'lime',
    mysql_password = '1234lime'
)

df_data <- get_survey_data(123456)
## End(Not run)</pre>
```

8 get_survey_id

get_survey_id

get_survey_id

Description

Get numerical LimeSurvey ID of the survey with the given title.

Usage

```
get_survey_id(survey_title)
```

Arguments

```
survey_title TItle of the survey. String.
```

Value

An integer Survey ID which can be used as a parameter in 'get_survey_data()'

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the title 'mysurvey'.
## Not run:
connect_to_limesurvey(
  api_url = 'https://localhost/index.php/admin/remotecontrol',
  limesurvey_username = 'admin',
  limesurvey_password = '1234admin',
  mysql_host = '127.0.0.1',
  mysql_port = 3306,
  mysql_dbname = 'limesurvey',
  mysql_username = 'lime',
  mysql_password = '1234lime'
)
survey_id <- get_survey_id('mysurvey')</pre>
df_data <- get_survey_data(survey_id)</pre>
## End(Not run)
```

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limesurvey_api_call limesurvey_api_call

Description

Perform a call to the 'LimeSurvey' RPC API.

Usage

```
limesurvey_api_call(method, params = list(), ...)
```

Arguments

method Name of the API method to call. A complete list of methods can be found here:

https://api.limesurvey.org/classes/remotecontrol_handle.html

params Parameters to pass to the API

... Additional parameters passed from above

Value

A list containing the de-serialized response.

wipe_survey_data

wipe_survey_data

Description

Delete all data collected by this survey.

Usage

```
wipe_survey_data(survey_id)
```

Arguments

survey_id

ID of the survey from which the collected data shall be deleted. 6-digit integer.

Value

Nothing. Function is called for side effects on SQL table.

10 wipe_survey_data

```
# This example assumes a locally hosted `LimeSurvey` instance using a locally
# hosted MySQL server.
# On this `LimeSurvey` instance, there is a survey with the ID 123456.
## Not run:
connect_to_limesurvey(
  api_url = 'https://localhost/index.php/admin/remotecontrol',
  limesurvey_username = 'admin',
  limesurvey_password = '1234admin',
  mysql_host = '127.0.0.1',
 mysql_port = 3306,
  mysql_dbname = 'limesurvey',
 mysql_username = 'lime',
  mysql_password = '1234lime'
)
wipe_survey_data(123456)
## End(Not run)
```

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