Package 'IPEDSuploadables'

February 4, 2023

Title Transforms Institutional Data into Text Files for IPEDS Automated Import/Upload

Version 2.7.5

Description Starting from user-supplied institutional data, these scripts transform, aggregate, and reshape the information to produce key-value pair data files that are able to be uploaded to IPEDS (Integrated Postsecondary Education Data System) through their submission portal <https://surveys.nces.ed.gov/ipeds/>. Starting data specifications can be found in the vignettes. Final files are saved locally to a location of the user's choice. User-friendly readable files can also be produced for purposes of data review and validation.

Note Because IPEDS requirements may change from year to year, having the most recent version of this package is highly recommended. Old versions can be found as GitHub branches. The package can also be used to convert any correctly-prepared data into a key-value pair format for any survey (IPEDS or non-IPEDS).

URL https://github.com/AlisonLanski/IPEDSuploadables, https://alisonlanski.github.io/IPEDSuploadables/

BugReports https://github.com/AlisonLanski/IPEDSuploadables/issues

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Encoding UTF-8

LazyData true

RoxygenNote 7.2.3

Imports dplyr (>= 1.0.0), lubridate, magrittr, purrr, rlang, stringr, svDialogs, tidyr (>= 1.0.0), utils

Suggests knitr, rmarkdown, kableExtra, testthat (>= 3.0.0)

VignetteBuilder knitr

Depends R (>= 2.10)

Config/testthat/edition 2

NeedsCompilation no

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R topics documented:

apply_upload_format *Shortcut function to turn a dataframe into key-value pairs*

Description

Shortcut function to turn a dataframe into key-value pairs

Usage

```
apply_upload_format(df)
```

Arguments

df	dataframe with upload-compatible column names in upload-compatible order

Value

a dataframe with one column and upload-compatible rows

com_cips *Dummy cip data for Completions functions*

Description

Contains sample values for extra cip codes

Usage

```
com_cips
```

Format

A data frame with 3 rows and 10 columns

Details

See complete information by running `?create_dummy_data_com.R`

com_students *Dummy student data for Completions functions*

Description

Contains sample values for students

Usage

```
com_students
```

Format

A data frame with 105 rows and 13 columns

Details

See complete information by running `?create_dummy_data_com.R`

create_dummy_data_com *Create dummy data for testing the completions functions*

Description

Creates a prepared dataframe to test scripts related to IPEDS Completions reporting. Produces either a student/degree dataframe or a dataframe of cips previously reported but not in the current student data, depending on the argument you select

Usage

```
create_dummy_data_com(df_type = "student")
```

Arguments

`df_type`	a string: "student" to get the main df needed, "cip" to get extracips

Value

a dataframe ready for the rest of the comp scripts

Note

The final dataset has 60 students with 105 majors. Students 100-130, 140, 150 have 1 major for 1 degree (journalism) Students 131-139 have 2 majors for 1 degree (journalism + parks) Students 141-149 have 3 majors for 1 degree (journalism, parks, linguistics) Students 151-159 have 3 majors for 2 degrees (1 degree with journalism/parks, 1 MBA degree) Note: 1 student has a faulty birthdate; this will show the warning "1 failed to parse"

Two rows (level 18 linguistics) are flagged as distance education

To fully process completions, we will need to include an example of a CIP code that is a possible major but has no completers and a CIP code in an award level that is possible but has no completers This is the second piece of dummy df produced

Examples

```
set.seed(1892)

# one date fails to parse:
# this is to provide an example of missing
# data which is acceptable to IPEDS
students <- create_dummy_data_com()

additional_cips <- create_dummy_data_com(df_type = "cip")
```

`create_dummy_data_e1d` *Create dummy data for testing the completions functions*

Description

Creates a prepared dataframe to test scripts related to IPEDS 12 Month Enrollment reporting. Produces either a student dataframe or a dataframe of instructional activity, depending on the argument you select

Usage

```
create_dummy_data_e1d(df_type = "student")
```

Arguments

`df_type`	a string: "student" to get the main df needed, "instr" to get instructionalactivity

Value

a dataframe ready for the rest of the e1d scripts

Note

The final dataset has 100 students 60 UG students (40 FT, 20 PT; 26 seeking degrees, 34 not) UG include: 20 first time, 20 transfer, 20 continuing/returning; 40 Grad Students (10 FT, 30 PT; 24 seeking degrees, 16 not)

For simplicity, only 1 race-ethnicity category is used 5 UG and 5 Grad are set to be fully distance ed 10 UG are set to be partially distance ed

Examples

```
set.seed(1892)

student_df <- create_dummy_data_e1d()

instr_df <- create_dummy_data_e1d(df_type = "instr")
```

---

create_dummy_data_ef1 *Create dummy data for testing the fall enrollment functions*

Description

Creates students and retention dataframes for use in parts A, B, C, D, E, G, H. Student-faculty ratio (part G) will ask for a number when the function is run and does not need to exist here. To create both dataframes, run the function twice with different arguments, and save results into separate objects.

Usage

```
create_dummy_data_ef1(df_type = "students", n = 100)
```

Arguments

df_type	A string with the dummy data requested ("students" for parts A-D & G-H or "retention" for part E)
n	A number

Value

A text file

Examples

```
set.seed(1234)

#default creates 100 students
students <- create_dummy_data_ef1()

#change the dataframe
retention <- create_dummy_data_ef1(df_type = "retention")
```

```
#change the population size
more_students <- create_dummy_data_ef1(df_type = "students", n = 250)
```

`create_dummy_data_gr` *Create dummy data for testing the Grad Rates functions*

Description

Creates dummy data for testing the Grad Rates functions

Usage

```
create_dummy_data_gr(n = 100)
```

Arguments

n	Number of rows of data to synthesize

Value

a dataframe ready for the rest of the Grad Rates functions

Examples

```
#use this seed to reproduce the dummy data saved to the package
set.seed(4567)

#default makes 100 students
graduated <- create_dummy_data_gr()

more_graduated <- create_dummy_data_gr(n = 500)
```

`create_dummy_data_gr200`
Create dummy data for testing the Grad Rates 200 function

Description

Dummy data for Grad Rates 200 testing

Usage

```
create_dummy_data_gr200(n = 1000)
```

Arguments

n	A number that will be used as the length of the data frame

Value

a dataframe ready for the rest of the Grad Rates 200 functions

Examples

```
set.seed(4567)

#default creates 1000 students
graduates <- create_dummy_data_gr200()
more_graduates <- create_dummy_data_gr200(n = 100)
```

---

create_dummy_data_hr *Create dummy data for testing the hr functions*

Description

to do: save this out into the package and make it accessible as package data

Usage

```
create_dummy_data_hr()
```

Value

a dataframe ready for the rest of the hr scripts

Examples

```
set.seed(4567)
hr_pop <- create_dummy_data_hr()
```

create_dummy_data_om *Create dummy data for testing the outcome measures functions*

Description

Creates a prepared dataframe to test scripts related to IPEDS Outcome Measures reporting. Produces either a student/status dataframe

Usage

```
create_dummy_data_om()
```

Details

remember: want to save this data out into the package so it's available

Value

a dataframe ready for the rest of the om scripts

Note

The final dataset has 20 students covering most statuses

Examples

```
#creates a very specific population
#function does not allow for anything to be updated at time of run
#in other words: will always create a fixed-value dataframe
dat <- create_dummy_data_om()
```

e1d_instr *Dummy aggregated data for 12 Month Enrollment part B*

Description

Contains sample values for credit hours generated and doctors-professional FTE

Usage

```
e1d_instr
```

Format

A data frame with 1 row and 5 columns

Details

See complete information by running `?create_dummy_data_e1d.R`

e1d_student *Dummy student-level data for 12 Month Enrollment parts A and C*

Description

Contains 100 fictional student records with all required data

Usage

```
e1d_student
```

Format

A data frame with 100 rows (students) and 12 columns

Details

See complete information by running `?create_dummy_data_e1d.R`

ef1_retention *Dummy student retention data for Fall Enrollment scripts part E*

Description

This data provides aggregated counts in a dataframe suitable for use in the retention component of the Fall Enrollment survey.

Usage

```
ef1_retention
```

Format

A data frame with 2 rows and 6 columns

ef1_students *Dummy student data for Fall Enrollment scripts*

Description

Using the default number of students, this data provides a population that touches most available categories of student reporting. Some columns use only a selection of possible values to reduce complexity.

Usage

```
ef1_students
```

Format

A data frame with 100 rows and 25 columns

Note

To recreate the saved dataframe exactly, use seed 1234 with 100 students.

get_ipeds_unitid *Grab institution's UNITID from supplied data to populate missing-data rows*

Description

Grab institution's UNITID from supplied data to populate missing-data rows

Usage

```
get_ipeds_unitid(df)
```

Arguments

df	a dataframe with ipeds data and one unitid

Value

a character unitid

gr200_students *Dummy student data for Graduation Rates 200 functions*

Description

Contains sample values for students

Usage

```
gr200_students
```

Format

A data frame with 1000 rows and 5 columns

Details

See complete information by running `?create_dummy_data_gr200.R`

gr_students *Dummy student data for the Graduation Rates scripts*

Description

Dummy student data for the Graduation Rates scripts

Usage

```
gr_students
```

Format

A data frame with 101 rows and 14 columns

Details

Includes only 3 Race/Ethnicity categories [6, 7, 8] for simpler code; one student (a program-switcher) has a 4th category [1] for easy tracking

hr_staff *Dummy staff data for Human Resources functions*

Description

Contains sample values for staff

Usage

```
hr_staff
```

Format

A data frame with 3600 rows and 13 columns

Details

See complete information by running `?create_dummy_data_hr.R`

IPEDSuploadables `IPEDSuploadables` *package*

Description

Tools to assist data formatting for upload to IPEDS surveys

Details

See the README on GitHub

make_com_part_A *Make Completions Part A*

Description

Make Completions Part A

Usage

```
make_com_part_A(df, extracips = NULL)
```

Arguments

`df`	A dataframe of student/degree information
`extracips`	A dataframe of cips offered by the institution but not in `'df'`

Value

A text file

`make_com_part_B` *Make Completions Part B*

Description

Make Completions Part B

Usage

```
make_com_part_B(df, extracips = NULL)
```

Arguments

`df`	A dataframe of student/degree information
`extracips`	A dataframe of cips offered by the institution but not in `'df'`

Value

A text file

`make_com_part_C` *Make Completions Part C*

Description

Make Completions Part C

Usage

```
make_com_part_C(df)
```

Arguments

`df`	A dataframe of student/degree information

Value

A text file

make_com_part_D *Make Completions Part D*

Description

Make Completions Part D

Usage

```
make_com_part_D(df, extracips = NULL)
```

Arguments

df	A dataframe of student/degree information
extracips	A dataframe of cips offered by the institution but not in 'df'

Value

A text file

make_com_part_E *Make Completions Part E (gender details)*

Description

Make Completions Part E (gender details)

Usage

```
make_com_part_E(df, ugender, ggender)
```

Arguments

df	A dataframe of student/degree information
ugender	A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate completers. Set as FALSE if necessary
ggender	A boolean: TRUE means you are collecting and able to report "another gender" for graduate completers. Set as FALSE if necessary

Value

A text file

make_e1d_part_A *Make 12 Month Enrollment Part A*

Description

Make 12 Month Enrollment Part A

Usage

```
make_e1d_part_A(df)
```

Arguments

df	A dataframe of student/degree information

Value

A text file

make_e1d_part_B *Make 12 Month Enrollment Part B*

Description

Make 12 Month Enrollment Part B

Usage

```
make_e1d_part_B(df)
```

Arguments

df	A dataframe with summarized credit hours and student information

Value

A text file

make_e1d_part_C *Make 12 Month Enrollment Part C*

Description

Make 12 Month Enrollment Part C

Usage

```
make_e1d_part_C(df)
```

Arguments

df	A dataframe of student/degree information

Value

A text file

make_e1d_part_D *Make 12 Month Enrollment Part D (gender details)*

Description

Make 12 Month Enrollment Part D (gender details)

Usage

```
make_e1d_part_D(df, ugender, ggender)
```

Arguments

df	A dataframe of student/degree information
ugender	A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate students. Set as FALSE if necessary
ggender	A boolean: TRUE means you are collecting and able to report "another gender" for graduate students. Set as FALSE if necessary

Value

A text file

make_ef1_part_A *Make Fall Enrollment Part A*

Description

Breakdown of students level and demographics; also by designated CIPs in required years

Usage

```
make_ef1_part_A(df, cips = TRUE)
```

Arguments

df	A dataframe of student information
cips	A logical indicating if part A needs to provide breakdowns by particular CIPs

Value

A text file

make_ef1_part_B *Make Fall Enrollment Part B*

Description

Student Counts by Age/gender

Usage

```
make_ef1_part_B(df)
```

Arguments

df	A dataframe of student information

Value

A text file

make_ef1_part_C *Make Fall Enrollment Part C*

Description

State of origin for first time students

Usage

```
make_ef1_part_C(df)
```

Arguments

df	A dataframe of student/degree information

Value

A text file

make_ef1_part_D *Make Fall Enrollment Part D*

Description

Count of new non-degree students

Usage

```
make_ef1_part_D(df)
```

Arguments

df	A dataframe of student/degree information

Value

A text file

make_ef1_part_E *Make Fall Enrollment Part E*

Description

Retention counts

Usage

```
make_ef1_part_E(df)
```

Arguments

df	A dataframe of student/degree information

Value

A text file

make_ef1_part_F *Make Fall Enrollment Part F*

Description

Student Faculty Ratio

Usage

```
make_ef1_part_F(df)
```

Arguments

df	A dataframe (either "students" or "retention") as a unitid source

Value

A text file

make_ef1_part_G *Make Fall Enrollment Part G*

Description

Distance Ed counts

Usage

```
make_ef1_part_G(df)
```

Arguments

df	A dataframe of student/degree information

Value

A text file

make_ef1_part_H *Make Fall Enrollment Part H (gender details)*

Description

Make Fall Enrollment Part H (gender details)

Usage

```
make_ef1_part_H(df, ugender, ggender)
```

Arguments

df	A dataframe of student enrollment information
ugender	A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate completers. Set as FALSE if necessary
ggender	A boolean: TRUE means you are collecting and able to report "another gender" for graduate completers. Set as FALSE if necessary

Value

A text file

make_gr200 *Make Graduation Rates 200*

Description

Make Graduation Rates 200

Usage

```
make_gr200(df)
```

Arguments

df	A dataframe of student/degree information

Value

A text file

make_gr_part_B *Make Graduation Rates Part B*

Description

Make Graduation Rates Part B

Usage

```
make_gr_part_B(df)
```

Arguments

df	A dataframe of student/degree information

Value

A text file

make_gr_part_C *Make Graduation Rates Part C*

Description

Make Graduation Rates Part C

Usage

```
make_gr_part_C(df)
```

Arguments

df	A dataframe of student/degree information

Value

A text file

make_gr_part_E *Make Graduation Rates Part E (gender details)*

Description

Make Graduation Rates Part E (gender details)

Usage

```
make_gr_part_E(df, ugender)
```

Arguments

df	A dataframe of student/degree information for unduplicated undergraduates
ugender	A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate students. Set as FALSE if necessary

Value

A df aggregated for the survey part

make_hr_part_A1 *Make Human Resources Part A1*

Description

Part A1 — COUNT of FT INSTRUCTIONAL staff by tenure status, academic rank, and race/ethnicity/gender

Usage

```
make_hr_part_A1(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_A2 *Make Human Resources Part A2*

Description

Part A2 — COUNT of FT instructional staff by tenure status, medical school, and function

Usage

```
make_hr_part_A2(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_B1 *Make Human Resources Part B1*

Description

HR Part B1 — COUNT of FT Non-instructional staff by occupational category

Usage

```
make_hr_part_B1(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_B2 *Make Human Resources Part B2*

Description

Part B2 — Full-time non-instructional staff by tenure, medical school, and occupational category

Usage

```
make_hr_part_B2(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_B3 *Make Human Resources Part B3*

Description

Part B3 — Full-time non-instructional staff by medical school, and occupational category

Usage

```
make_hr_part_B3(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_D1 *Make Human Resources Part D1*

Description

Part D1 — Part-time staff by occupational category

Usage

```
make_hr_part_D1(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_D2 *Make Human Resources Part D2*

Description

Part D2 — Graduate assistants by occupational category and race/ethnicity/gender

Usage

```
make_hr_part_D2(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_D3 *Make Human Resources Part D3*

Description

Part D3 — Part-time staff by tenure, medical school, and occupational category

Usage

```
make_hr_part_D3(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_D4 *Make Human Resources Part D4*

Description

Part D4 — Part-time Non-instructional staff by medical school, and occupational category

Usage

```
make_hr_part_D4(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_G1 *Make Human Resources Part G1*

Description

Part G1 — Salaries of INSTRUCTIONAL staff

Usage

```
make_hr_part_G1(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_G2 *Make Human Resources Part G2*

Description

Part G2 — Salaries of non-instructional staff

Usage

```
make_hr_part_G2(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_H1 *Make Human Resources Part H1*

Description

Part H1 — Full-time new hire instructional staff by tenure status and race/ethnicity/gender

Usage

```
make_hr_part_H1(df)
```

Arguments

df	a dataframe

Value

a txt file

make_hr_part_H2 *Make Human Resources Part H2*

Description

Part H2 — New hires by occupational category, Race/Ethnicity/Gender

Usage

```
make_hr_part_H2(df)
```

Arguments

df	a dataframe

Value

a txt file

make_om_part_A *Make Outcome Measures Part A*

Description

Establishing the Outcome Measures cohorts

Usage

```
make_om_part_A(df)
```

Arguments

df	A dataframe of student statuses

Value

A text file ready for IPEDS upload

make_om_part_B *Make Outcome Measures Part B*

Description

Award Status at Four Years after Entry

Usage

```
make_om_part_B(df)
```

Arguments

df	A dataframe of student statuses

Value

A text file ready for IPEDS upload

make_om_part_C *Make Outcome Measures Part C*

Description

Award Status at Six Years after Entry

Usage

```
make_om_part_C(df)
```

Arguments

df	A dataframe of student statuses

Value

A text file ready for IPEDS upload

make_om_part_D *Make Outcome Measures Part D*

Description

Award Status and Enrollment at Eight Years after Entry

Usage

```
make_om_part_D(df)
```

Arguments

df	A dataframe of student statuses

Value

A text file ready for IPEDS upload

om_students *Dummy data for Outcome Measures functions*

Description

Contains sample values for students

Usage

```
om_students
```

Format

A data frame with 20 rows and 9 columns

Details

See complete information by running `?create_dummy_data_om.R`

prep_com_data_frame *Some initial recoding for Completions*

Description

Some initial recoding for Completions

Usage

```
prep_com_data_frame(df)
```

Arguments

df	a dataframe of student level data or cip information

Value

df

prep_ef1_data_frame *Some initial recoding for Fall Enrollment*

Description

Some initial recoding for Fall Enrollment

Usage

```
prep_ef1_data_frame(df)
```

Arguments

df	a dataframe of student level data

Value

df

prep_hr_data_frame *Some initial recoding for Human Resources*

Description

Some initial recoding for Human Resources

Usage

```
prep_hr_data_frame(df)
```

Arguments

df	a dataframe

Value

a dataframe

prep_om_awards *Set up extra_awards df for Outcome Measures part B, C, D*

Description

Select correct year, ensure all award levels end up with a column

Usage

```
prep_om_awards(df, award)
```

Arguments

df	A dataframe of student statuses
award	A string with the df column to use for processing depending on the OM part

Value

A df ready for use in the make_om_part functions B-D

prep_om_data_frame *Some initial recoding for OutcomeMeasures*

Description

Some initial recoding for OutcomeMeasures

Usage

```
prep_om_data_frame(df)
```

Arguments

df	a dataframe of student level data

Value

df ready for om report scripts

produce_com_report *Shortcut function with all steps to provide a Completions report*

Description

Shortcut function with all steps to provide a Completions report

Usage

```
produce_com_report(
  df,
  extracips = NULL,
  part = "ALL",
  format = "uploadable",
  ugender = TRUE,
  ggender = TRUE
)
```

Arguments

df	A dataframe set up according to the readme
extracips	A dataframe set up according to the readme (optional)
part	A string with what part of the report you want to produce: 'all', 'A', etc.
format	A string ("uploadable" will produce a properly formatted upload file. "readable" will produce a csv of the upload file (only works for one part at a time). "both" will provide both options, but only works with one part at a time.

ugender	A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate completers. Set as FALSE if necessary
ggender	A boolean: TRUE means you are collecting and able to report "another gender" for graduate completers. Set as FALSE if necessary

Value

A txt or csv file at the path of your choice

Examples

```
#entire report
produce_com_report(com_students, com_cips)

#one part as csv instead of key-value
produce_com_report(com_students, com_cips, part = "A", format = "readable")
```

`produce_e1d_report` *Shortcut function with all steps to provide a 12 Month Enrollment report*

Description

Shortcut function with all steps to provide a 12 Month Enrollment report

Usage

```
produce_e1d_report(
  df,
  hrs,
  part = "ALL",
  format = "uploadable",
  ugender = TRUE,
  ggender = TRUE
)
```

Arguments

df	A dataframe set up according to the readme for students
hrs	A dataframe set up according to the readme for instructional activity
part	A string with what part of the report you want to produce: 'all', 'A', etc.

format	A string ("uploadable" will produce a properly formatted upload file. "readable" will produce a csv of the upload file (only works for one part at a time). "both" will provide both options, but only works with one part at a time.
ugender	A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate students Set as FALSE if necessary
ggender	A boolean: TRUE means you are collecting and able to report "another gender" for graduate students. Set as FALSE if necessary

Value

A txt or csv file at the path of your choice

Examples

```
#entire report
produce_e1d_report(e1d_student, e1d_instr)

#one part, as csv instead of key-value file
produce_e1d_report(e1d_student, part = "A", format = "readable")
```

---

produce_ef1_report *Shortcut function with all steps to provide a Fall Enrollment report*

Description

Shortcut function with all steps to provide a Fall Enrollment report

Usage

```
produce_ef1_report(
  students,
  retention,
  part = "ALL",
  include_optional = FALSE,
  format = "uploadable",
  ugender = TRUE,
  ggender = TRUE
)
```

Arguments

students	A dataframe set up according to the readme with student data
retention	A dataframe set up according to the readme with retention data
part	A string with what part of the report you want to produce: 'all', 'A', etc.
include_optional	A boolean flag for whether optional parts should be included
format	A string ("uploadable" will produce a properly formatted upload file. "readable" will produce a csv of the upload file (only works for one part at a time). "both" will provide both options, but only works with one part at a time.
ugender	A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate completers. Set as FALSE if necessary
ggender	A boolean: TRUE means you are collecting and able to report "another gender" for graduate completers. Set as FALSE if necessary

Value

A txt or csv file at the path of your choice

Examples

```
#entire report
produce_ef1_report(ef1_students, ef1_retention)

#entire report with optional sections
produce_ef1_report(ef1_students, ef1_retention, include_optional = TRUE)

#one part as csv instead of key-value
produce_ef1_report(ef1_students, part = 'D', format = 'readable')
```

---

produce_gr200_report *Shortcut function with all steps to provide a Grad Rates 200 report*

Description

Shortcut function with all steps to provide a Grad Rates 200 report

Usage

```
produce_gr200_report(df, format = "uploadable")
```

Arguments

df	a dataframe set up according to the readme
format	A string ("uploadable" will produce a properly formatted upload file. "readable" will produce a csv of the upload file (only works for one part at a time). "both" will provide both options, but only works with one part at a time.

Value

A txt or csv file at the path of your choice

Examples

```
#entire report
produce_gr200_report(gr200_students)
```

---

produce_gr_report *Shortcut function with all steps to provide a Graduation Rates report*

Description

Shortcut function with all steps to provide a Graduation Rates report

Usage

```
produce_gr_report(df, part = "ALL", format = "uploadable", ugender = TRUE)
```

Arguments

df	a dataframe set up according to the readme
part	a string with what part of the report you want to produce "all", "A1", etc.
format	A string ("uploadable" will produce a properly formatted upload file. "readable" will produce a csv of the upload file (only works for one part at a time). "both" will provide both options, but only works with one part at a time.
ugender	A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate students. Set as FALSE if necessary

Value

A txt or csv file at the path of your choice

Examples

```
#entire report
produce_gr_report(gr_students)

#one part in csv format instead of key-value
produce_gr_report(gr_students, part = "B", format = "readable")
```

`produce_hr_report` *Shortcut function with all steps to provide a Human Resources report*

Description

Shortcut function with all steps to provide a Human Resources report

Usage

```
produce_hr_report(df, part = "all", format = "uploadable")
```

Arguments

`df`	a dataframe set up according to the readme
`part`	a string with what part of the report you want to produce "all", "A1", etc.
`format`	A string (`"uploadable"` will produce a properly formatted upload file. `"readable"` will produce a csv of the upload file (only works for one part at a time). `"both"` will provide both options, but only works with one part at a time.

Value

A txt or csv file at the path of your choice

Examples

```
#entire report
produce_hr_report(hr_staff)

#subsection with csv output instead of key-value txt
produce_hr_report(hr_staff, part = "A1", format = "readable")
```

produce_om_report *Shortcut function with all steps to provide an Outcome Measures report*

Description

Shortcut function with all steps to provide an Outcome Measures report

Usage

```
produce_om_report(df, part = "ALL", format = "uploadable")
```

Arguments

df	A dataframe set up according to the readme
part	A string with what part of the report you want to produce: 'all', 'A', etc.
format	A string ("uploadable" will produce a properly formatted upload file. "readable" will produce a csv of the upload file (only works for one part at a time). "both" will provide both options, but only works with one part at a time.

Value

A txt or csv file at the path of your choice

Examples

```
#entire report
produce_om_report(om_students)

#one part with csv output instead of key-value
produce_om_report(om_students, part = 'A', format = 'readable')
```

produce_other_report *Produce an upload-compatible txt file from pre-aggregated files*

Description

Use this function to create a key-value pair uploadable file from your own prepared dataframes, instead of using a different (provided) produce function. Your dataframes must be prepped to match final submission requirements as laid out by IPEDS (or whatever survey you will use this for. Use this function for one survey at a time, and add a separate dataframe for each part to the ... argument. See vignette for more details.

Usage

```
produce_other_report(..., survey = "MySurvey", part = "AllParts")
```

Arguments

`...`	dataframes (one for each survey part, in order)
`survey`	string with the survey name you'd like in your filename
`part`	string with the part name (subname) you'd like your file name

Value

txt file on your computer with the title *[survey]_[part]_[today's date].txt*

Note

You must name the arguments for `survey` and `part` if using non-default value. If the arguments are unnamed, the function will assume their values are additional dataframes.

Examples

```
#With built-in R data
produce_other_report(mtcars[1:5,], iris[1:5,], ToothGrowth[1:5,], survey = 'FakeSurvey')


#Will not execute properly (argument unnamed)
#produce_other_report(mtcars[1:5,], iris[1:5,], ToothGrowth[1:5,], 'FakeSurvey')
```

`set_report_path` *Set the path for where the reports will be saved to.*

Description

Set the path for where the reports will be saved to.

Usage

```
set_report_path()
```

Value

path

specs_COM *Table of data requirements for Completions starting dataframe*

Description

Table of data requirements for Completions starting dataframe

Usage

```
specs_COM
```

Format

A data frame with 20 rows and 4 columns

specs_E1D *Table of data requirements for 12 Month Enrollment starting dataframes*

Description

Table of data requirements for 12 Month Enrollment starting dataframes

Usage

```
specs_E1D
```

Format

A data frame with 17 rows and 4 columns

specs_EF1 *Table of data requirements for Fall Enrollment starting dataframes*

Description

Table of data requirements for Fall Enrollment starting dataframes

Usage

```
specs_EF1
```

Format

A data frame with 23 rows and 4 columns

specs_GR *Table of data requirements for Graduation Rates starting dataframe*

Description

Table of data requirements for Graduation Rates starting dataframe

Usage

```
specs_GR
```

Format

A data frame with 14 rows and 3 columns

specs_GR200 *Table of data requirements for Grad Rates 200 starting dataframe*

Description

Table of data requirements for Grad Rates 200 starting dataframe

Usage

```
specs_GR200
```

Format

A data frame with 5 rows and 3 columns

specs_HR *Table of data requirements for HR starting dataframe*

Description

Table of data requirements for HR starting dataframe

Usage

```
specs_HR
```

Format

A data frame with 13 rows and 3 columns

specs_OM *Table of data requirements for OM starting dataframe*

Description

Table of data requirements for OM starting dataframe

Usage

```
specs_OM
```

Format

A data frame with 9 rows and 3 columns

write_report *Write the prepared data to a txt file in key-value format*

Description

Write the prepared data to a txt file in key-value format

Usage

```
write_report(..., survey, part, output_path)
```

Arguments

...	dataframes (one for each survey part, in order)
survey	a string (which [IPEDS] survey)
part	a string (which upload part of the survey)
output_path	a file path (where the file should be saved)

Value

a txt file (at the path location)

Note

All arguments for this function are required and must be named. Dataframes must have the key as the column name (with appropriate capitalization) and the value in the cells

`write_report_csv` *Write the prepared data to a csv file*

Description

Write the prepared data to a csv file

Usage

```
write_report_csv(df, survey, part, output_path)
```

Arguments

`df`	a dataframe (prepared via the 'make' scripts)
`survey`	a string (which IPEDS survey)
`part`	a string (which upload part of the survey)
`output_path`	a path (which folder the report should go in)

Value

a csv file (at the path location)

Note

All arguments for this function are required. The dataframe must have the key as the column name (with appropriate capitalization) and the value in the cells

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