

Package ‘IPEDSuploadables’

December 6, 2025

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

Version 3.0.0

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>

License MIT + file LICENSE

Encoding UTF-8

LazyData true

RoxygenNote 7.3.2

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

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

VignetteBuilder knitr

Depends R (>= 3.6.0)

Config/testthat/edition 2

NeedsCompilation no

Author Alison Lanski [aut, cre],
 Shiloh Fling [aut],
 Edwin Welch [aut]
Maintainer Alison Lanski <alanski@nd.edu>
Repository CRAN
Date/Publication 2025-12-06 14:00:07 UTC

Contents

adm_students	4
apply_upload_format	4
com_cips	5
com_students	5
create_dummy_data_adm	6
create_dummy_data_com	6
create_dummy_data_e1d	7
create_dummy_data_efl	8
create_dummy_data_gr	9
create_dummy_data_gr200	9
create_dummy_data_hr	10
create_dummy_data_om	11
e1d_instr	11
e1d_students	12
efl_retention	12
efl_students	13
get_ipeds_unitid	13
gr200_students	14
gr_students	14
hr_staff	15
IPEDSuploadables	15
make_adm_part_B	15
make_adm_part_C	16
make_adm_part_D	16
make_adm_part_F	17
make_adm_part_G	17
make_adm_part_H	18
make_com_part_A	18
make_com_part_B	19
make_com_part_C	19
make_com_part_D	20
make_com_part_E	20
make_e1d_part_A	21
make_e1d_part_B	21
make_e1d_part_C	22
make_e1d_part_D	22
make_e1d_part_E	23
make_e1d_part_F	23

make_ef1_part_A	24
make_ef1_part_B	24
make_ef1_part_C	25
make_ef1_part_D	25
make_ef1_part_E	26
make_ef1_part_F	26
make_ef1_part_G	27
make_ef1_part_H	27
make_gr200	28
make_gr_part_B	28
make_gr_part_C	29
make_hr_part_A1	29
make_hr_part_A2	30
make_hr_part_B1	30
make_hr_part_B2	31
make_hr_part_B3	31
make_hr_part_D1	32
make_hr_part_D2	32
make_hr_part_D3	33
make_hr_part_D4	33
make_hr_part_G1	34
make_hr_part_G2	34
make_hr_part_H1	35
make_hr_part_H2	35
make_om_part_A	36
make_om_part_B	36
make_om_part_C	37
make_om_part_D	37
om_students	38
prep_adm_data_frame	38
prep_com_data_frame	39
prep_ef1_data_frame	39
prep_hr_data_frame	40
prep_om_awards	40
prep_om_data_frame	41
produce_adm_report	41
produce_com_report	42
produce_e1d_report	43
produce_ef1_report	44
produce_gr200_report	45
produce_gr_report	46
produce_hr_report	47
produce_om_report	47
produce_other_report	48
set_report_path	49
specs_ADM	49
specs_COM	50
specs_E1D	50

specs_EF1	50
specs_GR	51
specs_GR200	51
specs_HR	51
specs_OM	52
write_report	52
write_report_csv	53

Index	54
--------------	-----------

adm_students	<i>Dummy student-level data for Admissions parts B, C, D, F, G, H</i>
--------------	---

Description

Contains 40 fictional student applicant records with all required data

Usage

adm_students

Format

A data frame with 40 rows (student applicants) and 18 columns

Details

See complete information by running ?create_dummy_data_adm.R

apply_upload_format	<i>Shortcut function to turn a dataframe into key-value pairs</i>
---------------------	---

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_adm` *Create dummy data for testing the Admissions functions*

Description

Creates dummy data for testing the Admissions functions

Usage

```
create_dummy_data_adm(seed = 4567)
```

Arguments

`seed` Number to set a seed to randomize exam scores

Value

a dataframe of 40 applicants ready for the rest of the Admissions functions

Examples

```
#use default seed
admissions <- create_dummy_data_adm()

#use custom seed
admissions_scores <- create_dummy_data_adm(seed = 123456)
```

`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 dataframe ready for the rest of the ef1 scripts

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	<i>Create dummy data for testing the outcome measures functions</i>
----------------------	---

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	<i>Dummy aggregated data for 12 Month Enrollment part B</i>
-----------	---

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_students	<i>Dummy student-level data for 12 Month Enrollment parts A, C, D, E, and F</i>
--------------	---

Description

Contains 100 fictional student records with all required data

Usage

e1d_students

Format

A data frame with 100 rows (students) and 14 columns

Details

See complete information by running ?create_dummy_data_e1d.R

ef1_retention	<i>Dummy student retention data for Fall Enrollment scripts part E</i>
---------------	--

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 13 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	<i>Dummy staff data for Human Resources functions</i>
----------	---

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	<i>IPEDSuploadables package</i>
------------------	---------------------------------

Description

Tools to assist data formatting for upload to IPEDS surveys

Details

See the README on [GitHub](#) or view documentation at [the pkgdown site](#)

make_adm_part_B	<i>Make Admissions Part B (First-time student demographics)</i>
-----------------	---

Description

Aggregates First-Time student applicants by sex, race/ethnicity.

Usage

```
make_adm_part_B(df)
```

Arguments

df	A dataframe of applicant information
----	--------------------------------------

Value

Admissions Part B data with the required IPEDS structure

make_adm_part_C	<i>Make Admissions Part C (First-time SAT/ACT scores)</i>
-----------------	---

Description

If SAT or ACT scores were used for admission decisions it calculates the requisite percentiles for submission.

Usage

```
make_adm_part_C(df, ptype = 7)
```

Arguments

df	A dataframe of applicant information
ptype	(Optional) An integer [1-9] indicating which calculation method to use for percentiles. The default value within R and here is 7. To see details, run <code>?quantile</code> and scroll down to "Type".

Value

Admissions Part C data with the required IPEDS structure

make_adm_part_D	<i>Make Admissions Part D (First-time sex unknown)</i>
-----------------	--

Description

Counts the number of unknown sex for First-time students

Usage

```
make_adm_part_D(df)
```

Arguments

df	A dataframe of applicant information
----	--------------------------------------

Value

Admissions Part D data with the required IPEDS structure

make_adm_part_F	<i>Make Admissions Part F (Transfer student demographics)</i>
-----------------	---

Description

Aggregates Transfer student applicants by sex, race/ethnicity.

Usage

```
make_adm_part_F(df)
```

Arguments

df	A dataframe of applicant information
----	--------------------------------------

Value

Admissions Part F data with the required IPEDS structure

make_adm_part_G	<i>Make Admissions Part G (Transfer sex unknown)</i>
-----------------	--

Description

Counts the number of unknown sex for Transfer students

Usage

```
make_adm_part_G(df)
```

Arguments

df	A dataframe of applicant information
----	--------------------------------------

Value

Admissions Part G data with the required IPEDS structure

make_adm_part_H	<i>Make Admissions Part H (Transfer SAT/ACT scores)</i>
-----------------	---

Description

If SAT or ACT scores were used for admission decisions it calculates the requisite percentiles for submission.

Usage

```
make_adm_part_H(df, ptype = 7)
```

Arguments

- df A dataframe of applicant information
- ptype (Optional) An integer [1-9] indicating which calculation method to use for percentiles. The default value within R and here is 7. To see details, run ?quantile and scroll down to "Type".

Value

Admissions Part H data with the required IPEDS structure

make_com_part_A	<i>Make Completions Part A</i>
-----------------	--------------------------------

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 dataframe with the required IPEDS structure for this survey part

make_com_part_B	<i>Make Completions Part B</i>
-----------------	--------------------------------

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 dataframe with the required IPEDS structure for this survey part

make_com_part_C	<i>Make Completions Part C</i>
-----------------	--------------------------------

Description

Make Completions Part C

Usage

```
make_com_part_C(df)
```

Arguments

df	A dataframe of student/degree information
----	---

Value

A dataframe with the required IPEDS structure for this survey part

make_com_part_D	<i>Make Completions Part D</i>
-----------------	--------------------------------

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 dataframe with the required IPEDS structure for this survey part

make_com_part_E	<i>Make Completions Part E (gender details)</i>
-----------------	---

Description

Make Completions Part E (gender details)

Usage

```
make_com_part_E(  
  df,  
  ugender = lifecycle::deprecated(),  
  ggender = lifecycle::deprecated()  
)
```

Arguments

- df A dataframe of student/degree information
- ugender ‘r lifecycle::badge("deprecated")‘ A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate completers, even if you have no (or few) such students. Set as FALSE if necessary. ****Starting in 2025-2026, this argument will be ignored by later code.****
- ggender ‘r lifecycle::badge("deprecated")‘ A boolean: TRUE means you are collecting and able to report "another gender" for graduate completers, even if you have no (or few) such students. Set as FALSE if necessary. ****Starting in 2025-2026, this argument will be ignored by later code.****

Value

A dataframe with the required IPEDS structure for this survey part

make_e1d_part_A	<i>Make 12 Month Enrollment Part A</i>
-----------------	--

Description

Make 12 Month Enrollment Part A

Usage

```
make_e1d_part_A(df)
```

Arguments

df A dataframe of student/degree information

Value

A dataframe with the required IPEDS structure for this survey part

make_e1d_part_B	<i>Make 12 Month Enrollment Part B</i>
-----------------	--

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 dataframe with the required IPEDS structure for this survey part

make_e1d_part_C	<i>Make 12 Month Enrollment Part C</i>
-----------------	--

Description

Make 12 Month Enrollment Part C

Usage

```
make_e1d_part_C(df)
```

Arguments

df	A dataframe of student/degree information
----	---

Value

A dataframe with the required IPEDS structure for this survey part

make_e1d_part_D	<i>Make 12 Month Enrollment Part D (gender details)</i>
-----------------	---

Description

Make 12 Month Enrollment Part D (gender details)

Usage

```
make_e1d_part_D(  
  df,  
  ugender = lifecycle::deprecated(),  
  ggender = lifecycle::deprecated()  
)
```

Arguments

df	A dataframe of student/degree information
ugender	‘r lifecycle::badge("deprecated")‘ A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate students, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2025-2026, this argument will be ignored by later code.**
ggender	‘r lifecycle::badge("deprecated")‘ A boolean: TRUE means you are collecting and able to report "another gender" for graduate students, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2025-2026, this argument will be ignored by later code.**

Value

A dataframe with the required IPEDS structure for this survey part

make_e1d_part_E	<i>Make 12 Month Enrollment Part E</i>
-----------------	--

Description

R/E and Gender counts for dual enrollment (high school students)

Usage

```
make_e1d_part_E(df)
```

Arguments

df A dataframe of student/degree information

Value

A dataframe with the required IPEDS structure for this survey part

make_e1d_part_F	<i>Make 12 Month Enrollment Part F</i>
-----------------	--

Description

Flag questions about high school students enrolled for credit

Usage

```
make_e1d_part_F(df)
```

Arguments

df A dataframe of student/degree information

Value

A dataframe with the required IPEDS structure for this survey part

make_ef1_part_A	<i>Make Fall Enrollment Part A</i>
-----------------	------------------------------------

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 dataframe with the required IPEDS structure for this survey part

make_ef1_part_B	<i>Make Fall Enrollment Part B</i>
-----------------	------------------------------------

Description

Student Counts by Age/gender

Usage

```
make_ef1_part_B(df)
```

Arguments

df	A dataframe of student information
----	------------------------------------

Value

A dataframe with the required IPEDS structure for this survey part

make_efl_part_C	<i>Make Fall Enrollment Part C</i>
-----------------	------------------------------------

Description

State of origin for first time students

Usage

```
make_efl_part_C(df)
```

Arguments

df A dataframe of student/degree information

Value

A dataframe with the required IPEDS structure for this survey part

make_efl_part_D	<i>Make Fall Enrollment Part D</i>
-----------------	------------------------------------

Description

Count of new non-degree students

Usage

```
make_efl_part_D(df)
```

Arguments

df A dataframe of student/degree information

Value

A dataframe with the required IPEDS structure for this survey part

make_ef1_part_E	<i>Make Fall Enrollment Part E</i>
-----------------	------------------------------------

Description

Retention counts

Usage

make_ef1_part_E(df)

Arguments

df A dataframe of student/degree information

Value

A dataframe with the required IPEDS structure for this survey part

make_ef1_part_F	<i>Make Fall Enrollment Part F</i>
-----------------	------------------------------------

Description

Student Faculty Ratio

Usage

make_ef1_part_F(df)

Arguments

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

Value

A dataframe with the required IPEDS structure for this survey part

make_ef1_part_G	<i>Make Fall Enrollment Part G</i>
-----------------	------------------------------------

Description

Distance Ed counts

Usage

```
make_ef1_part_G(df)
```

Arguments

df	A dataframe of student/degree information
----	---

Value

A dataframe with the required IPEDS structure for this survey part

make_ef1_part_H	<i>Make Fall Enrollment Part H (Sex Unknown)</i>
-----------------	--

Description

Make Fall Enrollment Part H (Sex Unknown)

Usage

```
make_ef1_part_H(  
  df,  
  ugender = lifecycle::deprecated(),  
  ggender = lifecycle::deprecated()  
)
```

Arguments

df	A dataframe of student enrollment information
ugender	‘r lifecycle::badge("deprecated")‘ A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate students, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2025-2026, this argument will be ignored by later code.**
ggender	‘r lifecycle::badge("deprecated")‘ A boolean: TRUE means you are collecting and able to report "another gender" for graduate students, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2025-2026, this argument will be ignored by later code.**

Value

A dataframe with the required IPEDS structure for this survey part

make_gr200	<i>Make Graduation Rates 200</i>
------------	----------------------------------

Description

Make Graduation Rates 200

Usage

make_gr200(df)

Arguments

df A dataframe of student/degree information

Value

A dataframe with the required IPEDS structure for this survey part

make_gr_part_B	<i>Make Graduation Rates Part B</i>
----------------	-------------------------------------

Description

Make Graduation Rates Part B

Usage

make_gr_part_B(df)

Arguments

df A dataframe of student/degree information

Value

A dataframe with the required IPEDS structure for this survey part

make_gr_part_C	<i>Make Graduation Rates Part C</i>
----------------	-------------------------------------

Description

Make Graduation Rates Part C

Usage

make_gr_part_C(df)

Arguments

df A dataframe of student/degree information

Value

A dataframe with the required IPEDS structure for this survey part

make_hr_part_A1	<i>Make Human Resources Part A1</i>
-----------------	-------------------------------------

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 dataframe with the required IPEDS structure for this survey part

make_hr_part_A2	<i>Make Human Resources Part A2</i>
-----------------	-------------------------------------

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 dataframe with the required IPEDS structure for this survey part

make_hr_part_B1	<i>Make Human Resources Part B1</i>
-----------------	-------------------------------------

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 dataframe with the required IPEDS structure for this survey part

make_hr_part_B2	<i>Make Human Resources Part B2</i>
-----------------	-------------------------------------

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 dataframe with the required IPEDS structure for this survey part

make_hr_part_B3	<i>Make Human Resources Part B3</i>
-----------------	-------------------------------------

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 dataframe with the required IPEDS structure for this survey part

make_hr_part_D1	<i>Make Human Resources Part D1</i>
-----------------	-------------------------------------

Description

Part D1 — Part-time staff by occupational category

Usage

make_hr_part_D1(df)

Arguments

df a dataframe

Value

A dataframe with the required IPEDS structure for this survey part

make_hr_part_D2	<i>Make Human Resources Part D2</i>
-----------------	-------------------------------------

Description

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

Usage

make_hr_part_D2(df)

Arguments

df a dataframe

Value

A dataframe with the required IPEDS structure for this survey part

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 dataframe with the required IPEDS structure for this survey part

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 dataframe with the required IPEDS structure for this survey part

make_hr_part_G1	<i>Make Human Resources Part G1</i>
-----------------	-------------------------------------

Description

Part G1 — Salaries of INSTRUCTIONAL staff

Usage

make_hr_part_G1(df)

Arguments

df a dataframe

Value

A dataframe with the required IPEDS structure for this survey part

make_hr_part_G2	<i>Make Human Resources Part G2</i>
-----------------	-------------------------------------

Description

Part G2 — Salaries of non-instructional staff

Usage

make_hr_part_G2(df)

Arguments

df a dataframe

Value

A dataframe with the required IPEDS structure for this survey part

make_hr_part_H1	<i>Make Human Resources Part H1</i>
-----------------	-------------------------------------

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 dataframe with the required IPEDS structure for this survey part

make_hr_part_H2	<i>Make Human Resources Part H2</i>
-----------------	-------------------------------------

Description

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

Usage

```
make_hr_part_H2(df)
```

Arguments

df a dataframe

Value

A dataframe with the required IPEDS structure for this survey part

make_om_part_A	<i>Make Outcome Measures Part A</i>
----------------	-------------------------------------

Description

Establishing the Outcome Measures cohorts

Usage

```
make_om_part_A(df)
```

Arguments

df	A dataframe of student statuses
----	---------------------------------

Value

A dataframe with the required IPEDS structure for this survey part

make_om_part_B	<i>Make Outcome Measures Part B</i>
----------------	-------------------------------------

Description

Award Status at Four Years after Entry

Usage

```
make_om_part_B(df)
```

Arguments

df	A dataframe of student statuses
----	---------------------------------

Value

A dataframe with the required IPEDS structure for this survey part

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 dataframe with the required IPEDS structure for this survey part

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 dataframe with the required IPEDS structure for this survey part

om_students	<i>Dummy data for Outcome Measures functions</i>
-------------	--

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_adm_data_frame	<i>Some initial recodes for Admissions parts C and D</i>
---------------------	--

Description

Some initial recodes for Admissions parts C and D

Usage

prep_adm_data_frame(df)

Arguments

df a dataframe of applicant level data

prep_com_data_frame	<i>Some initial recoding for Completions</i>
---------------------	--

Description

Some initial recoding for Completions

Usage

```
prep_com_data_frame(df)
```

Arguments

df a dataframe of student level data or cip information

Value

A dataframe ready for the make_com scripts

prep_ef1_data_frame	<i>Some initial recoding for Fall Enrollment</i>
---------------------	--

Description

Some initial recoding for Fall Enrollment

Usage

```
prep_ef1_data_frame(df)
```

Arguments

df a dataframe of student level data

Value

A dataframe ready for the make_ef1 scripts

prep_hr_data_frame	<i>Some initial recoding for Human Resources</i>
--------------------	--

Description

Some initial recoding for Human Resources

Usage

```
prep_hr_data_frame(df)
```

Arguments

df	a dataframe
----	-------------

Value

A dataframe ready for the make_hr scripts

prep_om_awards	<i>Set up extra_awards df for Outcome Measures part B, C, D</i>
----------------	---

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 dataframe pivoted and prepared for use within 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

A dataframe ready for the make_om scripts

```
produce_adm_report
```

Shortcut function to do all steps to produce a report

Description

Shortcut function to do all steps to produce a report

Usage

```
produce_adm_report(df, ptype = 7, part = "ALL", format = "uploadable")
```

Arguments

`df` A dataframe set up according to the readme

`ptype` (Optional) An integer [1-9] indicating which calculation method to use for test score percentiles. The default value within R and here is 7. To see details, run `?quantile` and scroll down to "Type".

`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

produce_com_report	<i>Shortcut function with all steps to provide a Completions report</i>
--------------------	---

Description

Shortcut function with all steps to provide a Completions report

Usage

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

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	'r lifecycle::badge("deprecated")' A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate completers, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2025-2026, this argument will be ignored by later code.**
ggender	'r lifecycle::badge("deprecated")' A boolean: TRUE means you are collecting and able to report "another gender" for graduate completers, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2025-2026, this argument will be ignored by later code.**

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	<i>Shortcut function with all steps to provide a 12 Month Enrollment report</i>
--------------------	---

Description

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

Usage

```
produce_e1d_report(
  df,
  hrs,
  part = "ALL",
  format = "uploadable",
  ugender = lifecycle::deprecated(),
  ggender = lifecycle::deprecated()
)
```

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	'r lifecycle::badge("deprecated")' A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate completers, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2025-2026, this argument will be ignored by later code.**
ggender	'r lifecycle::badge("deprecated")' A boolean: TRUE means you are collecting and able to report "another gender" for graduate completers, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2025-2026, this argument will be ignored by later code.**

Value

A txt or csv file at the path of your choice

Examples

```
#entire report
produce_e1d_report(e1d_students, e1d_instr)

#one part, as csv instead of key-value file
produce_e1d_report(e1d_students, part = "A", format = "readable")
```

produce_ef1_report	<i>Shortcut function with all steps to provide a Fall Enrollment report</i>
--------------------	---

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 = lifecycle::deprecated(),
  ggender = lifecycle::deprecated()
)
```

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	<code>'r lifecycle::badge("deprecated")'</code> A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate completers, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2025-2026, this argument will be ignored by later code.**
ggender	<code>'r lifecycle::badge("deprecated")'</code> A boolean: TRUE means you are collecting and able to report "another gender" for graduate completers, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2025-2026, this argument will be ignored by later code.**

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	<i>Shortcut function with all steps to provide a Graduation Rates report</i>
-------------------	--

Description

Shortcut function with all steps to provide a Graduation Rates report

Usage

```
produce_gr_report(
  df,
  part = "ALL",
  format = "uploadable",
  ugender = lifecycle::deprecated()
)
```

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	<code>'r lifecycle::badge("deprecated")'</code> A boolean: TRUE means you are collecting and able to report "another gender" for undergraduate students, even if you have no (or few) such students. Set as FALSE if necessary. **Starting in 2024-2025, this argument will be ignored by later code.**

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	<i>Shortcut function with all steps to provide a Human Resources report</i>
-------------------	---

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	<i>Shortcut function with all steps to provide an Outcome Measures report</i>
-------------------	---

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	<i>Set the path for where the reports will be saved to.</i>
-----------------	---

Description

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

Usage

```
set_report_path()
```

Value

path

specs_ADM	<i>Table of data requirements for the Admissions starting dataframe</i>
-----------	---

Description

Table of data requirements for the Admissions starting dataframe

Usage

```
specs_ADM
```

Format

A data frame with one row per required fact and 3 columns

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 21 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 19 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	<i>Table of data requirements for Graduation Rates starting dataframe</i>
----------	---

Description

Table of data requirements for Graduation Rates starting dataframe

Usage

specs_GR

Format

A data frame with 13 rows and 3 columns

specs_GR200	<i>Table of data requirements for Grad Rates 200 starting dataframe</i>
-------------	---

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	<i>Table of data requirements for HR starting dataframe</i>
----------	---

Description

Table of data requirements for HR starting dataframe

Usage

specs_HR

Format

A data frame with 13 rows and 3 columns

specs_OM	<i>Table of data requirements for OM starting dataframe</i>
----------	---

Description

Table of data requirements for OM starting dataframe

Usage

specs_OM

Format

A data frame with 9 rows and 3 columns

write_report	<i>Write the prepared data to a txt file in key-value format</i>
--------------	--

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	<i>Write the prepared data to a csv file</i>
------------------	--

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

Index

* datasets

- adm_students, [4](#)
- com_cips, [5](#)
- com_students, [5](#)
- e1d_instr, [11](#)
- e1d_students, [12](#)
- ef1_retention, [12](#)
- ef1_students, [13](#)
- gr200_students, [14](#)
- gr_students, [14](#)
- hr_staff, [15](#)
- om_students, [38](#)
- specs_ADM, [49](#)
- specs_COM, [50](#)
- specs_E1D, [50](#)
- specs_EF1, [50](#)
- specs_GR, [51](#)
- specs_GR200, [51](#)
- specs_HR, [51](#)
- specs_OM, [52](#)

adm_students, [4](#)

apply_upload_format, [4](#)

com_cips, [5](#)

com_students, [5](#)

create_dummy_data_adm, [6](#)

create_dummy_data_com, [6](#)

create_dummy_data_e1d, [7](#)

create_dummy_data_ef1, [8](#)

create_dummy_data_gr, [9](#)

create_dummy_data_gr200, [9](#)

create_dummy_data_hr, [10](#)

create_dummy_data_om, [11](#)

e1d_instr, [11](#)

e1d_students, [12](#)

ef1_retention, [12](#)

ef1_students, [13](#)

get_ipeds_unitid, [13](#)

gr200_students, [14](#)

gr_students, [14](#)

hr_staff, [15](#)

IPEDSuploadables, [15](#)

make_adm_part_B, [15](#)

make_adm_part_C, [16](#)

make_adm_part_D, [16](#)

make_adm_part_F, [17](#)

make_adm_part_G, [17](#)

make_adm_part_H, [18](#)

make_com_part_A, [18](#)

make_com_part_B, [19](#)

make_com_part_C, [19](#)

make_com_part_D, [20](#)

make_com_part_E, [20](#)

make_e1d_part_A, [21](#)

make_e1d_part_B, [21](#)

make_e1d_part_C, [22](#)

make_e1d_part_D, [22](#)

make_e1d_part_E, [23](#)

make_e1d_part_F, [23](#)

make_ef1_part_A, [24](#)

make_ef1_part_B, [24](#)

make_ef1_part_C, [25](#)

make_ef1_part_D, [25](#)

make_ef1_part_E, [26](#)

make_ef1_part_F, [26](#)

make_ef1_part_G, [27](#)

make_ef1_part_H, [27](#)

make_gr200, [28](#)

make_gr_part_B, [28](#)

make_gr_part_C, [29](#)

make_hr_part_A1, [29](#)

make_hr_part_A2, [30](#)

make_hr_part_B1, [30](#)

make_hr_part_B2, [31](#)

make_hr_part_B3, [31](#)

make_hr_part_D1, [32](#)
make_hr_part_D2, [32](#)
make_hr_part_D3, [33](#)
make_hr_part_D4, [33](#)
make_hr_part_G1, [34](#)
make_hr_part_G2, [34](#)
make_hr_part_H1, [35](#)
make_hr_part_H2, [35](#)
make_om_part_A, [36](#)
make_om_part_B, [36](#)
make_om_part_C, [37](#)
make_om_part_D, [37](#)

om_students, [38](#)

prep_adm_data_frame, [38](#)
prep_com_data_frame, [39](#)
prep_ef1_data_frame, [39](#)
prep_hr_data_frame, [40](#)
prep_om_awards, [40](#)
prep_om_data_frame, [41](#)
produce_adm_report, [41](#)
produce_com_report, [42](#)
produce_e1d_report, [43](#)
produce_ef1_report, [44](#)
produce_gr200_report, [45](#)
produce_gr_report, [46](#)
produce_hr_report, [47](#)
produce_om_report, [47](#)
produce_other_report, [48](#)

set_report_path, [49](#)
specs_ADM, [49](#)
specs_COM, [50](#)
specs_E1D, [50](#)
specs_EF1, [50](#)
specs_GR, [51](#)
specs_GR200, [51](#)
specs_HR, [51](#)
specs_OM, [52](#)

write_report, [52](#)
write_report_csv, [53](#)