

derive test score

\* get ready for merge

① calculate average

② replace NA

⇒ how to use `assess`?

Student-ID	Subject	month	score	missing	score-derived
Average					

```
main <- func() {  
  interim  
  data <- read_intermediate()  
  data %>%  
    gen_na_as_end() %>%  
    compute - average() %>%  
    save_intermediate(folder = , file = )  
}
```

```
replace_na <- func(data-input, var-name) {  
  data-output <- data-input %>%  
    dplyr::mutate(missing-dmg = { 1 if score == . or NA %>%  
                                0  
    dplyr::mutate(score-derived = { score if missing == 0  
                                    0  
  }  
  return(data-output)  
}
```

```
compute-average <- func(data-input) {  
  data-arg <- data-input %>%  
    dplyr::group_by(student ID, subject, month) %>%  
    dplyr::summarize(score by subject)  
  reorganize ⇒ subject = average  
  stack  
  & average by student ID.  
  return(data-output)  
}
```

\* reshape ⇒ 両方

end-with

sem  
nowbird

\* 「お世」いす... 5 7 IT 200

→ NOT vulnerable to new packages  
redefining the name.

• X conflicted

CHECK.

derive breakfast

student-name	month	date	breakfast	duplicate	# obs	pancake	dog flakes
						1	0
						0	1

```
main = func() {
  data = read_intermediate(folds, file = )
  data_interim = data_input %>%
    reshape_duplicate() %>%
    gen_dummy(varname = "pancakes",
              var_list = c("pancake",
                           "hot cake",
                           "pan cake")) %>%
    gen_dummy(varname = "dog flakes",
              var_list = "dog flakes")
  data_interim %>%
    collapse_date() %>%
    save_interim(file_name = )
}
```

```
reshape_duplicate = func(data_input) {
  pivot_wider()
  return(data_output)
}
```

```
gen_breakfast_dummy = func(varname, var_list) {
  data_output = data_input %>%
    dplyr::mutate(
      varname = if (breakfast* in var_list)
    )
  return(data_output)
}
```

```
remove_irrelevant_date = func() {
  filter(not in varlist)
  return(output)
}
```

```
collapse_date = func() {
  group_by(student_name, month)
  summarise(
    mean_pancake = mean(pancake),
    max_dogflakes = max(dogflakes)
  )
}
```

- ① filter duplicate = 0
- ② count # of pancakes / dog flakes
- ③ consistent names? X
- ④ missing, or # days per month

dummies

X pivot-wider

in Tibble, space allowed.

(and/or operator)

% in %

12/9/2019  
~ 1/13/20

final-merge.

score.

pancake-fraction  
dogflak-dumpr

select & merge.

Technique

Student-ID	month	Student-ID	month	Student-ID	Student-ID
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- ① collapse breakfast date
- ②

test-score.Rds

breakfast.Rds

Student-id.Rds

```

main <- func() {
  test-score <- read-intervim ( folder = , file = )
  breakfast <- read-intervim ( folder = , file = )
  student-id <- read-intervim ( folder = , file = )
  master <- merge-all ( test-score, breakfast, student-id )
  save-intervim ( master, folder = )
}

```

{ string  
numeric

Vit: translate into English

check - merge variable like STATA?

merge-all <- func ( , , ) {

- ① merge on 1 key
- ③ merge on 2 keys

\* inner-join  
\* left-join

\* convert

\* check e.g.

.gen-month

Student-ID	Student-ID	month	Score	subject	pancake%	dogflak
		9				
		10				
		11				
		12				
		.				