Data Formatting

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Formatting Data

Formatting Semester Data

```
setwd("/Users/kitanoyuuto/Downloads/warmup training package/01_data/raw/semester_dummy")
semester_1 <- read.csv("semester_data_1.csv", header = TRUE, skip = 1)

semester_2 <- read.csv("semester_data_2.csv")

colnames(semester_2) <- colnames(semester_1)

semester_data <- rbind(semester_1, semester_2) %>%
    select(-Y)

semester_data <- semester_data %>%
    group_by(unitid) %>%
    mutate(semester_start_year = ifelse(any(semester == 1), min(year[semester == 1]), NA))

semester_data <- semester_data %>%
    mutate(semester_flag = ifelse(year >= semester_start_year, 1, 0))
```

Formatting Gradrate Data

```
library(readxl)
library(stringr)

file_paths <- list.files(path = "/Users/kitanoyuuto/Downloads/warmup training package/01_data/raw/outcovalid_file_paths <- file_paths[!str_detect(file_paths, "~\\$")]

data_list <- map(valid_file_paths, read_excel)

graduate_data <- bind_rows(data_list) %>%
  filter(year <= 2010) %>%
  mutate(
  tot4yrgrads = as.numeric(tot4yrgrads),
  totcohortsize = as.numeric(totcohortsize),
  women_gradrate_4yr = as.numeric(women_gradrate_4yr),
  m_4yrgrads = as.numeric(m_4yrgrads),
  m_cohortsize = as.numeric(m_cohortsize)
```

```
mutate(
    w_grad = round(women_gradrate_4yr * 0.01,3),
    t_grad = round(tot4yrgrads / totcohortsize,3),
    m_grad = round(m_4yrgrads / m_cohortsize,3)
)
```

Formatting Covariates Data

Left Join

```
data <- left_join(semester_data, graduate_data, by = c("unitid", "year"))
data <- left_join(data, cov_wide, by = c("unitid", "year"))</pre>
```