

# Data Cleaning

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## Download data

Instruction:

1. Go to [IPEDS Data Center](#), and click on **Complete Data Files**
2. Download Data File HD2024, EF2024D, etc.
3. Open the zipped file, extract and put the raw csv into this repo's data/raw/ folder

```
# Directory
hd2024 <- read.csv("data/raw/hd2024.csv")

# Fall Enrollment
ef2024d <- read.csv("data/raw/ef2024d.csv")
ef2024b <- read.csv("data/raw/ef2024b.csv")

# Check dim
dim(hd2024)
## [1] 6072    72
dim(ef2024d)
## [1] 5578    33
dim(ef2024b)
## [1] 76359     22
```

## Process tables with multiple id

```
ef2024b_inst <- ef2024b %>%
  group_by(UNITID) %>%
  summarize(
    total_enrollment = sum(EFAGE09, na.rm = TRUE),
    total_men = sum(EFAGE07, na.rm = TRUE),
    total_women = sum(EFAGE08, na.rm = TRUE)
  )
```

## Get removed UNITIDs

```
remove_unitids <- bind_rows(
  # 2-year schools
  hd2024 %>%
```

```

filter(SECTOR %in% c(4, 5, 6, 7, 8, 9, 99)) %>%
  select(UNITID),

# < 500 population
ef2024b_inst %>%
  filter(total_enrollment < 500 | is.na(total_enrollment)) %>%
  select(UNITID)
) %>%
  distinct()

```

## Helper function to remove rows

```

filter_ipeds_2024 <- function(df, remove_tbl) {
  df %>%
    anti_join(remove_tbl, by = "UNITID")
}

```

## Remove rows and write tables

```

hd2024_clean <- filter_ipeds_2024(hd2024, remove_unitids)
ef2024d_clean <- filter_ipeds_2024(ef2024d, remove_unitids)
ef2024b_clean <- filter_ipeds_2024(ef2024b, remove_unitids)

dim(hd2024_clean)
## [1] 2830    72

dim(ef2024d_clean)
## [1] 2467    33

dim(ef2024b_clean)
## [1] 50290    22

write.csv(hd2024_clean, "data/cleaned/hd2024_clean.csv", row.names = FALSE)
write.csv(ef2024d_clean, "data/cleaned/ef2024d_clean.csv", row.names = FALSE)
write.csv(ef2024b_clean, "data/cleaned/ef2024b_clean.csv", row.names = FALSE)

```