

# Exercise: Markdown

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## Set up the coding environment

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v ggplot2    3.5.1      v tibble    3.2.1
## v lubridate  1.9.3      v tidyr     1.3.1
## v purrr      1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
## here() starts at /home/guest/ede_fall2024
```

## Wrangle the data

```
#Subset columns and rows
nutrient_data <- nutrient_data_raw %>%
  select(-c(lakeid,depth_id,comments)) %>%
  filter(depth == 0) %>%
  drop_na()

#Compute summary stats for total nitrogen
nutrient_data_tn <- nutrient_data %>%
  group_by(lakename) %>%
  summarize(
```

```
mean_tn_ug = mean(tn_ug),  
min_tn_ug = min(tn_ug),  
max_tn_ug = max(tn_ug),  
sd_tn_ug = sd(tn_ug)  
)
```

## Report the summary

Table 1: Summary of Total Nitrogen

lakename	mean_tn_ug	min_tn_ug	max_tn_ug	sd_tn_ug
Paul Lake	368.7564	45.67	628.625	106.3474
Peter Lake	561.8752	219.72	2048.151	305.6491

Table 2: Summary of Total Nitrogen

lakename	mean_tn_ug	min_tn_ug	max_tn_ug	sd_tn_ug
Paul Lake	368.7564	45.67	628.625	106.3474
Peter Lake	561.8752	219.72	2048.151	305.6491