

HomeworkThree - Practicum Problems

FateenAhmed

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```
library(readr)
aq_data_2021 <- read_csv("data/aqs/annual_conc_by_monitor_2021.csv")

## Rows: 108480 Columns: 55
## -- Column specification -----
## Delimiter: ","
## chr   (19): State Code, County Code, Site Num, Datum, Parameter Name, Sample ...
## dbl   (29): Parameter Code, POC, Latitude, Longitude, Year, Observation Count...
## dtm   (6): 1st Max DateTime, 2nd Max DateTime, 3rd Max DateTime, 4th Max Dat...
## date  (1): Date of Last Change
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.

head(aq_data_2021)

## # A tibble: 6 x 55
##   `State Code` `County Code` `Site Num` `Parameter Code`   POC Latitude
##   <chr>        <chr>        <chr>        <dbl> <dbl>    <dbl>
## 1 01           003          0010          44201     1     30.5
## 2 01           003          0010          44201     1     30.5
## 3 01           003          0010          44201     1     30.5
## 4 01           003          0010          44201     1     30.5
## 5 01           003          0010          88101     1     30.5
## 6 01           003          0010          88101     1     30.5
## # i 49 more variables: Longitude <dbl>, Datum <chr>, `Parameter Name` <chr>,
## #   `Sample Duration` <chr>, `Pollutant Standard` <chr>, `Metric Used` <chr>,
## #   `Method Name` <chr>, Year <dbl>, `Units of Measure` <chr>,
## #   `Event Type` <chr>, `Observation Count` <dbl>, `Observation Percent` <dbl>,
## #   `Completeness Indicator` <chr>, `Valid Day Count` <dbl>,
## #   `Required Day Count` <dbl>, `Exceptional Data Count` <dbl>,
## #   `Null Data Count` <dbl>, `Primary Exceedance Count` <dbl>, ...
```

References