Assignment2

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```
library(ggplot2)
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.0 --
## v tibble 3.0.3 v dplyr 1.0.2
## v tidyr 1.1.1 v stringr 1.4.0
## v readr 1.3.1
                  v forcats 0.5.0
## v purrr 0.3.4
## -- Conflicts ------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
  1.
midwest<-midwest %>% mutate(child_ratio=((poptotal-popadults)/poptotal)*100)
  2.
midwest %>% arrange(-child_ratio) %>% head(10) %>% select(child_ratio)
## # A tibble: 10 x 1
     child_ratio
##
##
          <dbl>
## 1
           51.5
## 2
           50.6
## 3
           49.3
           49.1
## 4
           47.4
## 5
## 6
          47.3
## 7
          47.1
          46.7
## 8
## 9
          46.3
          45.9
## 10
```

3.

```
midwest<-midwest %>% mutate(grade=case_when(
  child_ratio>=45 ~ 'large',
  child_ratio>=30 & child_ratio<45 ~ 'middle',</pre>
  child_ratio<30 ~ 'small'</pre>
))
midwest$grade %>% table()
## .
## large middle small
      11
             417
  4.
midwest<-midwest %>% mutate(asian_ratio=(popasian/poptotal)*100)
midwest %>% arrange(asian_ratio) %>% head(5) %>% select(state, county, asian_ratio)
## # A tibble: 5 x 3
##
     state county
                     asian_ratio
     <chr> <chr>
                           <dbl>
                          0
## 1 WI
           MENOMINEE
## 2 IN
           BENTON
                          0.0106
## 3 IN
           CARROLL
                          0.0159
## 4 OH
           VINTON
                          0.0270
## 5 WI
           IRON
                          0.0325
```