Assignment2

2019150445/Shin Baek Rok

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library(ggplot2)  
library(tidyverse)

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  
## 4 49.1  
## 5 47.4  
## 6 47.3  
## 7 47.1  
## 8 46.7  
## 9 46.3  
## 10 45.9

3.

midwest<-midwest %>% mutate(grade=case\_when(  
 child\_ratio>=45 ~ 'large',  
 child\_ratio>=30 & child\_ratio<45 ~ 'middle',  
 child\_ratio<30 ~ 'small'  
  
))  
midwest$grade %>% table()

## .  
## large middle small   
## 11 417 9

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>  
## 1 WI MENOMINEE 0   
## 2 IN BENTON 0.0106  
## 3 IN CARROLL 0.0159  
## 4 OH VINTON 0.0270  
## 5 WI IRON 0.0325