Q4

rhadoop

2019년 3월 19일

#### 문제 2. 미성년 인구 백분율이 가장 높은 상위 5 개 county(지역)의 미성년 인구 백분율을 출력하세요.

library(tidyverse)

## ─ Attaching packages ──────────────────────────────────────── tidyverse 1.2.1 ─

## ✔ ggplot2 3.1.0 ✔ purrr 0.2.4   
## ✔ tibble 2.1.1 ✔ dplyr 0.8.0.1  
## ✔ tidyr 0.8.3 ✔ stringr 1.2.0   
## ✔ readr 1.1.1 ✔ forcats 0.2.0

## ─ Conflicts ───────────────────────────────────────── tidyverse\_conflicts() ─  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()

library(sqldf)

## Loading required package: gsubfn

## Loading required package: proto

## Loading required package: RSQLite

midwest=as.data.frame(ggplot2::midwest)

### dplyr

midwest %>% mutate(ratio\_asian=popasian/poptotal\*100) %>%   
 arrange(ratio\_asian) %>%   
 select(state,county,ratio\_asian) %>%   
 head(10)

## state county ratio\_asian  
## 1 WI MENOMINEE 0.00000000  
## 2 IN BENTON 0.01059210  
## 3 IN CARROLL 0.01594981  
## 4 OH VINTON 0.02703190  
## 5 WI IRON 0.03250447  
## 6 IL SCOTT 0.05315379  
## 7 IN CLAY 0.06071645  
## 8 MI OSCODA 0.06375925  
## 9 OH PERRY 0.06654625  
## 10 IL PIATT 0.07074865

### sqldf

sqldf("  
 select state, county, popasian/(poptotal\*1.)\*100 as ratio\_asian   
 from midwest  
 order by ratio\_asian  
 limit 10  
 ")

## state county ratio\_asian  
## 1 WI MENOMINEE 0.00000000  
## 2 IN BENTON 0.01059210  
## 3 IN CARROLL 0.01594981  
## 4 OH VINTON 0.02703190  
## 5 WI IRON 0.03250447  
## 6 IL SCOTT 0.05315379  
## 7 IN CLAY 0.06071645  
## 8 MI OSCODA 0.06375925  
## 9 OH PERRY 0.06654625  
## 10 IL PIATT 0.07074865

### R

midwest$ratio\_asian = midwest$popasian/midwest$poptotal\*100  
head(midwest[order(midwest$ratio\_asian),c("state", "county","ratio\_asian")],10)

## state county ratio\_asian  
## 405 WI MENOMINEE 0.00000000  
## 106 IN BENTON 0.01059210  
## 110 IN CARROLL 0.01594981  
## 359 OH VINTON 0.02703190  
## 391 WI IRON 0.03250447  
## 86 IL SCOTT 0.05315379  
## 113 IN CLAY 0.06071645  
## 262 MI OSCODA 0.06375925  
## 341 OH PERRY 0.06654625  
## 74 IL PIATT 0.07074865