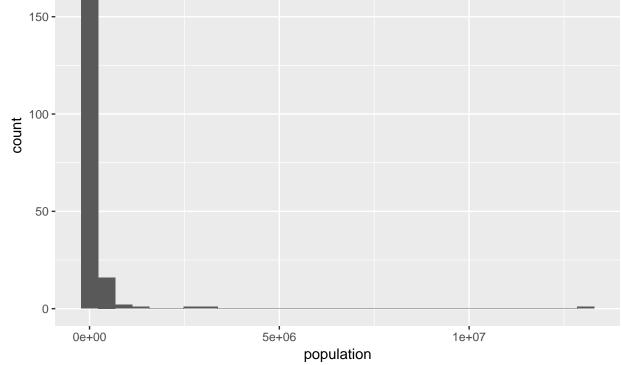
COMPSCIX 415.2 Homework 1

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My Github repository for my assignments can be found at this URL: (https://github.com/santumagic/compscix-415-2assignments.git)

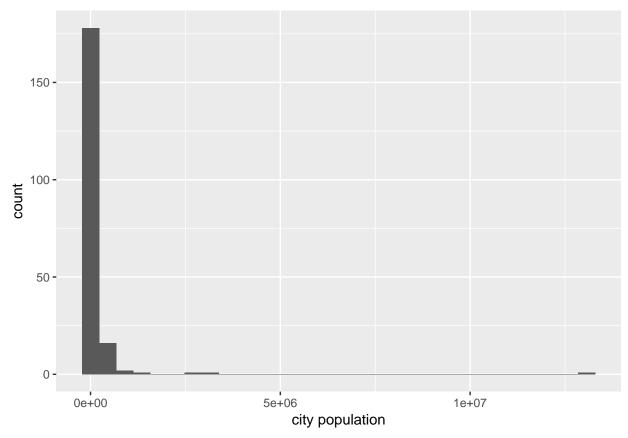
```
library(mdsr)
library(tidyverse)
data("WorldCities")
# QUESTION 1 :
glimpse(WorldCities)
## Observations: 23,018
## Variables: 10
## $ code
                  <int> 3040051, 3041563, 290594, 291074, 291696, 292223...
## $ name
                  <chr> "les Escaldes", "Andorra la Vella", "Umm al Qayw...
<dbl> 1.53414, 1.52109, 55.55517, 55.94320, 56.34199, ...
## $ longitude
                  <chr> "AD", "AD", "AE", "AE", "AE", "AE", "AE", "AE", ...
## $ country
## $ countryRegion <chr> "8", "7", "7", "5", "6", "3", "4", "6", "1", "4"...
## $ population <dbl> 15853, 20430, 44411, 115949, 33575, 1137347, 263...
## $ regionCode
                  <int> 1033, 1037, 2, 2, 20, 11, 4, 6, 16, 15, 275, 4, ...
## $ region
                  <chr> "Europe/Andorra", "Europe/Andorra", "Asia/Dubai"...
                  <chr> "10/15/08", "5/30/10", "11/3/12", "11/30/12", "1...
## $ date
## In the above WorldCities dataset there are 23,018 observations and 10 Variables.
## Below are some variable names.
code, name, lattitude, longitude, country, country, Region, population, regionCode, region, date
## Extract parts of the data
WorldCities <- head(WorldCities, 200) # Top 200 rows
country_col <- WorldCities$country # Pulling the country column by assigning it to country_col
unique(country_col) # Displaying the unique values from the field country_col
## [1] "AD" "AE" "AF" "AG" "AI" "AL" "AM" "AO" "AR"
# QUESTION 2 :
region_col <- WorldCities$region # Pulling the region column by assigning it to region_col
unique(region_col) # Displaying the unique values from the field region
##
  [1] "Europe/Andorra"
                                        "Asia/Dubai"
## [3] "Asia/Kabul"
                                        "America/Antigua"
## [5] "America/Anguilla"
                                        "Europe/Tirane"
## [7] "Asia/Yerevan"
                                        "Africa/Luanda"
## [9] "America/Argentina/Buenos_Aires" "America/Argentina/Cordoba"
## [11] "America/Argentina/Salta"
                                        "America/Argentina/Tucuman"
## [13] "America/Argentina/San_Juan"
```

```
# QUESTION 3 :
country_col <- WorldCities %>% select(country) %>% unique()
country_col %>% unique()
       country
##
## 1
            AD
## 3
            ΑE
## 15
            AF
## 65
            AG
## 66
            AΙ
## 67
            ΑL
## 87
            MA
## 104
            ΑO
## 131
            AR
## VISUALIZATIONS :
WorldCities %>% ggplot(aes(x = population)) + geom_histogram()
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
  150 -
```



WorldCities %>% ggplot(aes(x = population)) + geom_histogram() + xlab('city population')

`stat_bin()` using `bins = 30`. Pick better value with `binwidth`.



```
# QUESTION 4 :
WorldCities %>% ggplot(aes(x = population)) + geom_histogram() + xlab('city population') +
ylab('count of people') + ggtitle('My Title') + theme_bw()
```

`stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

