Q1)

- · First select X, Grad.Rate columns from df
- Then filter X where the Grad.Rate >= 80
- Arrange the data frame in descending order of graduation rate.

```
0 O-intro.R × 1 1-data.R × 2 2-graphics.R × 2 3-stats-simple.R × 3 3-stats.R × 3 7-oop.R × 3 8-ml.R ×
      ## 2 Source on Save | Q / V | [
                                                                                                                        → Run 🕪 🕩 Source 🗸 🗏
                   Incarnate Word College
Johns Hopkins University
John Carroll University
  128 ## 3
  129
        ## 4
                         Kenyon College
King's College
La Salle University
  130 ## 5
                                                           88
        ## 6
## 7
  131
  132
  133
         ## 8 Illinois Wesleyan University
                                                           83
                              Juniata College
  134
                                                           80
  135
  136
  137
        ## [your code here]
  138
  ##1). First select X, Grad.Rate columns from df
140 ##2). Then filter X where the Grad.Rate >= 80
141 ##3). Arrange the data frame in descending order of graduation rate
        arrange(filter(select(df, X, Grad.Rate), Grad.Rate >= 80), desc(Grad.Rate))
  143
144
  145 ## (4) "extract distinct (unique) rows"
  146 select(df, S.F.Ratio)
  148 distinct(select(df, S.F.Ratio))
 145:1 (Untitled) $
                                                                                                                                              R Script $
Console Terminal × Jobs ×
R 4.1.1 · ~/DSE Fall 2021/W1L1/RLab6105/programs/
6 King's College
7 La Salle University
8 Illinois Wesleyan University
                                               84
                                               83
                  Júniata Collegé
                                               80
James Madison University
                                               98
         Incarnate Word College
       Johns Hopkins University
John Carroll University
                                               90
                                               89
                   Kenyon College
                                               88
                   King's College
                                               87
7 La Salle University
8 Illinois Wesleyan University
                                               84
                                               83
                  Juniata College
```

Q2)

- Group by Private on 'df' data frame to obtain dfx
- Then summarize the dfx using max and min function on Outstate
- For the next one, same method as above but instead we use the 'college' data frame

```
Run 🕪 🕞 Source 🗸 🗏
  199
  200
  201
      ## [your code here]
  202
  203 ## Group by Private on 'df' data frame
  205 dfx <- group_by(df, Private)
  206
  ## then summarize the dfx using max and min function on Outstate 208 dfx <- summarise(dfx, max = max(Outstate), min=min(Outstate))
  209 dfx
  210
  211 ## Same method as above but instead we use the 'college' data frame 212
  213 dfy <- group_by(college, Private)
       dfy <- summarise(dfy, max = max(Outstate), min=min(Outstate))
dfy</pre>
  214
215
  216
  217
  218
 210 - ##
219:1 (Untitled) $
                                                                                                                   R Script 💠
 Console Terminal × Jobs ×
 R 4.1.1 · ~/DSE Fall 2021/W1L1/RLab6105/programs/ 🗇
1 No 15732 2580
2 Yes 21700 2340
> dfx <- group_by(df, Private)
> ## then summarize the dfx using max and min function on Outstate
> dfx <- summarise(dfx, max = max(Outstate), min=min(Outstate))
1 No
2 Yes
>
```