Likert Data Assignment Using the RSE data at

https://openpsychometrics.org/_rawdata/,

2/15/2014 Rosenberg Self-Esteem Scale data,

Summarize the overall results for each question (Q1-Q10), and separately for each gender (M,F). For which questions does there appear to be a significant difference in responses based on gender?

Preparing before answer the questions.

Split Columns first.

Change number to answers so I can understand the answers better.

```
#Change numbers to answers

df of contents of the contents of
```

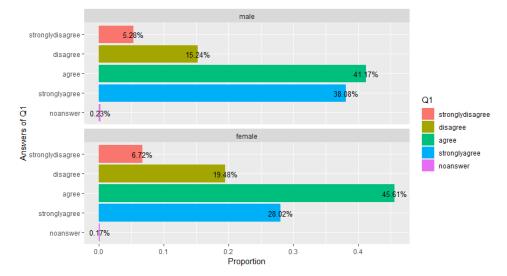
Note for Analyze the following questions

I did not count no-answer as a sufficient answer, but I compared the number of people who choose to give answer for different questions. Codes are similar for each question, in order to save pages count for the pdf file, I will only paste codes for Question 1 here, you can find all my codes in R file.

1. For Question 1

Above output shows the most people agree with Q1 which is "I feel that I am a person of worth, at least on an equal plane with others.", the least people choose strongly disagree and 98 people did not answer this question.

```
head(Q1gender)
                                                               gender Q1
Q1gender <- Q1gender %>%
 group_by(gender)
count(Q1) %>%
                                                                                           1961 0.0672
                                                               female stronglydisagree
                                                                                                          6.72%
 mutate(prop = n / sum(n)) %>%
ungroup() %>%
                                                                                           5684 0.195
                                                               female disagree
                                                                                                          19.48%
                                                                                          1\overline{3}310 0.456
                                                                                                          45.61%
 female agree
                                                               female stronglyagree
                                                                                            <u>8</u>177 0.280
                                                             4
                                                                                                          28.02%
Q1gender$Q1 <
                                                               female noanswer
                                                                                              50
                                                                                                 0.00171
                                                                                                          0.17%
                             'agree",
'stronglyagree",
-answer"))
                                                                       stronglydisagree
                                                                                            940 0.0528
                                                                                                          5.28%
                                                               male
                                                             6
                                                                                           2713 0.152
7328 0.412
                                                                                                          15.24%
                                                               male
                                                                       disagree
                                                                                                          41.17%
                                                               male
                                                                       agree
Qlgender$gender <- factor(Qlgender$gender,
levels = c("male",
                                                                                           <u>6</u>779 0.381
                                                                                                          38.08%
                                                             9 male
                                                                       stronglyagree
Q1gender
                                                            10 male
                                                                       noanswer
                                                                                              41 0.00230 0.23%
```

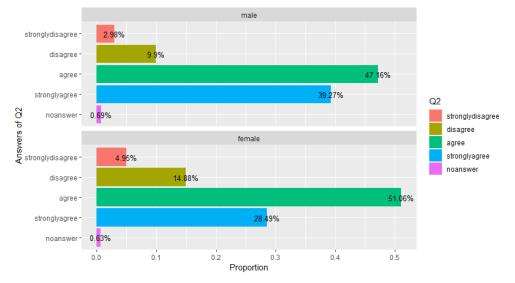


The percentage of male who strongly agree with this question is significantly higher than female.

2. For Question 2

Above output shows the most people agree with Q2 which is "I feel that I have a number of good qualities.", the least people choose strongly disagree and 316 people did not answer this question. The number of people who did not give answer in question 2 is clearly bigger than question 1.

```
gender Q2
                                         prop prop_perc
                                        <db1>
   <fct>
                                               51.06%
  female agree
                              14899 0.511
  female disagree
                               <u>4</u>341
                                     0.149
                                               14.88%
                                183 0.006<u>27</u>
  female noanswer
                                              0.63%
  female stronglyagree
                               <u>8</u>315
                                     0.285
                                               28.49%
                               1444
  female stronglydisagree
                                     0.0495
                                              4.95%
                               <u>8</u>395
                                     0.472
  male
          agree
  male
                                     0.0990
                                              9.9%
          disagree
                                1762
  male
                                     0.00691
          noanswer
9
                               <u>6</u>991 0.393
  male
          stronglyagree
                                               39.27%
          stronglydisagree
                                     0.0298
```



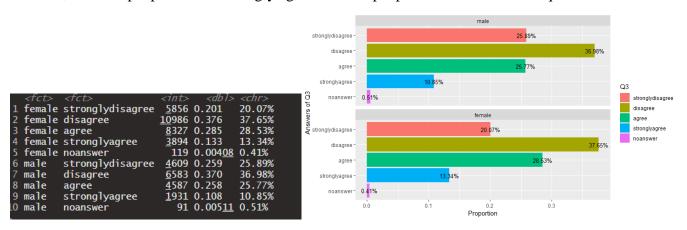
The percentage of male who strongly agree with this question is significantly higher than female.

Female give more negative answer for question 2.

3. For Question 3



Above output shows the most people disagree with Q3 which is "All in all, I am inclined to feel that I am a failure.", the least people choose strongly agree and 223 people did not answer this question.



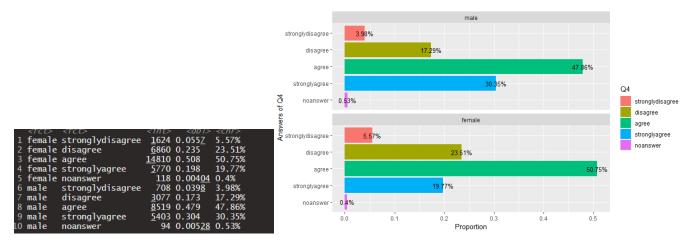
There's not significant difference by different gender based on above output and figure.

Female give more positive answer for question 3.

4. For Question 4

stronglydisagree	disagree	agree	stronglyagree	noanswer
2434	10213	23723	11381	223
. 1				

Above output shows the most people agree with Q4 which is "I am able to do things as well as most other people.", the least people choose strongly disagree and 223 people did not answer this question.

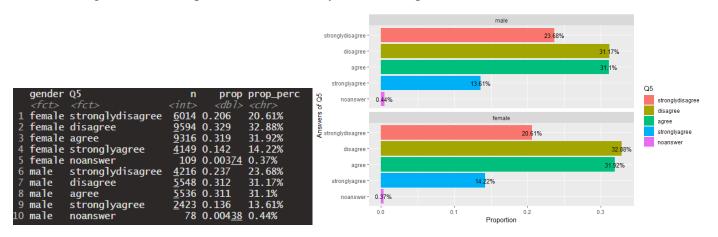


The percentage of male who strongly agree with this question is significantly higher than female.

5. For Question 5

stronglydisagree disagree agree stronglyagree noanswer 10389 15402 15221 6769 193	
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Above output shows the most people disagree with Q5 which is "I feel I do not have much to be proud of.", the least people choose strongly agree and 193 people did not answer this question. The number of people who did not give answer in question 5 is relatively lower than question 3&4.

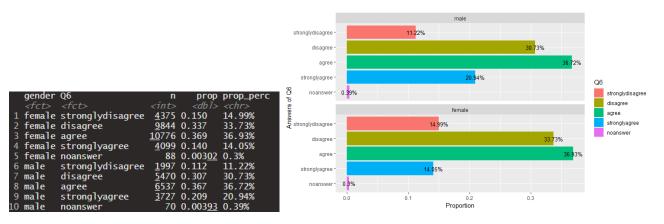


There's not significant difference by different gender based on above output and figure.

6. For Question 6

stronglydisagree	disagree	agree	stronglyagree	noanswer
6555	15686	17595	7973	165
1				

Above output shows the most people disagree with Q6 which is "I take a positive attitude toward myself.", the least people choose strongly disagree and 165 people did not answer this question.

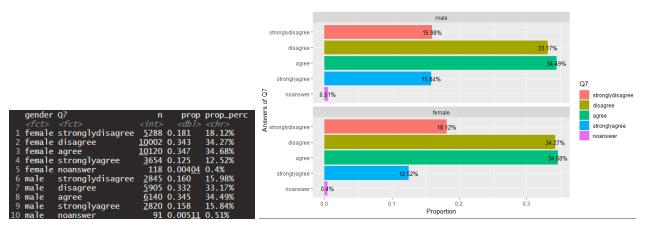


The percentage of male who strongly agree with this question is significantly higher than female.

7. For Question 7

stronglydisagree	disagree	agree	stronglyagree	noanswer
8376	16284	16509	6589	216

Above output shows the most people agree with Q7 which is "On the whole, I am satisfied with myself.", the least people choose strongly agree and 216 people did not answer this question.

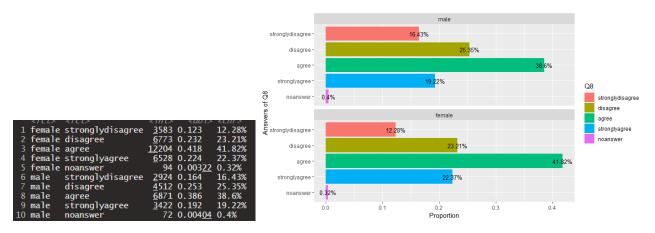


There's not significant difference by different gender based on above output and figure.

8. For Question 8



Above output shows the most people agree with Q8 which is "I wish I could have more respect for myself.", the least people choose strongly disagree and 177 people did not answer this question.



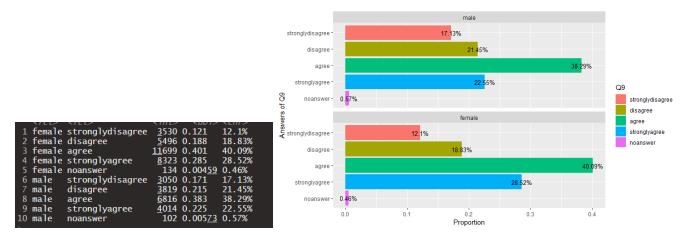
Female give more positive answer for question 8.

There's not significant difference by different gender based on above output and figure.

9. For Question 9

stronglydisagree	disagree	agree	stronglyagree	noanswer
6691	9469	18855	12713	246

Above output shows the most people agree with Q9 which is "I certainly feel useless at times.", the least people choose strongly disagree and 246 people did not answer this question.



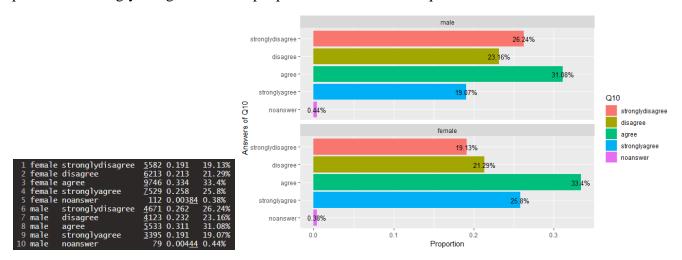
Male give more negative answers for question 9.

There's not significant difference by different gender based on above output and figure.

10. For Question 10

stronglydisagree disagree agree stronglyagree noan	oanswer
10421 10498 15584 11269	202

Above output shows the most people agree with Q10 which is "At times I think I am no good at all.", the least people choose strongly disagree and 202 people did not answer this question.



The percentage of male who strongly disagree with this question is significantly higher than female.

And the percentage of male who strongly agree with this question is significantly lower than female.