Univariate Bar Graphs for Survey Questions

#Note: All bar graphs will be presented with the R code first, followed by a .png of the raw graph generated by the code, and any commentary on the raw bar graph

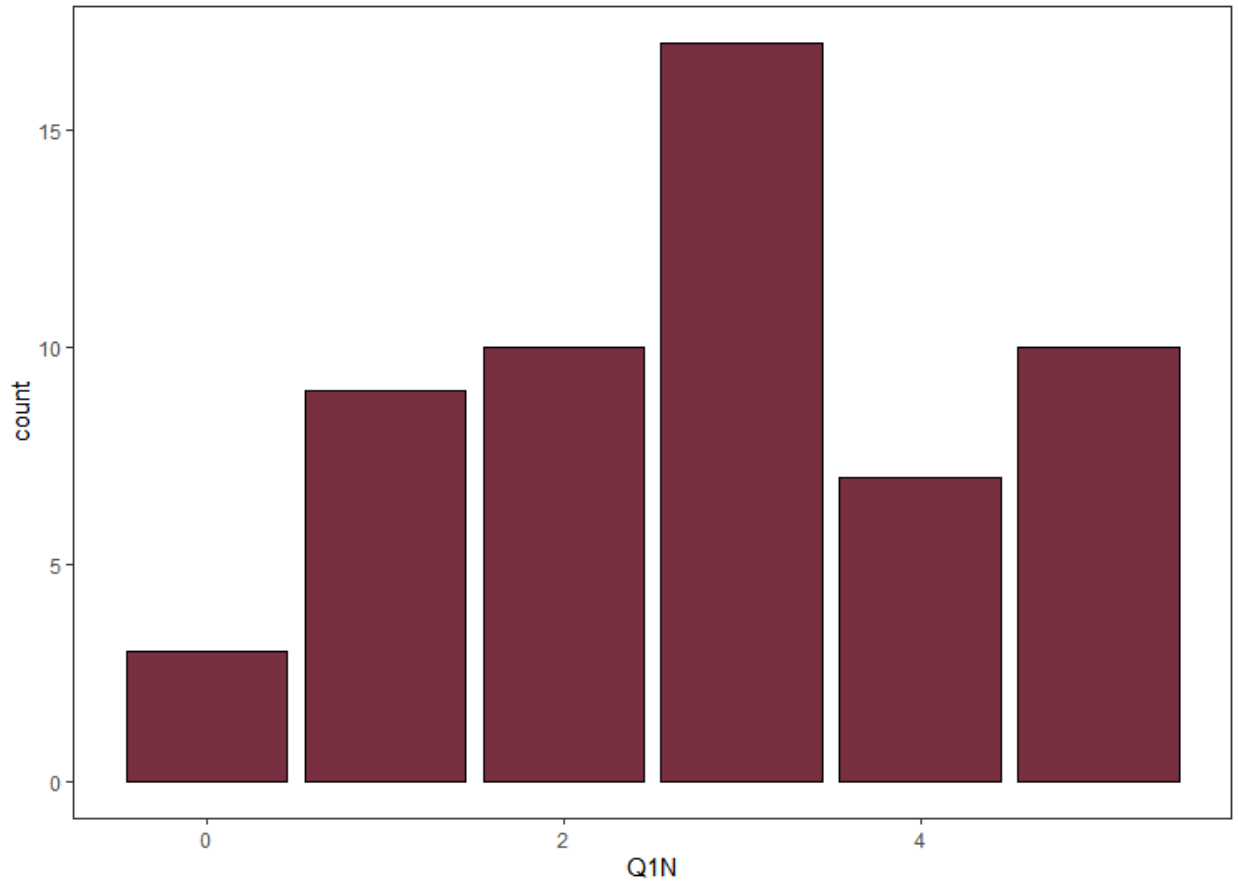
#Note 2: All bar graphs were generated with the ggplot2 library

```
>library(ggplot2)
```

#Question 1

#"What is your current academic standing?"

```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q1N))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())
```

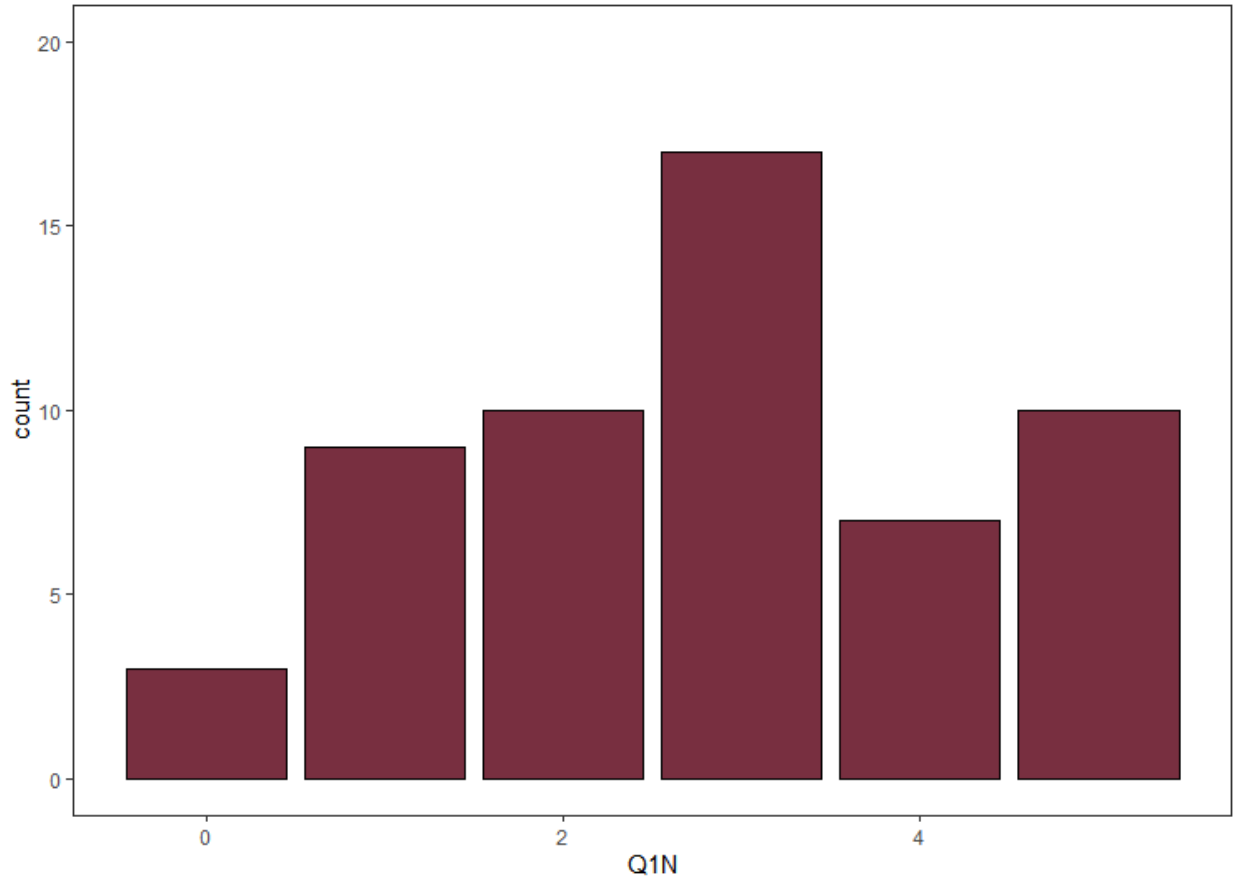


#Without the labeling in the above graph, we can see that the majority of the responses were from Juniors, and a fair amount of responses exist with the other groups as well, with a small handful of “other” responses.

#Note; in the above graph, 0 = Other, 1 = First-year, 2 = Second-year, 3 = Third-year, 4 = Fourth-year, and 5 = Fifth-years+ (and graduate students)

#Question 1 with rescaling

> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q1N))+geom_bar(stat="count", fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major = element_blank(),panel.grid.minor = element_blank())+ylim(0,20)

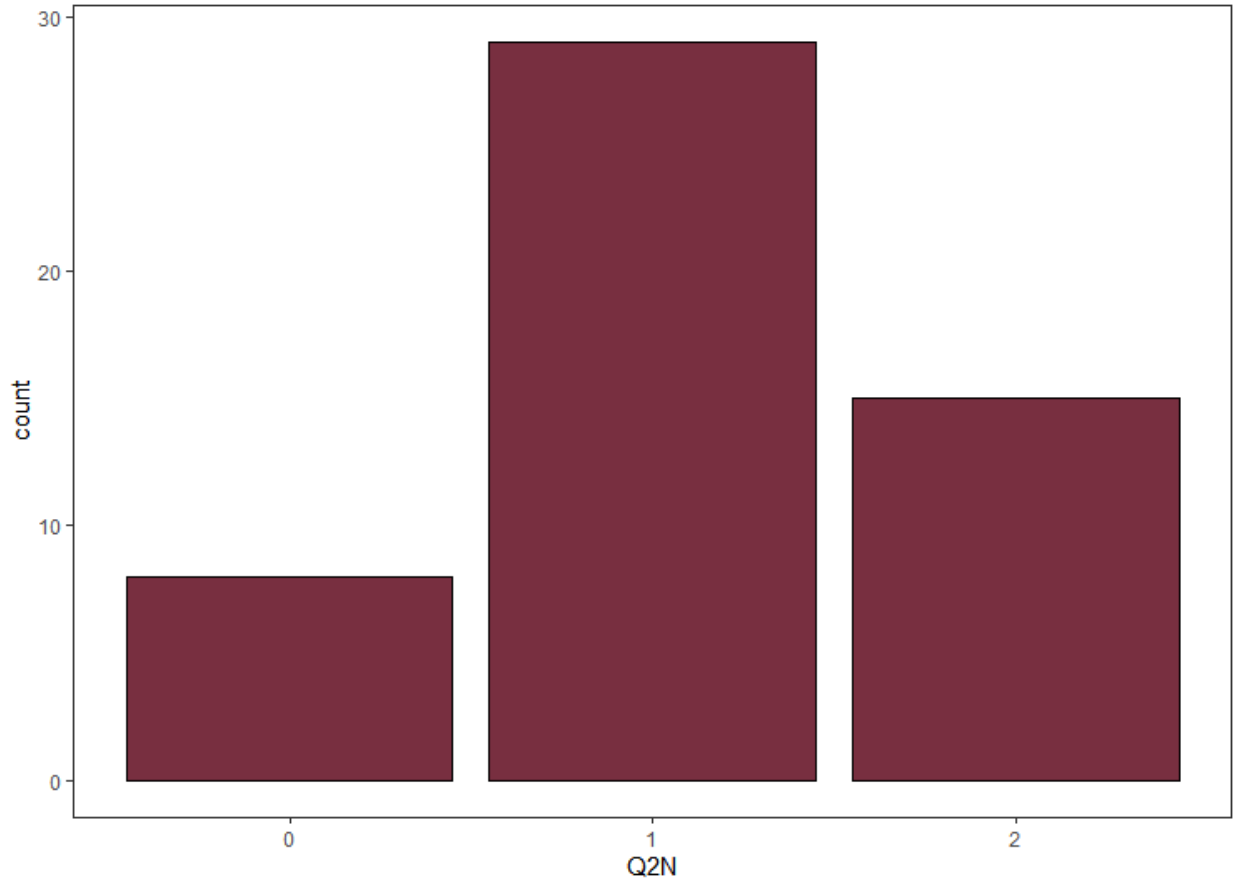


#Question 2

#"What is your major?"

```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q2NV1))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())
```

```
Warning message:
Removed 4 rows containing non-finite values
(stat_count).
```

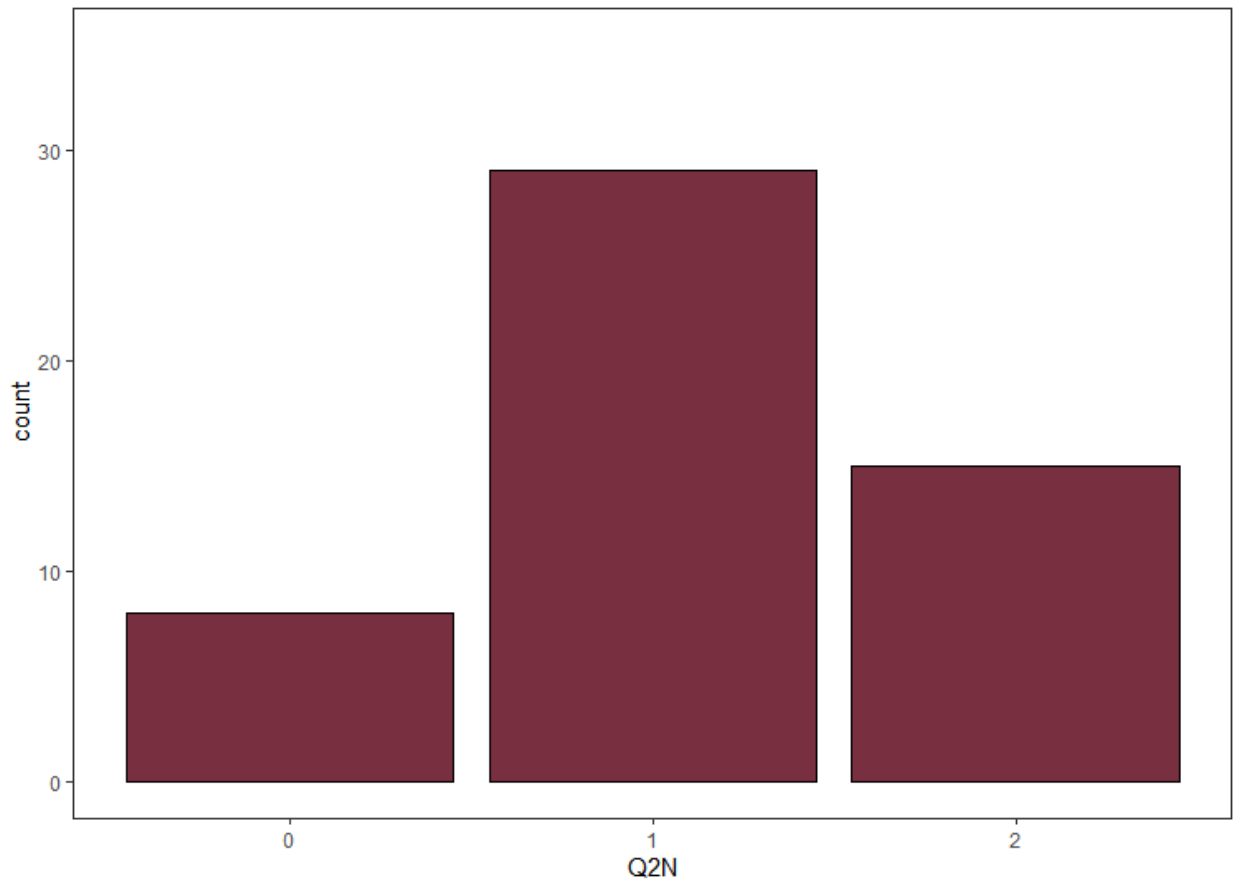


#The majority of our respondents fall within Social Sciences or Business-related majors. This graph warranted revisiting our categories for future analysis.

#Note; in the above graph, 0 = Arts and Humanities, 1 = Social Sciences (and business), and 2 = STEM

#Question 2 with rescaling

```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q2NV1))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())+ylim(0,35)
Warning message:
Removed 4 rows containing non-finite values
(stat_count).
```

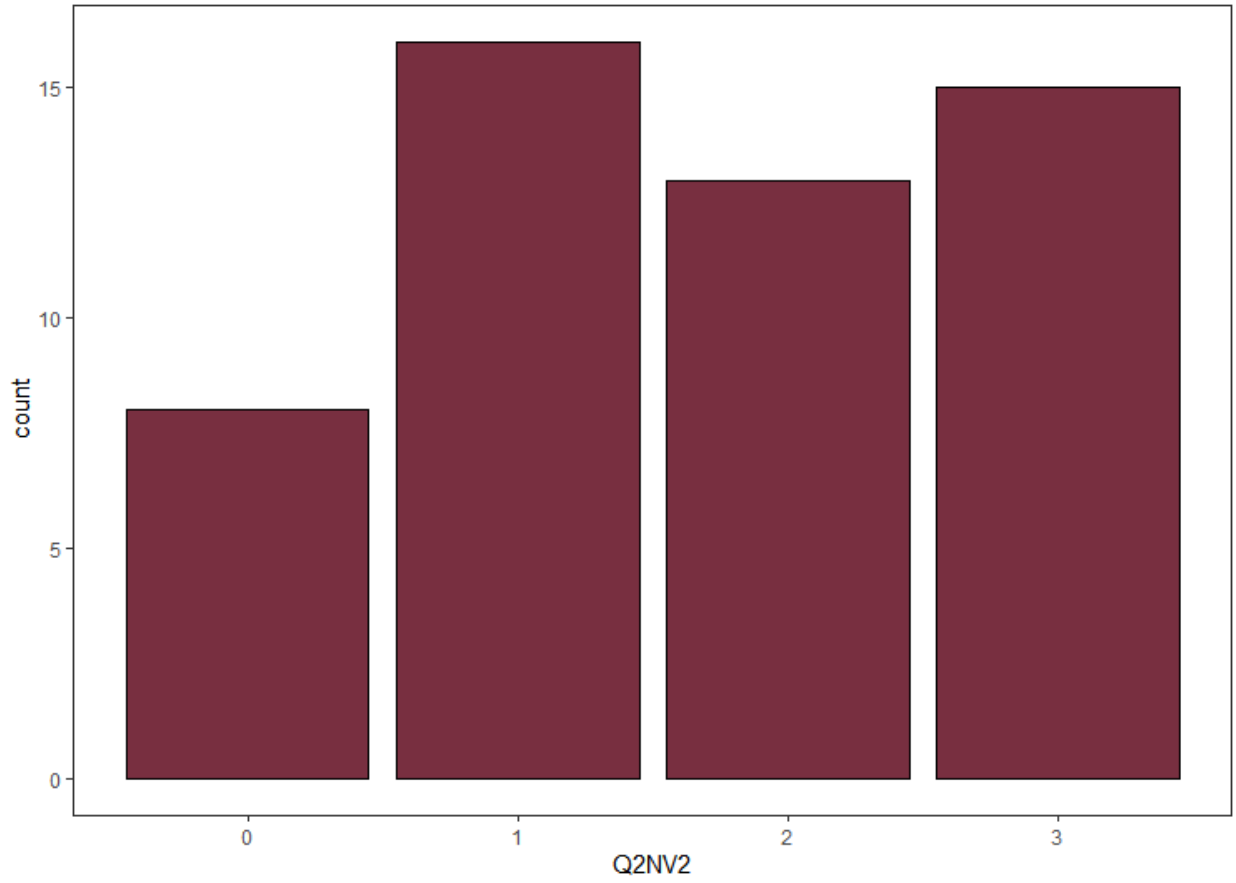


#Note; in the above graph, 0 = Arts and Humanities, 1 = Social Sciences (and business), and 2 = STEM

#Question 2 version 2 raw

```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q2NV2))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())
```

```
Warning message:
Removed 4 rows containing non-finite values
(stat_count).
```

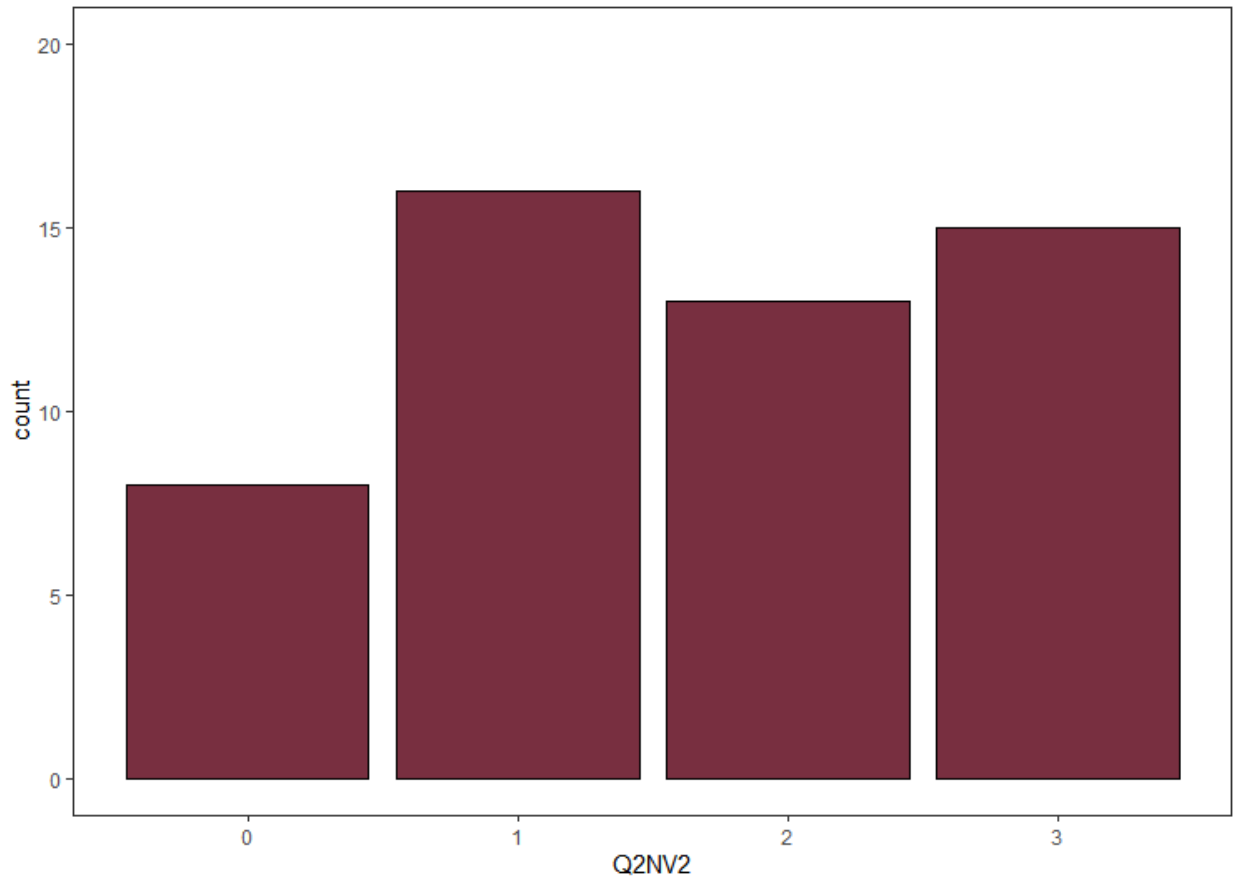


#The distribution of student majors is more even when social sciences and business-related majors are given their own separate categories.

#Note: In the above graph, 0 = Arts and Humanities, 1 = Social Sciences, 2 = Business, 3 = STEM

#Question 2 Version 2 rescaled

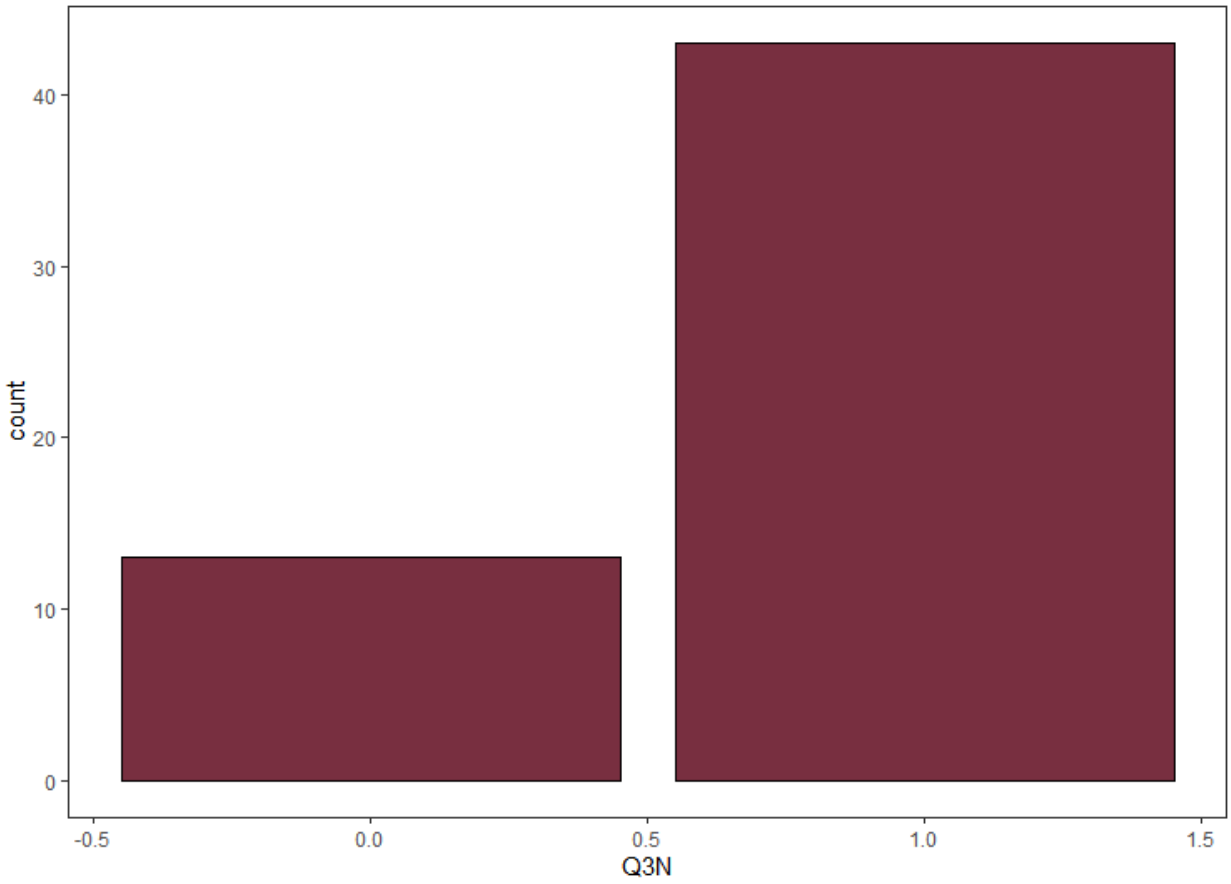
>ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q2NV2))+geom_bar(stat="count", fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major = element_blank(),panel.grid.minor = element_blank()) + ylim(0,20)



#Question 3

#"Which of the following FSU research data services have you *heard of*? Please check all that apply. (Research Data Services are defined as "library resources to help students and faculty manage, find, use, analyze, store, and learn about data".)"

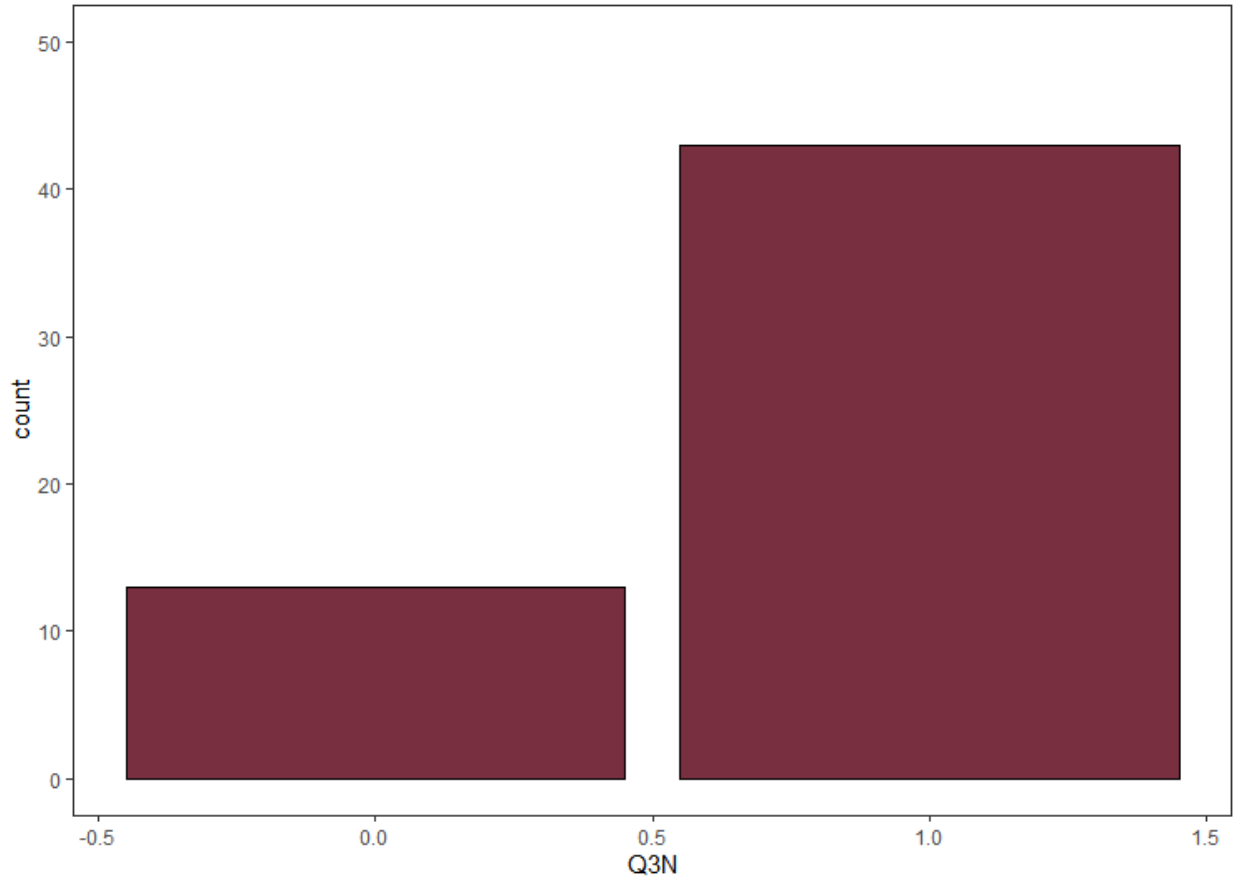
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q3N))+geom_bar(stat="count", fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major = element_blank(),panel.grid.minor = element_blank())



Note: 0 = Had not heard of any research data services, while 1 = have heard of at least one research data service.

#Question 3 with rescaling

```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q3N))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())+ylim(0,50)
```

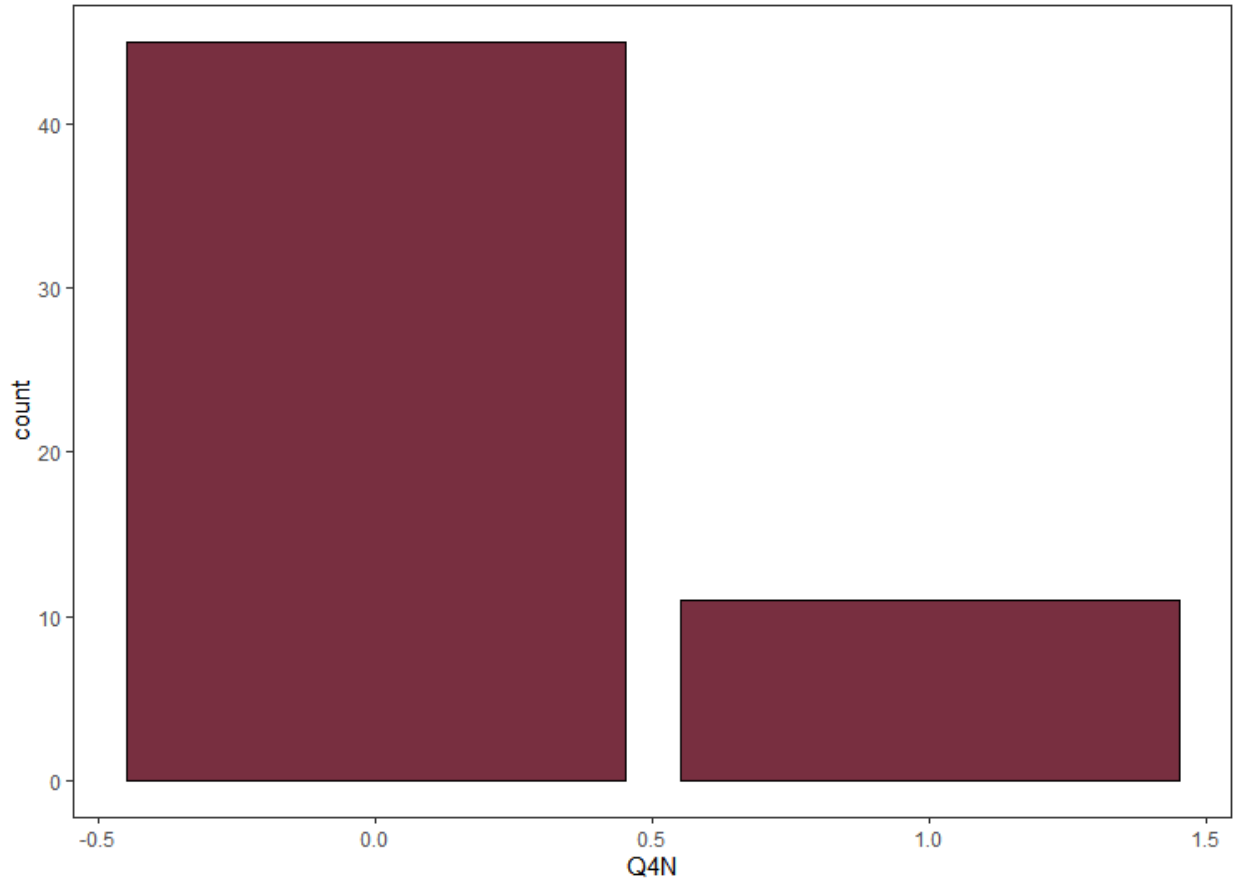


Note: 0 = Had not heard of any research data services, while 1 = have heard of at least one research data service.

#Question 4

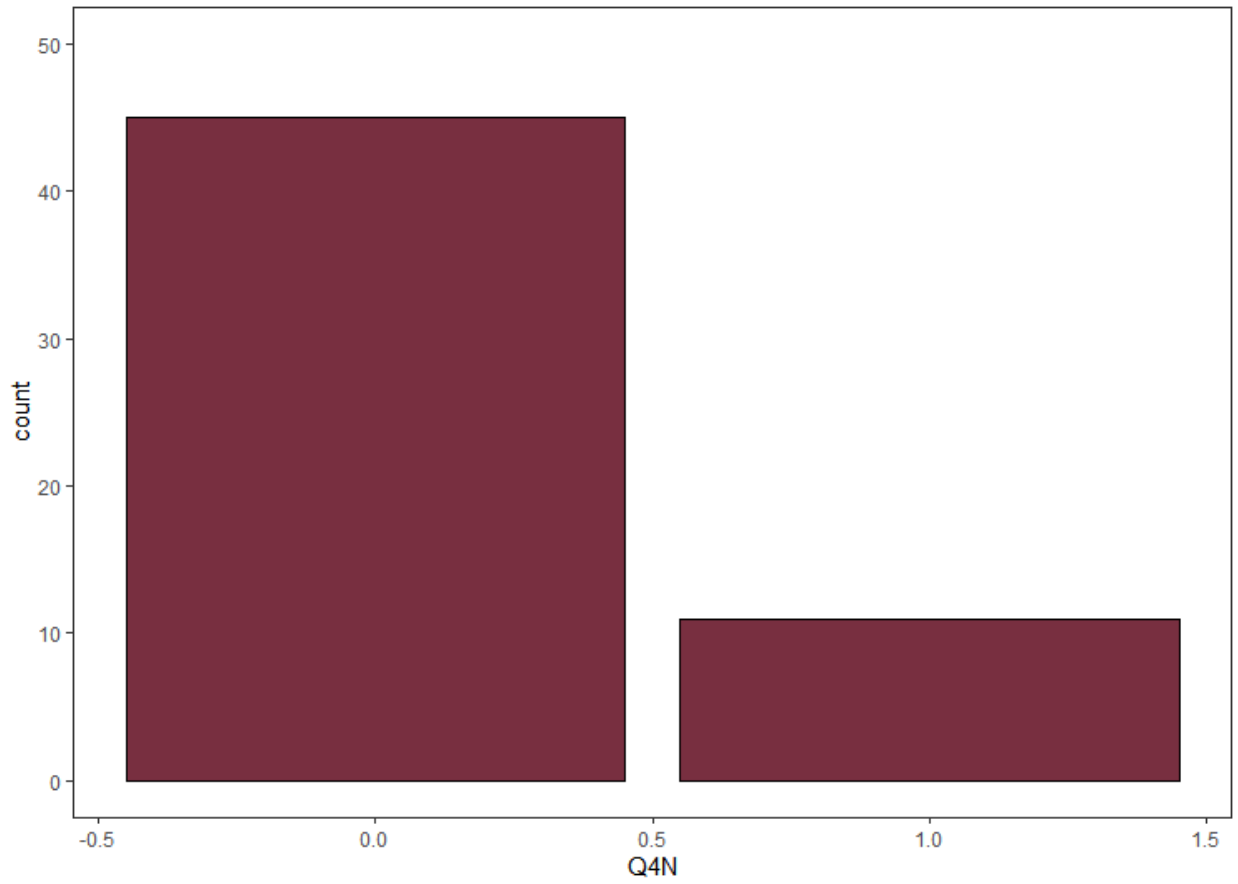
#Have you used any [FSU research data services] this semester?

```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q4N))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())
```



#Question 4 with rescaling

```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q4N))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())+ylim(0,50)
```



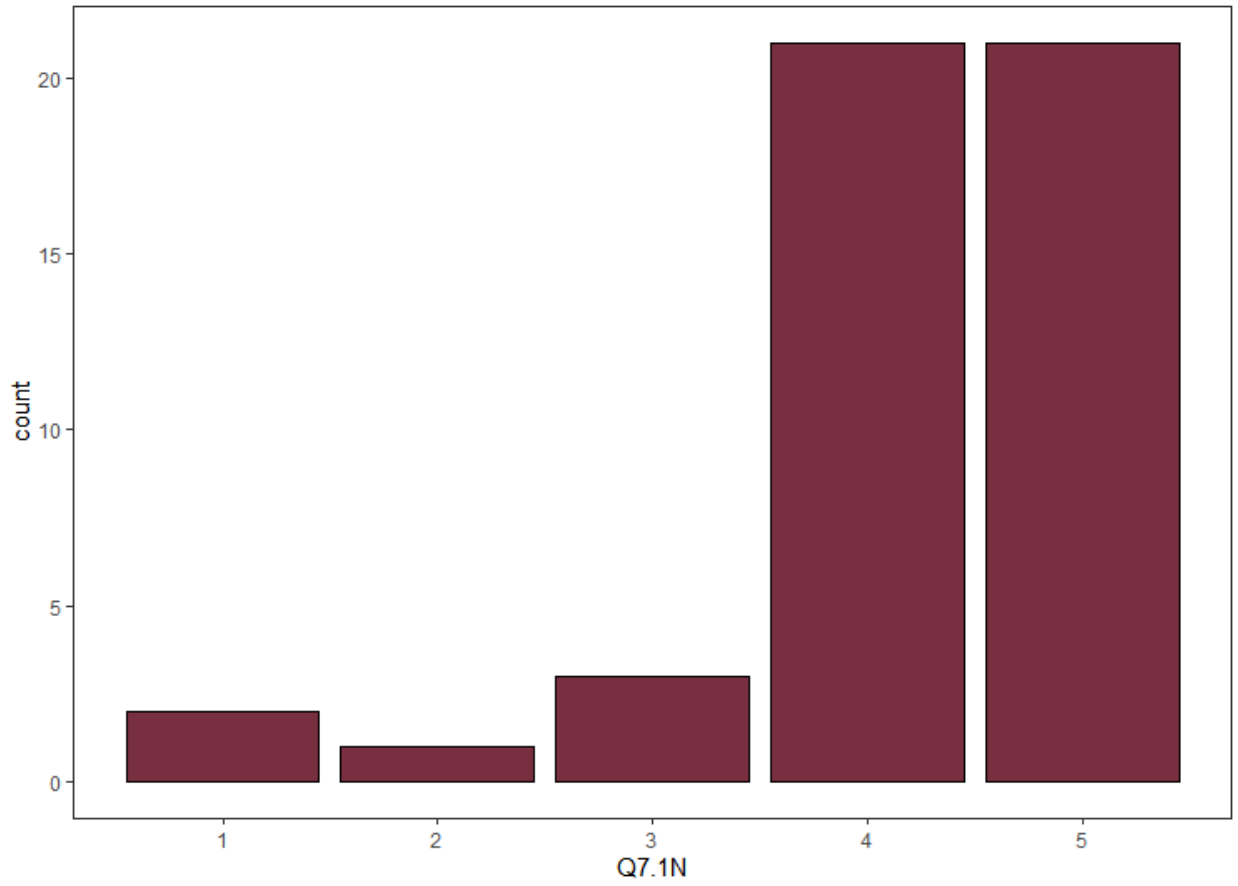
#Question 7

#On a scale of “Strongly Agree” to “Strongly Disagree” how much would you agree with each of the following statements?

#Question 7.1

#“The ability to critically think about and evaluate data (data literacy) is important to my academics and future career.”

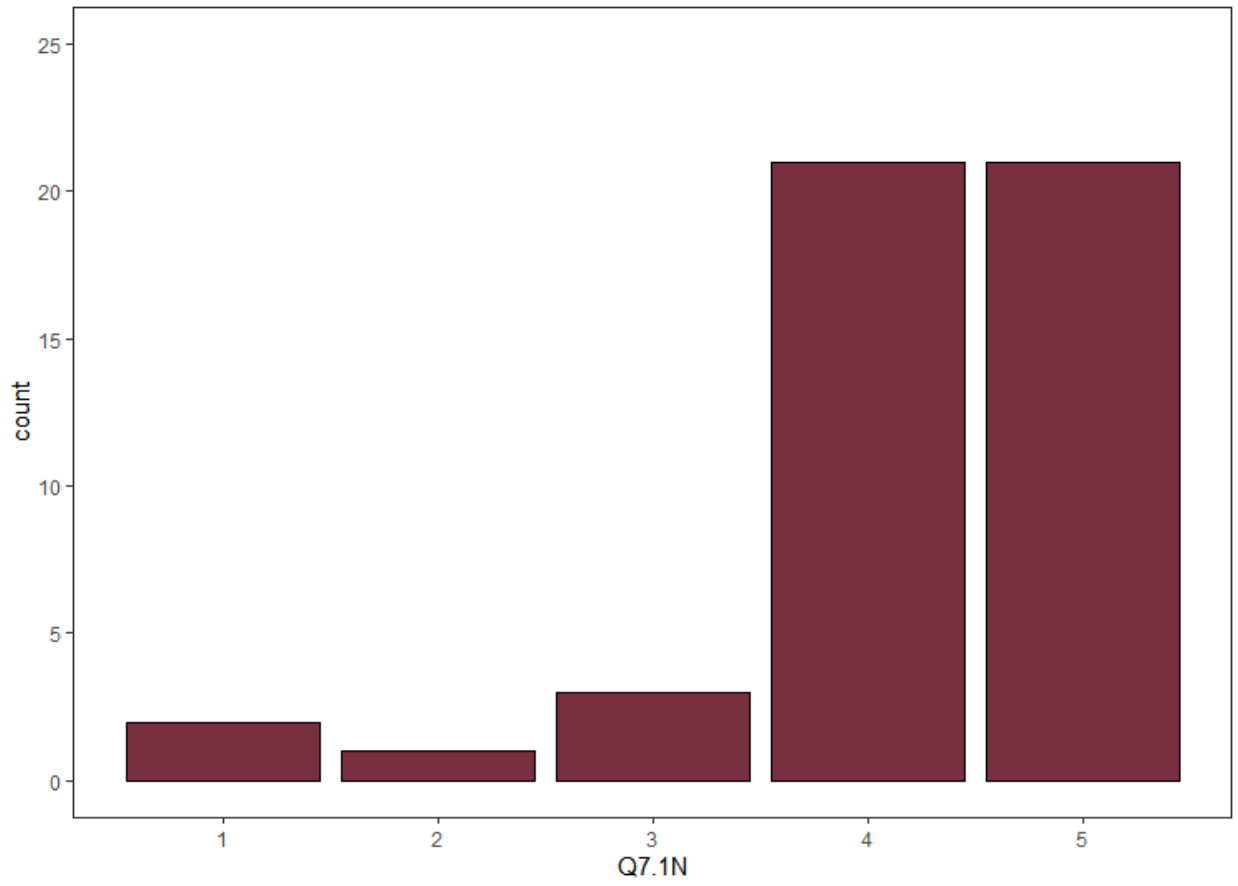
```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q7.1N))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())
Warning message:
Removed 8 rows containing non-finite values
(stat_count).
```



#Note: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, and 5 = Strongly agree

#Question 7.1 with rescaling

```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q7.1N))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())+ylim(0,25)
Warning message:
Removed 8 rows containing non-finite values
(stat_count).
```

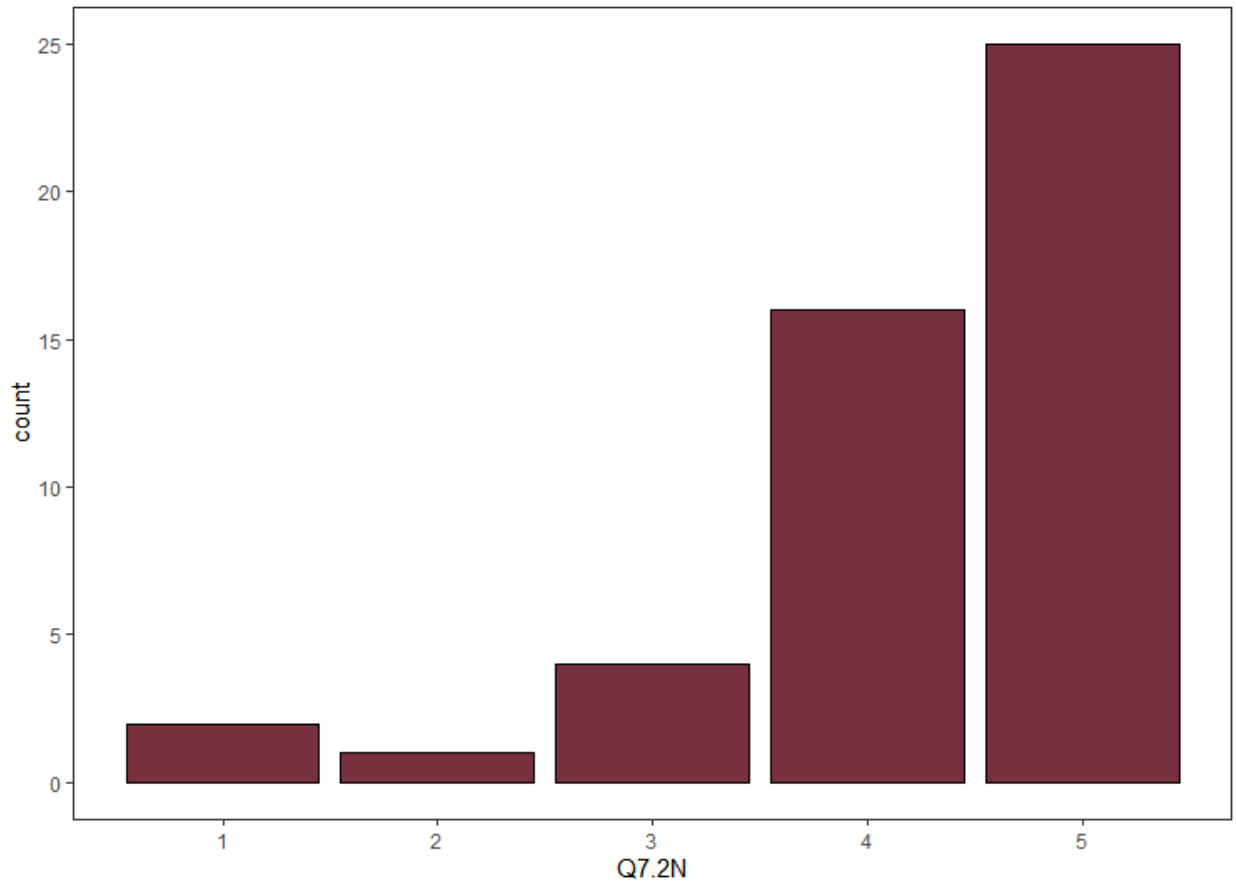


#Note: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, and 5 = Strongly agree

#Question 7.2

#“The ability to analyze data is important to my academics and future career.”

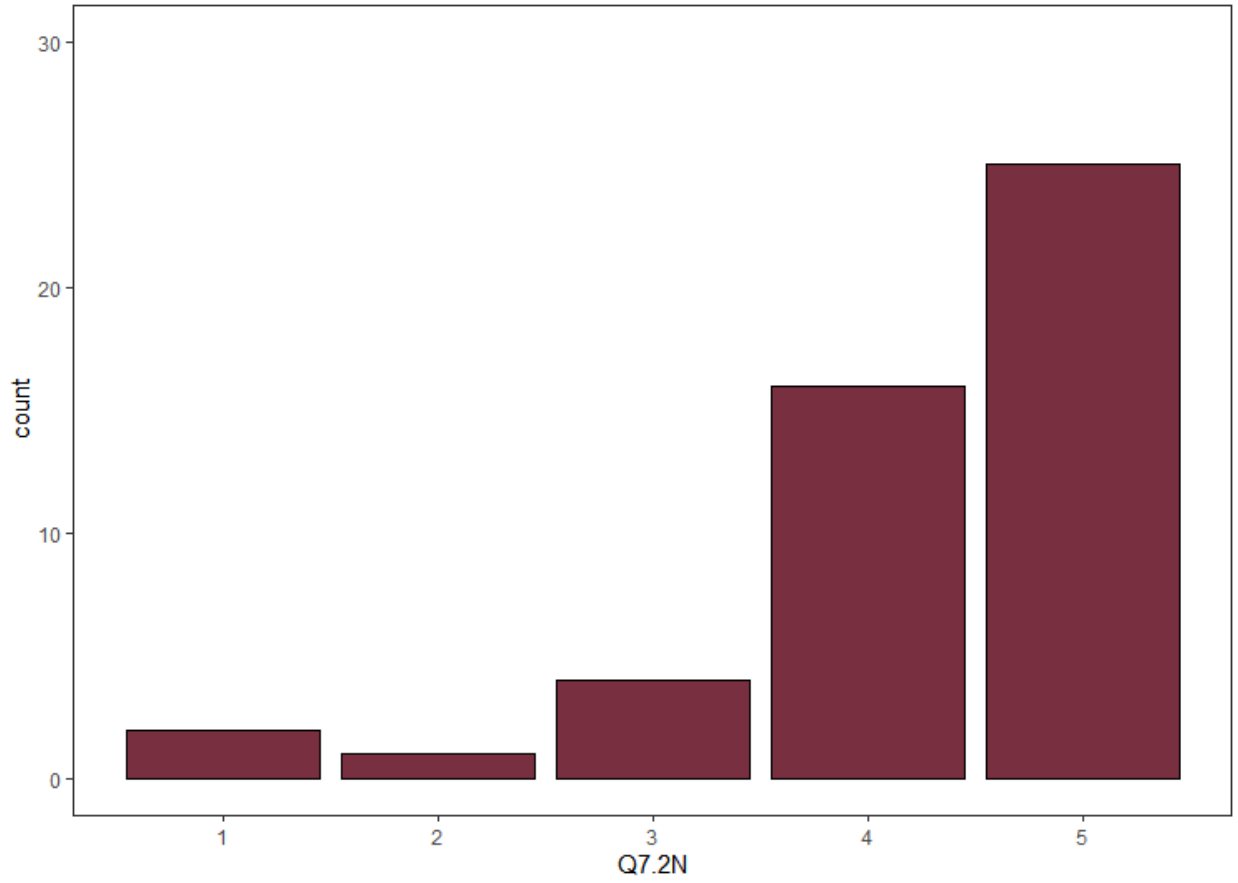
```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q7.2N))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())
Warning message:
Removed 8 rows containing non-finite values
(stat_count).
```



#Note: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, and 5 = Strongly agree

#Question 7.2 with rescaling

```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q7.2N))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())+ylim(0,30)
Warning message:
Removed 8 rows containing non-finite values
(stat_count).
```

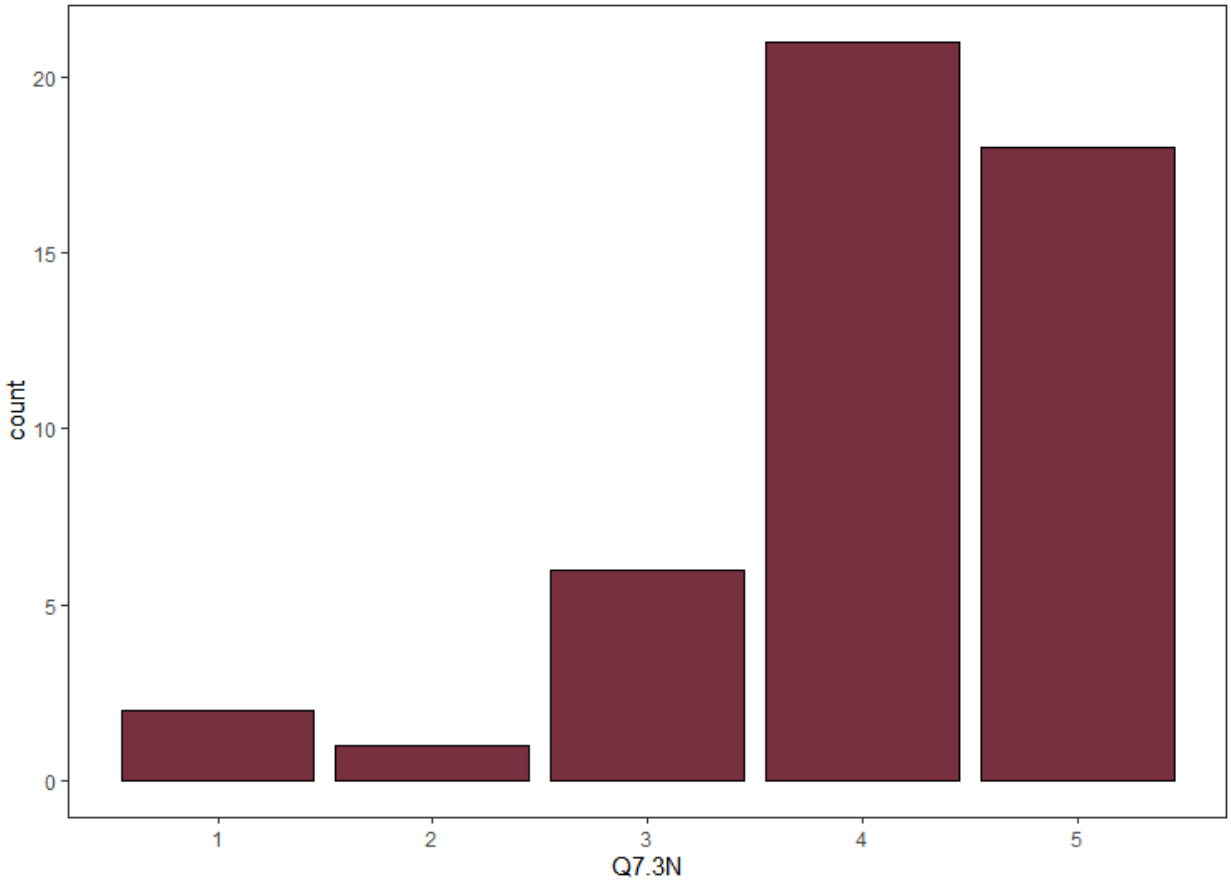


#Note: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, and 5 = Strongly agree

#Question 7.3

#“The ability to visualize data is important to my academics and future career.”

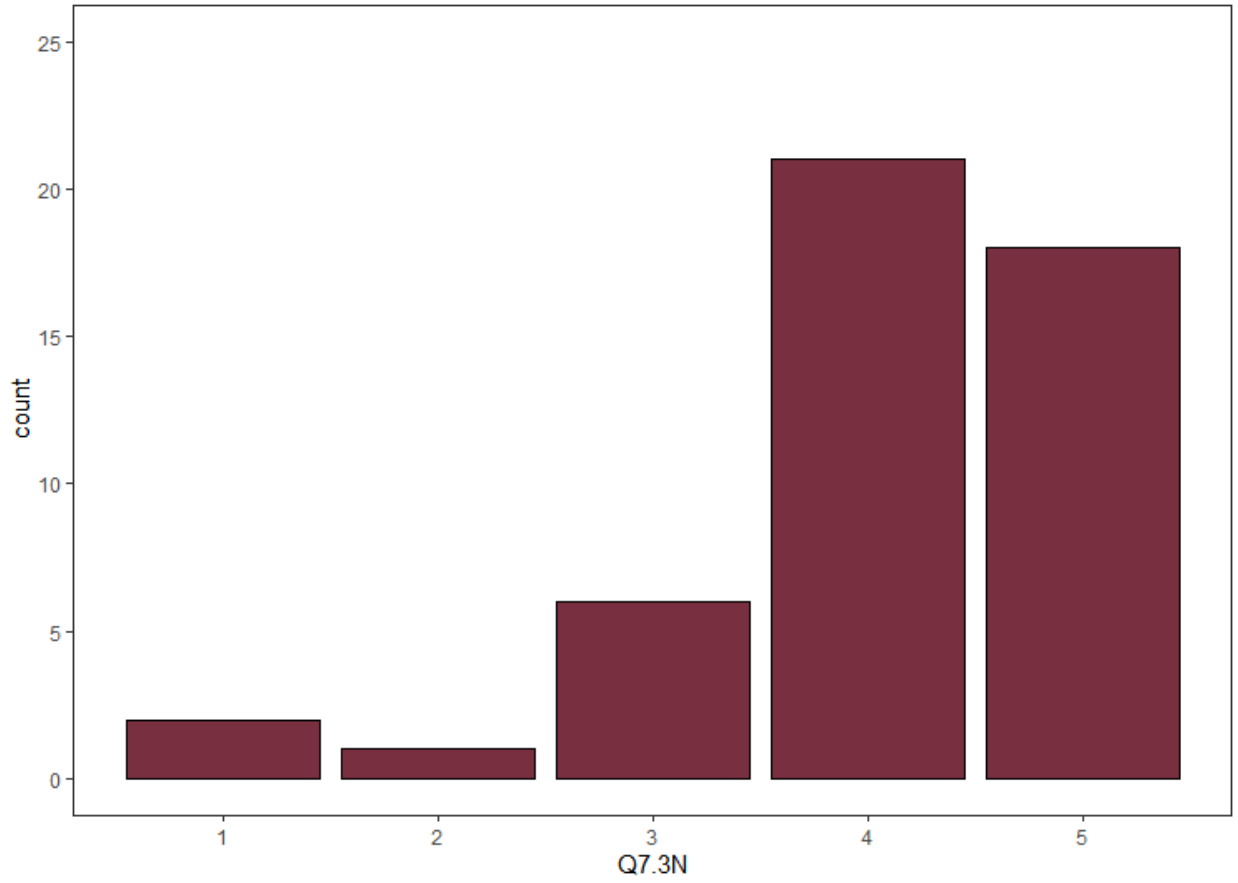
```
> ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q7.3N))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())
Warning message:
Removed 8 rows containing non-finite values
(stat_count).
```



#Note: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, and 5 = Strongly agree

#Question 7.3 with rescaling

```
>ggplot(X2022FSULibSurveyDataFinalVersion, aes(x=Q7.3N))+geom_bar(stat="count",
fill="#782F40", colour="black")+theme_bw()+theme(panel.grid.major =
element_blank(),panel.grid.minor = element_blank())+ylim(0,25)
Warning message:
Removed 8 rows containing non-finite values
(stat_count).
```



#Note: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, and 5 = Strongly agree