Quiz: Exploring the Data

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6. How many lines are there in the businesses file?

```
yelpBusinessRDS <- readRDS('.../yelp_dataset_challenge_academic_dataset/yelp_academic_dataset_business.r.</pre>
dim(yelpBusinessRDS)
## [1] 61184
               105
About 60 thousand
7. Conditional on having an response for the attribute "Wi-Fi", how many businesses are
reported for having free wi-fi (rounded to the nearest percentage point)?
100 * length(na.omit(yelpBusinessRDS$`attributes.Wi-Fi`[yelpBusinessRDS$`attributes.Wi-Fi` == "free"]))
## [1] 40.91519
40\%
8. How many lines are in the tip file?
yelpTipRDS <- readRDS('.../yelp_dataset_challenge_academic_dataset/yelp_academic_dataset_tip.rds')</pre>
dim(yelpTipRDS)
## [1] 495107
                   6
About 500 thousand
9. In the tips file on the 1,000th line, fill in the blank: "Consistently terrible _____"
yelpTipRDS$text[1000]
## [1] "Consistently terrible service. What's with the attitudes?"
service
10. What is the name of the user with over 10,000 compliment votes of type "funny"?
yelpUserRDS <- readRDS('.../yelp_dataset_challenge_academic_dataset/yelp_academic_dataset_user.rds')</pre>
subset(yelpUserRDS, compliments.funny > 10000)$name
## [1] "Brian"
```

11. Create a 2 by 2 cross tabulation table of when a user has more than 1 fans to if the user has more than 1 compliment of type "funny". Treat missing values as 0 (fans or votes of that type). Pass the 2 by 2 table to fisher.test in R. What is the P-value for the test of independence?

```
##
## Fisher's Exact Test for Count Data
##
## data: cross.table
## p-value < 2.2e-16
## alternative hypothesis: true odds ratio is not equal to 1
## 95 percent confidence interval:
## 0.5185328 0.5344792
## sample estimates:
## odds ratio
## 0.5264532</pre>
```

less than .001