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title: "schhabr1" author: "sharon" date: "2024-02-02" output: pdf\_document: default word\_document: default

```
a<- read.csv("new_york_listings_2024.csv")
```

```
summary(a)
```

```
##           id           name           host_id           host_name
## Min.      :2.595e+03   Length:20758   Min.       :    1678   Length:20758
## 1st Qu.:2.709e+07     Class :character   1st Qu.: 20417384     Class :character
## Median :4.993e+07     Mode  :character   Median :108727121    Mode  :character
## Mean      :3.034e+17
## 3rd Qu.:7.216e+17
## Max.      :1.054e+18
## neighbourhood_group neighbourhood      latitude      longitude
## Length:20758      Length:20758      Min.      :40.50   Min.      :-74.25
## Class :character   Class :character   1st Qu.:40.68     1st Qu.: -73.98
## Mode  :character   Mode  :character   Median :40.72     Median : -73.95
##                                     Mean      :40.73     Mean      :-73.94
##                                     3rd Qu.:40.76     3rd Qu.: -73.92
##                                     Max.      :40.91     Max.      :-73.71
## room_type          price          minimum_nights  number_of_reviews
## Length:20758      Min.      :    10.0   Min.      :    1.00   Min.      :    1.00
## Class :character   1st Qu.:    80.0     1st Qu.:   30.00     1st Qu.:    4.00
## Mode  :character   Median :   125.0     Median :   30.00     Median :   14.00
##                                     Mean      :   187.8   Mean      :   28.56   Mean      :   42.64
##                                     3rd Qu.:   199.0     3rd Qu.:   30.00     3rd Qu.:   49.00
##                                     Max.      :100000.0   Max.      :1250.00   Max.      :1865.00
## last_review        reviews_per_month calculated_host_listings_count
## Length:20758      Min.      : 0.010     Min.      :    1.00
## Class :character   1st Qu.: 0.210     1st Qu.:    1.00
## Mode  :character   Median : 0.650     Median :    2.00
##                                     Mean      : 1.258     Mean      :   18.84
##                                     3rd Qu.: 1.800     3rd Qu.:    5.00
##                                     Max.      :75.490     Max.      :713.00
## availability_365    number_of_reviews_ltm  license          rating
## Min.      :    0     Min.      :    0.00   Length:20758      Length:20758
## 1st Qu.:   87     1st Qu.:    1.00   Class :character   Class :character
## Median :  215     Median :    3.00   Mode  :character   Mode  :character
## Mean      :  206     Mean      :  10.85
## 3rd Qu.:  353     3rd Qu.:   15.00
## Max.      :  365     Max.      :1075.00
## bedrooms           beds           baths
## Length:20758      Min.      : 1.000     Length:20758
## Class :character   1st Qu.: 1.000     Class :character
## Mode  :character   Median : 1.000     Mode  :character
##                                     Mean      : 1.724
##                                     3rd Qu.: 2.000
##                                     Max.      :42.000
```

```
#Transforming Bedroom variable as factors
```

```
a$bedrooms <-as.factor(a$bedrooms)
```

```
library(ggplot2)  
library(esquisse)
```

```
#esquisser()  
  
library(ggplot2)  
  
ggplot(a) +  
  aes(x = minimum_nights, y = price) +  
  geom_area() +  
  theme_minimal()
```

