

# assignment\_2\_Ramzi

Ramzi Chariag

2023-01-26

```
#summary(calendar)
summary(listings)
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```
##          id          listing_url      scrape_id      last_scraped
##  Min.   :5.396e+03  Length:55104      Min.   :2.022e+13  Length:55104
##  1st Qu.:1.487e+07  Class :character  1st Qu.:2.022e+13  Class :character
##  Median :3.493e+07  Mode  :character  Median :2.022e+13  Mode  :character
##  Mean   :1.598e+17                      Mean   :2.022e+13
##  3rd Qu.:5.360e+07                      3rd Qu.:2.022e+13
##  Max.   :7.782e+17                      Max.   :2.022e+13
##
##          source          name          description      neighborhood_overview
##  Length:55104          Length:55104      Length:55104      Length:55104
##  Class :character      Class :character  Class :character  Class :character
##  Mode  :character      Mode  :character  Mode  :character  Mode  :character
##
##
##
##  picture_url          host_id          host_url          host_name
##  Length:55104          Min.   :      275      Length:55104      Length:55104
##  Class :character      1st Qu.: 14965994      Class :character  Class :character
##  Mode  :character      Median : 47530710      Mode  :character  Mode  :character
##                      Mean   :123641991
##                      3rd Qu.:197724296
##                      Max.   :490814878
##
##  host_since          host_location      host_about          host_response_time
##  Length:55104          Length:55104      Length:55104      Length:55104
##  Class :character      Class :character  Class :character  Class :character
##  Mode  :character      Mode  :character  Mode  :character  Mode  :character
##
##
##
##  host_response_rate  host_acceptance_rate  host_is_superhost  host_thumbnail_url
##  Length:55104          Length:55104          Length:55104      Length:55104
##  Class :character      Class :character      Class :character  Class :character
##  Mode  :character      Mode  :character      Mode  :character  Mode  :character
##
##
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## host_picture_url      host_neighbourhood host_listings_count
## Length:55104          Length:55104      Min.   : 1.00
## Class :character      Class :character  1st Qu.: 1.00
## Mode  :character      Mode  :character  Median : 1.00
##                                     Mean  : 18.26
##                                     3rd Qu.: 3.00
##                                     Max.   :1852.00
##                                     NA's   :21
## host_total_listings_count host_verifications host_has_profile_pic
## Min.   : 1.00          Length:55104      Length:55104
## 1st Qu.: 1.00          Class :character  Class :character
## Median : 2.00          Mode  :character  Mode  :character
## Mean   : 28.85
## 3rd Qu.: 4.00
## Max.   :2873.00
## NA's   :21
## host_identity_verified neighbourhood      neighbourhood_cleansed
## Length:55104          Length:55104      Length:55104
## Class :character      Class :character  Class :character
## Mode  :character      Mode  :character  Mode  :character
##
##
##
## neighbourhood_group_cleansed latitude      longitude
## Mode:logical          Min.   :48.82   Min.   :2.228
## NA's:55104            1st Qu.:48.85   1st Qu.:2.324
##                      Median :48.87   Median :2.348
##                      Mean   :48.86   Mean   :2.345
##                      3rd Qu.:48.88   3rd Qu.:2.369
##                      Max.   :48.90   Max.   :2.467
##
## property_type          room_type          accommodates      bathrooms
## Length:55104          Length:55104      Min.   : 0.000   Mode:logical
## Class :character      Class :character  1st Qu.: 2.000   NA's:55104
## Mode  :character      Mode  :character  Median : 2.000
##                                     Mean   : 3.045
##                                     3rd Qu.: 4.000
##                                     Max.   :16.000
##
## bathrooms_text        bedrooms          beds          amenities
## Length:55104          Min.   : 1.000   Min.   : 1.000   Length:55104
## Class :character      1st Qu.: 1.000   1st Qu.: 1.000   Class :character
## Mode  :character      Median : 1.000   Median : 1.000   Mode  :character
##                      Mean   : 1.365   Mean   : 1.713
##                      3rd Qu.: 2.000   3rd Qu.: 2.000
##                      Max.   :50.000   Max.   :90.000
##                      NA's   :9016    NA's   :769
## price                 minimum_nights    maximum_nights    minimum_minimum_nights
## Length:55104          Min.   : 1.00   Min.   : 1     Min.   : 1.00
## Class :character      1st Qu.: 2.00   1st Qu.: 90     1st Qu.: 2.00
## Mode  :character      Median : 3.00   Median : 1125    Median : 3.00
##                      Mean   : 84.83   Mean   : 865     Mean   : 84.08
##                      3rd Qu.: 30.00   3rd Qu.: 1125    3rd Qu.: 30.00

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##          Max.      :1000.00   Max.      :10000000   Max.      :1000.00
##                                     NA's      :9
## maximum_minimum_nights minimum_maximum_nights maximum_maximum_nights
## Min.      : 1.00          Min.      : 1          Min.      :1.000e+00
## 1st Qu.: 2.00          1st Qu.: 100          1st Qu.:3.650e+02
## Median : 4.00          Median : 1125          Median :1.125e+03
## Mean   : 86.82          Mean   : 908          Mean   :1.179e+05
## 3rd Qu.: 30.00          3rd Qu.: 1125          3rd Qu.:1.125e+03
## Max.    :1000.00          Max.    :10000000          Max.    :2.147e+09
## NA's    :9              NA's    :9              NA's    :9
## minimum_nights_avg_ntm maximum_nights_avg_ntm calendar_updated
## Min.      : 1.0          Min.      :1.000e+00      Mode:logical
## 1st Qu.: 2.0          1st Qu.:2.710e+02      NA's:55104
## Median : 3.1          Median :1.125e+03
## Mean   : 86.3          Mean   :1.176e+05
## 3rd Qu.: 30.0          3rd Qu.:1.125e+03
## Max.    :1000.0          Max.    :2.143e+09
## NA's    :9              NA's    :9
## has_availability availability_30 availability_60 availability_90
## Length:55104      Min.      : 0.000      Min.      : 0.00      Min.      : 0.00
## Class :character  1st Qu.: 0.000      1st Qu.: 0.00      1st Qu.: 0.00
## Mode  :character  Median : 0.000      Median : 2.00      Median : 4.00
##                      Mean   : 6.066      Mean   :14.74      Mean   :24.68
##                      3rd Qu.: 9.000      3rd Qu.:28.00      3rd Qu.:52.00
##                      Max.    :30.000      Max.    :60.00      Max.    :90.00
##
## availability_365 calendar_last_scraped number_of_reviews number_of_reviews_ltm
## Min.      : 0.0      Length:55104      Min.      : 0.0      Min.      : 0.000
## 1st Qu.: 0.0      Class :character  1st Qu.: 1.0      1st Qu.: 0.000
## Median :17.0      Mode  :character  Median : 7.0      Median : 1.000
## Mean   :103.5                      Mean   : 24.4      Mean   : 7.295
## 3rd Qu.:199.0                      3rd Qu.: 24.0      3rd Qu.: 9.000
## Max.    :365.0                      Max.    :2402.0     Max.    :762.000
##
## number_of_reviews_l30d first_review      last_review
## Min.      : 0.0000      Length:55104      Length:55104
## 1st Qu.: 0.0000      Class :character  Class :character
## Median : 0.0000      Mode  :character  Mode  :character
## Mean   : 0.5155
## 3rd Qu.: 0.0000
## Max.    :44.0000
##
## review_scores_rating review_scores_accuracy review_scores_cleanliness
## Min.      :0.000      Min.      :0.00      Min.      :0.000
## 1st Qu.:4.500      1st Qu.:4.67      1st Qu.:4.430
## Median :4.780      Median :4.88      Median :4.740
## Mean   :4.609      Mean   :4.75      Mean   :4.588
## 3rd Qu.:5.000      3rd Qu.:5.00      3rd Qu.:4.950
## Max.    :5.000      Max.    :5.00      Max.    :5.000
## NA's    :10528      NA's    :11061      NA's    :11057
## review_scores_checkin review_scores_communication review_scores_location
## Min.      :0.000      Min.      :0.000      Min.      :0.000
## 1st Qu.:4.750      1st Qu.:4.750      1st Qu.:4.750
## Median :4.920      Median :4.940      Median :4.910

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## Mean :4.787      Mean :4.797      Mean :4.803
## 3rd Qu.:5.000    3rd Qu.:5.000    3rd Qu.:5.000
## Max. :5.000      Max. :5.000      Max. :5.000
## NA's :11070      NA's :11060      NA's :11072
## review_scores_value license      instant_bookable
## Min. :0.000      Length:55104      Length:55104
## 1st Qu.:4.500     Class :character   Class :character
## Median :4.710     Mode  :character   Mode  :character
## Mean :4.598
## 3rd Qu.:4.880
## Max. :5.000
## NA's :11074
## calculated_host_listings_count calculated_host_listings_count_entire_homes
## Min. : 1.00      Min. : 0.00
## 1st Qu.: 1.00      1st Qu.: 1.00
## Median : 1.00      Median : 1.00
## Mean : 12.54      Mean : 11.92
## 3rd Qu.: 2.00      3rd Qu.: 1.00
## Max. :358.00      Max. :358.00
##
## calculated_host_listings_count_private_rooms
## Min. : 0.0000
## 1st Qu.: 0.0000
## Median : 0.0000
## Mean : 0.4461
## 3rd Qu.: 0.0000
## Max. :39.0000
##
## calculated_host_listings_count_shared_rooms reviews_per_month
## Min. : 0.00000      Min. : 0.010
## 1st Qu.: 0.00000      1st Qu.: 0.160
## Median : 0.00000      Median : 0.540
## Mean : 0.01648      Mean : 1.054
## 3rd Qu.: 0.00000      3rd Qu.: 1.410
## Max. :10.00000      Max. :50.220
##                      NA's :10528
```

```
summary(reviews)
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```
## listing_id      id      date      reviewer_id
## Min. :5.396e+03  Min. :4.824e+03  Length:1344661  Min. : 81
## 1st Qu.:6.909e+06  1st Qu.:2.508e+08  Class :character  1st Qu.: 24225882
## Median :1.915e+07  Median :5.571e+08  Mode :character   Median : 69504881
## Mean :3.871e+16  Mean :2.377e+17      Mean :117437538
## 3rd Qu.:3.590e+07  3rd Qu.:5.832e+17      3rd Qu.:173543262
## Max. :7.750e+17  Max. :7.796e+17      Max. :490300043
## reviewer_name      comments
## Length:1344661      Length:1344661
## Class :character     Class :character
## Mode :character      Mode :character
##
##
##
```