



T5 project - Week3

Course End Project: Data Analysis Module

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```
[ ] # import liberaries
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
[ ] # ploting style
   plt.style.use('ggplot')
```

Data Loading and Initial Exploration:

```
[ ] # data paths for loading
Folder_path = r'C:\Users\maram\Desktop\Airbnb Data'
Listings_file = Folder_path+r'\Listings.csv'
Reviews_file = Folder_path+r'\Reviews.csv'
```

Importing the 2 CSV files wiht ANSI format:

```
listining_data = pd.read_csv(Listings_file,encoding='ANSI')
Reviews_data = pd.read_csv(Reviews_file,encoding='ANSI')
```

Explore the structure of the dateset (number of rows and columns, data types, etc.):

```
print("Dataset shape:", listining_data.shape)
print("\nData Columns types:")
print(listining_data.dtypes)
```

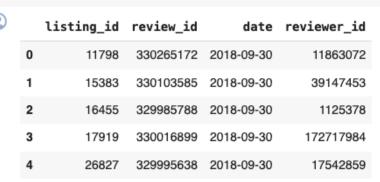
```
Dataset shape: (279712, 33)
    Data Columns types:
    listing_id
                                      int64
    name
                                     object
    host_id
                                      int64
                                     object
    host_since
    host_location
                                     object
    host_response_time
                                     object
    host_response_rate
                                    float64
    host_acceptance_rate
                                    float64
    host_is_superhost
                                     object
    host_total_listings_count
                                    float64
    host_has_profile_pic
                                     object
    host_identity_verified
                                     object
    neighbourhood
                                     object
    district
                                     object
    city
                                     object
    latitude
                                    float64
                                    float64
    longitude
                                     object
    property_type
    room_type
                                     object
    accommodates
                                      int64
    bedrooms
                                    float64
    amenities
                                     object
    price
                                      int64
    minimum_nights
                                      int64
    maximum_nights
                                      int64
    review_scores_rating
                                    float64
    review_scores_accuracy
                                    float64
    review_scores_cleanliness
                                    float64
    review_scores_checkin
                                    float64
    review_scores_communication
                                    float64
    review_scores_location
                                    float64
                                    float64
    review_scores_value
    instant_bookable
                                     object
    dtype: object
   print("Dataset shape:", Reviews_data.shape)
    print("\nData Columns types:")
    print(Reviews_data.dtypes)
Dataset shape: (5373143, 4)
   Data Columns types:
   listing_id
                  int64
    review_id
                    int64
   date
                   object
   reviewer_id
                   int64
   dtype: object
```

Examine the first few rows of the dataset to understand its contents:

```
pd.set_option('display.max_columns', None)
listining_data.head()
```

| | listing_id | name | host_id h | ost_since h | ost_location host_resp | onse_time ho | st_response_rate | host_acceptance_ | ate host_is_superho | st host_total_lis | tings_count | host_has_profile_p: | ic host_identity | _verified r | neighbourhood | district city | latitude | longitude | property_type | room_type | accommodates | bedrooms | amenities pri |
|---|------------|--|-----------|-------------|----------------------------------|--------------|------------------|------------------|---------------------|-------------------|-------------|---------------------|------------------|-------------|-----------------------|---------------|----------|-----------|------------------|--------------|--------------|----------|--|
| 0 | 281420 | Beautiful Flat in le Village Montmartre, Paris | 1466919 | 2011-12-03 | Paris, Ile-de- France, France | NaN | NaN | | NaN | f | 1.0 | | 1 | , | Buttes- Montmartre | NaN Paris | 48.88558 | 2.33343 | Entire apartment | Entire place | 2 | 1.0 | ["Heating", "Kitcher", "Washer", "Wiff", "Long |
| 1 | 3705183 | 39 mÄ,Ų Paris (Sacre CÄ "ur) | 10328771 | 2013-11-29 | Paris, Ile-de- France, France | NaN | NaN | | NaN | r | 1.0 | | t | t | Buttes- Montmartre | NaN Paris | 48.88617 | 2.34515 | Entire apartment | Entire place | 2 | 1.0 | ["Shampoo", "Heating", "Kitcher", "Essentials" |
| 2 | 4082273 | Lovely apartment with Terrace, 60m2 | 19252768 | 2014-07-31 | Paris, Ile-de- France, France | NaN | NaN | | NaN | r | 1.0 | | t | ť | Elysee | NaN Paris | 48.88112 | 2.31712 | Entire apartment | Entire place | 2 | 1.0 | ["Heating", "TV", "Kitchen", "Washer", "Wil", |
| 3 | 4797344 | Cosy studio (close to Eiffel tower) | 10668311 | 2013-12-17 | Paris, Ile-de- France, France | NaN | NaN | | NaN | r | 1.0 | | t | t | Vaugirard | NaN Paris | 48.84571 | 2.30584 | Entire apartment | Entire place | 2 | 1.0 | ["Heating", "TV", "Kitchen", "Wiff", "Long ter |
| 4 | 4823489 | Close to Eiffel Tower - Beautiful 2 flat : 2 rooms | 24837558 | 2014-12-14 | Paris, Ile-de- France, France | NaN | NaN | | NaN | r | 1.0 | | t | t | Passy | NaN Paris | 48.85500 | 2.26979 | Entire apartment | Entire place | 2 | 1.0 | ["Heating", "TV", "Kitcheri", "Essentials", "Ha |





Data Cleaning:

Handle missing values appropriately (e.g., imputation, deletion, etc.).

first we need to see the nan values of out data to know how can we deal with it listining_data.isna().sum() listing_id 0 173 name host_id 0 host_since 165 host_location 840 host_response_time 128782 host_response_rate 128782 113087 host_acceptance_rate 165 host_is_superhost host_total_listings_count 165 host_has_profile_pic 165 host_identity_verified 165 neighbourhood 0 district 242700 city 0 latitude 0 longitude 0 0 property_type 0 room_type 0 accommodates 29435 bedrooms 0 amenities 0 price 0 minimum_nights maximum_nights 0 91405 review_scores_rating review_scores_accuracy 91713 review_scores_cleanliness 91665 review_scores_checkin 91771 review_scores_communication 91687 review_scores_location 91775 91785 review_scores_value instant_bookable 0 dtype: int64

first we need to see the nan values of out data to know how can we deal with it
Reviews_data.isna().sum()

listing_id 0
review_id 0
date 0
reviewer_id 0
dtype: int64

more information about our data listining_data.describe()

| | listing_id | host_id | host_response_rate | host_acceptance_rate | host_total_listings_count | latitude | longitude | accommodates | bedrooms | price | minimum_nights | maximum_nights | review_scores_rating | review_scores_accuracy | |
|-------|--------------|--------------|--------------------|----------------------|---------------------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------------|------------------------|--|
| count | 2.797120e+05 | 2.797120e+05 | 150930.000000 | 166625.000000 | 279547.000000 | 279712.000000 | 279712.000000 | 279712.000000 | 250277.000000 | 279712.000000 | 279712.000000 | 2.797120e+05 | 188307.000000 | 187999.000000 | |
| mean | 2.638196e+07 | 1.081658e+08 | 0.865939 | 0.827168 | 24.581612 | 18.761862 | 12.595075 | 3.288736 | 1.515509 | 608.792737 | 8.050967 | 2.755860e+04 | 93.405195 | 9.565476 | |
| std | 1.442576e+07 | 1.108570e+08 | 0.283744 | 0.289202 | 284.041143 | 32.560343 | 73.081309 | 2.133379 | 1.153080 | 3441.826611 | 31.518946 | 7.282875e+06 | 10.070437 | 0.990878 | |
| min | 2.577000e+03 | 1.822000e+03 | 0.000000 | 0.000000 | 0.000000 | -34.264400 | -99.339630 | 0.000000 | 1.000000 | 0.000000 | 1.000000 | 1.000000e+00 | 20.000000 | 2.000000 | |
| 25% | 1.384462e+07 | 1.720656e+07 | 0.900000 | 0.780000 | 1.000000 | -22.964390 | -43.198040 | 2.000000 | 1.000000 | 75.000000 | 1.000000 | 4.500000e+01 | 91.000000 | 9.000000 | |
| 50% | 2.767098e+07 | 5.826911e+07 | 1.000000 | 0.980000 | 1.000000 | 40.710785 | 2.382780 | 2.000000 | 1.000000 | 150.000000 | 2.000000 | 1.125000e+03 | 96.000000 | 10.000000 | |
| 75% | 3.978485e+07 | 1.832853e+08 | 1.000000 | 1.000000 | 4.000000 | 41.908610 | 28.986730 | 4.000000 | 2.000000 | 474.000000 | 5.000000 | 1.125000e+03 | 100.000000 | 10.000000 | |
| max | 4.834353e+07 | 3.901874e+08 | 1.000000 | 1.000000 | 7235.000000 | 48.904910 | 151.339810 | 16.000000 | 50.000000 | 625216.000000 | 9999.000000 | 2.147484e+09 | 100.000000 | 10.000000 | |

```
listining_data.columns
'district', 'city', 'latitude', 'longitude', 'property_type', 'room_type', 'accommodates', 'bedrooms', 'amenities', 'price'
           'minimum_nights', 'maximum_nights', 'review_scores_rating',
           'review_scores_accuracy', 'review_scores_cleanliness', 'review_scores_checkin', 'review_scores_communication',
           'review_scores_location', 'review_scores_value', 'instant_bookable'],
          dtype='object')
[ ] ## see the values count of each column
    print ('Cities Values \n' , listining_data['city'].value_counts())
    Cities Values
                         64690
     Paris
    New York
                        37012
    Sydney
                        33630
    Rome
                        27647
    Rio de Janeiro
                        26615
    Istanbul
                        24519
    Mexico City
                        20065
    Bangkok
                        19361
                        19086
    Cape Town
    Hong Kong
                         7087
    Name: city, dtype: int64
# see the values count of each column
    print ('room_type Values \n' , listining_data['room_type'].value_counts())
room_type Values
     Entire place
                     182005
    Private room
                      86988
    Hotel room
                      5857
    Shared room
                      4862
    Name: room_type, dtype: int64
 ## see the values count of each column
     print ('review_scores_rating Values \n' , listining_data['review_scores_rating'].value_counts())
 review_scores_rating Values
      100.0
               57458
     98.0
               13616
     97.0
              12425
     96.0
              12261
     93.0
              10995
     31.0
                   1
     36.0
                   1
     27.0
                   1
     61.0
                  1
     44.0
                  1
     Name: review_scores_rating, Length: 63, dtype: int64
```

```
[ ] ## plot of review_scores_rating
  listining_data['review_scores_rating'].plot(kind ='hist',bins=100)
```

```
<Axes: ylabel='Frequency'>
50000 -
40000 -
20000 -
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```

nan values of out data (how can we deal with it ?) listining_data.isna().sum()

| 0 | listing_id | 0 | |
|---|-----------------------------|--------|--|
| | name | ő | |
| • | host_id | ő | |
| | host_since | ø | |
| | host_location | 0 | |
| | host_response_time | 128782 | |
| | host_response_rate | 128782 | |
| | host_acceptance_rate | 113087 | |
| | host_is_superhost | 165 | |
| | host_total_listings_count | 0 | |
| | host_has_profile_pic | 165 | |
| | host_identity_verified | 165 | |
| | neighbourhood | 0 | |
| | district | 242700 | |
| | city | 0 | |
| | latitude | 0 | |
| | longitude | 0 | |
| | property_type | 0 | |
| | room_type | 0 | |
| | accommodates | 0 | |
| | bedrooms | 0 | |
| | amenities | 0 | |
| | price | 0 | |
| | minimum_nights | 0 | |
| | maximum_nights | 0 | |
| | review_scores_rating | 0 | |
| | review_scores_accuracy | 0 | |
| | review_scores_cleanliness | 0 | |
| | review_scores_checkin | 0 | |
| | review_scores_communication | 0 | |
| | review_scores_location | 0 | |
| | review_scores_value | 0 | |
| | instant_bookable | 0 | |
| | dtype: int64 | | |
| | | | |

```
[] # missing values for remaining columns
    listining_data['host_response_time'].fillna("Unknown", inplace=True)
    listining_data['host_response_rate'].fillna(listining_data['host_response_rate'].median(), inplace=True)
    listining_data['host_acceptance_rate'].fillna(listining_data['host_acceptance_rate'].median(), inplace=True)
    listining_data['district'].fillna("Unknown", inplace=True)
```

```
# nan values
listining_data.isna().sum()
```

```
listing_id
                              0
host_id
                              0
host_since
                              0
host_location
host_response_time
host_response_rate
host_acceptance_rate
host_is_superhost
host_total_listings_count
host_has_profile_pic
                              0
host_identity_verified
                             0
neighbourhood
district
                              0
city
latitude
                              0
                              0
longitude
                              0
property_type
room_type
                              0
accommodates
                              0
bedrooms
amenities
                              0
                              0
price
                              0
minimum_nights
maximum_nights
review_scores_rating
review_scores_accuracy
review_scores_cleanliness
                             0
review_scores_checkin
review_scores_communication 0
review_scores_location
review_scores_value
instant_bookable
dtype: int64
```

Check for any duplicate entries:

```
[ ] # Check for duplicate entries
   duplicate_rows = listining_data.duplicated().sum()
   print("\nNumber of duplicate rows are:", duplicate_rows)
```

Number of duplicate rows are: 0

Convert categorical variables into the appropriate data type if necessary:

```
[ ] # categorical columns
              categorical_cols = listining_data.select_dtypes(include=['object']).columns
               print("Categorical Columns:")
              print(categorical_cols)
              Categorical Columns:
              'neighbourhood', 'district', 'city', 'property_type', 'room_type',
                         'amenities', 'instant_bookable'],
                       dtype='object')
                   listining_data[categorical_cols].head()
                                                                                                                                                                         ↑ ↓ ፡> 🗏 💠 🗓 🗓 :
listining_data[categorical_cols].head()
                                     host_location host_response_time host_is_superhost host_has_profile_pic host_identity_verified neighbourhood district city property_type room_type
                                                                                                                                                                           amenities instant_bookable
         Beautiful Flat in le Village Montmartre, Paris 2011-12-03 Paris, lle-de-France, France
                                                                                                                               NaN Paris Entire apartment Entire place ["Heating", "Kitchen", "Washer", "Wifi", "Long...
       39 mÃ,Ų Paris (Sacre CÃ... 2013-11-29 Paris, lle-de-France, France
                                                                                                                                  NaN Paris Entire apartment Entire place ["Shampoo", "Heating", "Kitchen",
   2 Lovely apartment with Terrace, 60m2 2014-07-31 Paris, Ile-de-France, France
                                   Paris, Ile-de-France,
France
        Cosy studio (close to Eiffel tower) 2013-12-17
                                                                                                                                  NaN Paris Entire apartment Entire place ["Heating", "TV", "Kitchen", "Wifi", "Long ter...
   Close to Eiffel Tower - Beautiful Paris, Ile-de-France,
        [ ] ## see the values count of each column
              print ('host_is_superhost Values \n' , listining_data['host_is_superhost'].value_counts())
              host_is_superhost Values
                      229294
                      50253
              Name: host_is_superhost, dtype: int64
        [ ] # Alternatively, using replace
              # host_is_superhost
              # host_has_profile_pic
              # host_identity_verified
              # instant_bookable
              convert_to_bool = ('host_is_superhost','host_has_profile_pic','host_identity_ver_ified','instant_bookable')
              for Col in convert_to_bool :
                   listining_data[Col] = listining_data[Col].replace({'f': False, 't': True})
                   listining_data[Col] = listining_data[Col].astype(bool)
             listining_data[categorical_cols].head()
                       name host since
                                         host_location host_response_time host_is_superhost host_has_profile_pic host_identity_verified neighbourhood district city property_type room_type
                                                                                                                                                                            amenities instant bookable
      tiful Flat in le Village Montmartre, Paris 2011-12-03 Paris, lie-de-France, France NaN
                                                                                                           False Buttes-Montmartre NaN Paris Entire apartment Entire place ["Heating", "Kitchen", "Washer", "Will", "Long...
       39 mŠŲ Paris (Sacre CÅ ... &€œur) 2013-11-29 Paris, Ile-de-France, France
                                                              NaN
                                                                           False
                                                                                                            True Buttes-Montmartre
                                                                                                                               NaN Paris Entire apartment Entire place ["Shampoo", "Heating", "Kitchen", "Essentials"...
```

False Elysee NaN Paris Entire apartment Entire place ("Heating", "TV", "Kitchen", "Washer", "With",...

Faise Passy NaN Paris Entire apartment Entire place ["Heating", "TV", "Kitchen", "Essentials", "Ha...

NaN Paris Entire apartment Entire place ["Heating", "TV", "Kitchen", "Wiff", "Long ter...

Vaugirard

False

Exploratory Data Analysis:

NaN

False

False

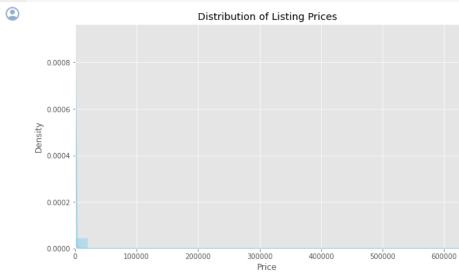
True

Lovely apartment with Terrace, 60m2 2014-07-31 Paris, Ile-de-France, France

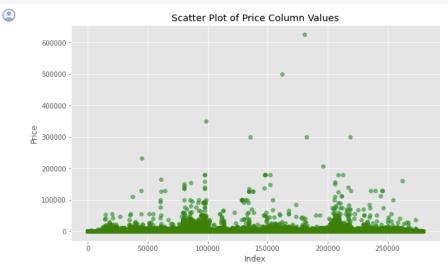
Cosy studio (close to Eiffel tower) 2013-12-17 Paris, lie-de-France, France

se to Elffel Tower - Beautiful flat : 2 rooms 2014-12-14 Paris, Ile-de-France, France

```
plt.figure(figsize=(10, 6))
sns.histplot(listining_data['price'], bins=30, kde=True, color='skyblue', stat='density')
plt.title('Distribution of Listing Prices')
plt.xlabel('Price')
plt.ylabel('Price')
plt.ylabel('Density')
plt.xlim(listining_data['price'].min(), listining_data['price'].max()) # Set x-axis range
plt.show()
```



```
# Scatter plot of 'price' column values
plt.figure(figsize=(10, 6))
plt.scatter(range(len(listining_data['price'])), listining_data['price'], color='green', alpha=0.5)
plt.title('Scatter Plot of Price Column Values')
plt.xlabel('Index')
plt.ylabel('Price')
plt.show()
```



```
[ ] plt.figure(figsize=(50, 10))
    plt.scatter(listining_data['property_type'], listining_data['price'], alpha=0.5)
    plt.title('Price vs. Property Type')
    plt.xlabel('Property Type')
    plt.ylabel('Price')
    plt.xticks(rotation=45)
    plt.show()
    # Scatter plot: Price vs. Neighborhood
    plt.figure(figsize=(50, 6))
    plt.scatter(listining_data['neighbourhood'], listining_data['price'], alpha=0.5)
    plt.title('Price vs. Neighborhood')
    plt.xlabel('Neighborhood')
plt.ylabel('Price')
    plt.xticks(rotation=45)
    plt.show()
           summary_statistics = listining_data[['price', 'review_scores_rating', 'review_scores_accuracy', 'review_scores_cleanliness',
                                                    review_scores_checkin', 'review_scores_communication', 'review_scores_location',
                                                   'review_scores_value']].describe()
           print(summary_statistics)
                                  review_scores_rating review_scores_accuracy
           count
                  279712.000000
                                          279712.000000
                                                                   279712.000000
           mean
                      608.792737
                                              94.253132
                                                                         9.707950
                     3441.826611
                                               8.351922
                                                                         0.837567
           std
                        0.000000
                                              20.000000
                                                                         2.000000
           min
           25%
                       75.000000
                                              94.000000
                                                                        10.000000
           50%
                      150.000000
                                              96.000000
                                                                        10.000000
           75%
                      474.000000
                                              98.000000
                                                                        10.000000
                   625216.000000
                                             100.000000
                                                                        10.000000
           max
                   review_scores_cleanliness
                                               review_scores_checkin
           count
                               279712.000000
                                                        279712.000000
           mean
                                     9.538050
                                                             9.799458
                                     0.993508
                                                             0.724713
           std
                                     2.000000
                                                             2.000000
           min
           25%
                                     9.000000
                                                            10.000000
           50%
                                    10.000000
                                                            10.000000
           75%
                                    10.000000
                                                            10.000000
           max
                                    10.000000
                                                            10.000000
                   review_scores_communication
                                                 review_scores_location
           count
                                 279712.000000
                                                           279712.000000
           mean
                                       9.797392
                                                                9.754083
                                                                0.704282
                                       0.740778
           std
                                       2.000000
                                                                2.000000
           min
           25%
                                      10.000000
                                                               10.000000
           50%
                                      10.000000
                                                               10.000000
           75%
                                      10.000000
                                                               10.000000
           max
                                      10.000000
                                                               10.000000
                   review_scores_value
           count
                         279712.000000
           mean
                              9.553459
                              0.909803
           std
                              2.000000
           min
                              9.000000
           25%
           50%
                              10.000000
           75%
                             10.000000
```

Feature Engineering:

max

10.000000

|] | 1 | istini | ing_da | ta[ˈaɪ | vg_rat | ting'] = | : listini | | | | | iew_scores_acc view_scores_co | | | | | | review <u>.</u> | _scores_v | /alue' |].mean(| axis= | :1) |
|-----|---|-------------|---|------------|-----------|----------------------------------|------------------|-------------------|-----------|--------------------------|-------------------|----------------------------------|----------------------|----------------------|-----------------------|----------|--------------|-----------------|------------------|--------------|--------------|----------|--|
|] | <pre>] merged_data = pd.merge(listining_data, Reviews_data, on='listing_id', how='inner')</pre> | | | | | | | | | | | | | | | | | | | | | | |
|] |] m | erged_ | _data[| 'occul | pancy_ | _rate'] | = merge | d_data.gro | oupby (| 'listing_id') | ['review_ | id'].transform | ('count') / | merged_data | a['maxi | mum_ni | ghts'] | | | | | | |
| [] | | _data.head(| | | | | | | | | | | | | | | | | | | | | |
| | lis | ting_id | name h | ost_id hos | t_since h | host_location | host_response_ti | me host_response_ | rate host | _acceptance_rate host_is | _superhost host_t | total_listings_count host_ | has_profile_pic host | _identity_verified n | eighbourhood | district | ity latitu | de longitude | property_type | room_type | accormodates | bedrooms | amenities |
| | 0 | 281420 | Beautiful Flat in le Village ontmartre, Paris | 466919 2 | 011-12-03 | Paris, Ile-de- France, France | Unkno | WD. | 1.0 | 0.98 | False | 1.0 | True | False | Buttes- Montmartre | Unknown | Paris 48.886 | 58 2.33343 | Entire apartment | Entire place | 2 | 1.0 | ["Heating", "Kitchen", "Washer", "Wiff", "Long |
| | 1 | 281420 | Beautiful Flat in le Village ontmartre, Paris | 466919 21 | 011-12-03 | Paris, Ile-de- France, France | Unkno | WATI | 1.0 | 0.98 | False | 1.0 | True | False | Buttes- Montmartre | Unknown | Paris 48.885 | 58 2.33343 | Entire apartment | Entire place | 2 | 1.0 | ["Heating", "Kitchen", "Washer", "Wiff", "Long |
| | 2 | 3705183 | 39 mÅŪ Paris (Sacre 10 CÅ 倜ur) | 328771 2 | 013-11-29 | Paris, Ile-de- France, France | Unkno | MATI | 1.0 | 0.98 | False | 1.0 | True | True | Buttes- Montmartre | Unknown | Paris 48.886 | 17 2.34515 | Entire apartment | Entire place | 2 | 1.0 | ["Shampoo", "Heating", "Kitchen", "Essentials" |
| | 3 | 3705183 | 39 mŠŲ Paris (Sacre 10 CÅ 倜ur) | 328771 2 | 013-11-29 | Paris, lle-de- France, France | Unkno | WIT | 1.0 | 0.98 | False | 1.0 | True | True | Buttes- Montmartre | Unknown | Paris 48.886 | 17 2.34515 | Entire apartment | Entire place | 2 | 1.0 | ("Shampoo", "Heating", "Kitchen", "Essentials" |
| | 4 | 3705183 | 39 mÅŲ Paris (Sacre 10 CÅ | 328771 2 | 013-11-29 | Paris, lle-de- France, France | Unkno | awn. | 1.0 | 0.98 | False | 1.0 | True | True | Buttes- Montmartre | Unknown | Paris 48.885 | 17 2.34515 | Entire apartment | Entire place | 2 | 1.0 | ("Shampoo", "Heating", "Kitchen", |