```
In [2]:  import pandas as pd
         import numpy as np
         df = pd.read_csv("AB_NYC_2019.csv")
         df.head(10)
```

Out[2]:

	id	name	host_id	host_name	neighbourhood_group	neighbourhood	latitude	longitude	room_type	price	minimum_nights	num
0	2539	Clean & quiet apt home by the park	2787	John	Brooklyn	Kensington	40.64749	-73.97237	Private room	149	1	
1	2595	Skylit Midtown Castle	2845	Jennifer	Manhattan	Midtown	40.75362	-73.98377	Entire home/apt	225	1	
2	3647	THE VILLAGE OF HARLEM....NEW YORK !	4632	Elisabeth	Manhattan	Harlem	40.80902	-73.94190	Private room	150	3	
3	3831	Cozy Entire Floor of Brownstone	4869	LisaRoxanne	Brooklyn	Clinton Hill	40.68514	-73.95976	Entire home/apt	89	1	
4	5022	Entire Apt: Spacious Studio/Loft by central park	7192	Laura	Manhattan	East Harlem	40.79851	-73.94399	Entire home/apt	80	10	
5	5099	Large Cozy 1 BR Apartment In Midtown East	7322	Chris	Manhattan	Murray Hill	40.74767	-73.97500	Entire home/apt	200	3	
6	5121	BlissArtsSpace!	7356	Garon	Brooklyn	Bedford-Stuyvesant	40.68688	-73.95596	Private room	60	45	
7	5178	Large Furnished Room Near B'way	8967	Shunichi	Manhattan	Hell's Kitchen	40.76489	-73.98493	Private room	79	2	
8	5203	Cozy Clean Guest Room - Family Apt	7490	MaryEllen	Manhattan	Upper West Side	40.80178	-73.96723	Private room	79	2	
9	5238	Cute & Cozy Lower East Side 1 bdrm	7549	Ben	Manhattan	Chinatown	40.71344	-73.99037	Entire home/apt	150	1	

```
In [ ]:
```

```
In [22]:   df.shape
```

```
Out[22]:   (48895, 17)
```

```
In [23]:   df.describe()
```

Out[23]:

	id	host_id	latitude	longitude	price	minimum_nights	number_of_reviews	reviews_per_month	calculated_
count	4.889500e+04	4.889500e+04	48895.000000	48895.000000	48895.000000	48895.000000	48895.000000	38843.000000	
mean	1.901714e+07	6.762001e+07	40.728949	-73.952170	152.720687	7.029962	23.274466	1.373221	
std	1.098311e+07	7.861097e+07	0.054530	0.046157	240.154170	20.510550	44.550582	1.680442	
min	2.539000e+03	2.438000e+03	40.499790	-74.244420	0.000000	1.000000	0.000000	0.010000	
25%	9.471945e+06	7.822033e+06	40.690100	-73.983070	69.000000	1.000000	1.000000	0.190000	
50%	1.967728e+07	3.079382e+07	40.723070	-73.955680	106.000000	3.000000	5.000000	0.720000	
75%	2.915218e+07	1.074344e+08	40.763115	-73.936275	175.000000	5.000000	24.000000	2.020000	
max	3.648724e+07	2.743213e+08	40.913060	-73.712990	10000.000000	1250.000000	629.000000	58.500000	

```
In [13]:   max_qua = df.price.quantile(0.95)
           max_qua
```

```
Out[13]:   355.0
```

```
In [14]:   min_qua = df.price.quantile(0.05)
```

```
In [15]:   min_qua
```

```
Out[15]:   40.0
```

```
In [17]:   ss = df[(df["price"]<max_qua)&(df["price"]>min_qua)]
```

```
In [18]:   ss["price"]
```

```
Out[18]:   0          149
           1          225
           2          150
           3           89
           4           80
                      ...
           48889       65
           48890       70
           48892      115
           48893       55
           48894       90
           Name: price, Length: 43631, dtype: int64
```

```
In [19]:   ss.shape
```

```
Out[19]:   (43631, 17)
```

```
In [20]:   df.shape
```

```
Out[20]:   (48895, 17)
```

```
In [21]:   df[(df["price"]>max_qua)|(df["price"]<min_qua)]
```

Out[21]:

	id	name	host_id	host_name	neighbourhood_group	neighbourhood	latitude	longitude	room_type	price	minimum_
36	11452	Clean and Quiet in Brooklyn	7355	Vt	Brooklyn	Bedford-Stuyvesant	40.68876	-73.94312	Private room	35	
61	15396	Sunny & Spacious Chelsea Apartment	60278	Petra	Manhattan	Chelsea	40.74623	-73.99530	Entire home/apt	375	
85	19601	perfect for a family or small group	74303	Maggie	Brooklyn	Brooklyn Heights	40.69723	-73.99268	Entire home/apt	800	
103	23686	2000 SF 3br 2bath West Village private townhouse	93790	Ann	Manhattan	West Village	40.73096	-74.00319	Entire home/apt	500	
121	27659	3 Story Town House in Park Slope	119588	Vero	Brooklyn	South Slope	40.66499	-73.97925	Entire home/apt	400	

	id	name	host_id	host_name	neighbourhood_group	neighbourhood	latitude	longitude	room_type	price	minimum_
...	...	...	...	...	...	...	...	...	...	...	
48851	36455649	#7 New Hotel-Like Private Room KING bed near JFK	263504959	David	Queens	Woodhaven	40.69137	-73.86591	Private room	35	
48852	36455809	Cozy Private Room in Bushwick, Brooklyn	74162901	Christine	Brooklyn	Bushwick	40.69805	-73.92801	Private room	30	
48867	36473044	The place you were dreaming for. (only for guys)	261338177	Diana	Brooklyn	Gravesend	40.59080	-73.97116	Shared room	25	
48868	36473253	Heaven for you(only for guy)	261338177	Diana	Brooklyn	Gravesend	40.59118	-73.97119	Shared room	25	
48871	36475746	A LARGE ROOM - 1 MONTH MINIMUM - WASHER&DRYER	144008701	Ozzy Ciao	Manhattan	Harlem	40.82233	-73.94687	Private room	35	

4483 rows × 17 columns

In [ ]: