

# act1

October 5, 2025

```
[ ]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

```
[ ]: # Carga de archivo
df = pd.read_csv("listings_ROME.csv", engine='python', quotechar='"',
on_bad_lines='skip')
pd.set_option('display.max_columns', None)
df.head(5)
```

```
[ ]:          id          listing_url \
0  2.737000e+03  https://www.airbnb.com/rooms/2737
1  3.079000e+03  https://www.airbnb.com/rooms/3079
2  1.183400e+04  https://www.airbnb.com/rooms/11834
3  1.239800e+04  https://www.airbnb.com/rooms/12398
4  1.210000e+18  https://www.airbnb.com/rooms/1211500232171693714
```

```
      scrape_id last_scraped      source \
0  2.030000e+13    05/03/25  city scrape
1  2.030000e+13    08/03/25  city scrape
2  2.030000e+13    15/03/25  city scrape
3  2.030000e+13    06/03/25  city scrape
4  2.030000e+13    05/03/25  city scrape
```

```
          name \
0      Elif's room in cozy, clean flat.
1  Cozy apartment (2-4)with Colisseum view
2      Charming Boschetto Studio, Rome
3      Casa Donatello - Home far from Home
4  La Quercia Nera - Trastevere - Centro di Roma
```

```
          description \
0  10 min by bus you can get to Piazza Venezia or...
1  With the view of the Colisseum from the front ...
2  Fantastic apartment in the Monti district. Th...
3  Casa Donatello is a newly renovated two-bedroo...
4  Discover the charm of Rome by staying in our n...
```

```

neighborhood_overview \
0 It used to be an industrial area until late 80...
1 Monti neighborhood is one of the best areas in...
2 "Monti" with its narrow cobblestone alleys, cr...
3 You are at 15 minutes walking distance from hi...
4 You will appreciate the proximity to Trastever...

picture_url host_id \
0 https://a0.muscache.com/pictures/41225252/e955... 3047
1 https://a0.muscache.com/pictures/miso/Hosting-... 3504
2 https://a0.muscache.com/pictures/miso/Hosting-... 44552
3 https://a0.muscache.com/pictures/miso/Hosting-... 11756
4 https://a0.muscache.com/pictures/hosting/Hosti... 590573096

host_url host_name host_since \
0 https://www.airbnb.com/users/show/3047 Elif 18/09/08
1 https://www.airbnb.com/users/show/3504 Laura 08/10/08
2 https://www.airbnb.com/users/show/44552 Serena 09/10/09
3 https://www.airbnb.com/users/show/11756 Gea 30/03/09
4 https://www.airbnb.com/users/show/590573096 Mario 18/07/24

host_location host_about \
0 Rome, Italy I am a Turkish-Italian who was born in Istanbul...
1 Rome, Italy I've a degree in Art History\r\n
2 Rome, Italy Hello I'm Serena I was born and live in Rome, ...
3 Rome, Italy Hello to everybody,\r\nIt will be a pleasure t...
4 Rome, Italy NaN

host_response_time host_response_rate host_acceptance_rate \
0 within a few hours 100% 0%
1 within a day 100% 0%
2 within a few hours 100% 98%
3 within an hour 100% 96%
4 within an hour 100% 100%

host_is_superhost host_thumbnail_url \
0 f https://a0.muscache.com/im/pictures/user/User/...
1 f https://a0.muscache.com/im/users/3504/profile_...
2 t https://a0.muscache.com/im/users/44552/profile...
3 t https://a0.muscache.com/im/users/11756/profile...
4 t https://a0.muscache.com/im/pictures/user/User/...

host_picture_url host_neighbourhood \
0 https://a0.muscache.com/im/pictures/user/User/... Testaccio
1 https://a0.muscache.com/im/users/3504/profile_... Monti
2 https://a0.muscache.com/im/users/44552/profile... Monti

```

3	<a href="https://a0.muscache.com/im/users/11756/profile...">https://a0.muscache.com/im/users/11756/profile...</a>	Flaminio
4	<a href="https://a0.muscache.com/im/pictures/user/User/...">https://a0.muscache.com/im/pictures/user/User/...</a>	NaN

	host_listings_count	host_total_listings_count	host_verifications	\
0	7.0	7.0	['email', 'phone']	
1	6.0	11.0	['email', 'phone']	
2	1.0	2.0	['email', 'phone']	
3	1.0	2.0	['email', 'phone']	
4	5.0	5.0	['email', 'phone']	

	host_has_profile_pic	host_identity_verified	neighbourhood	\
0	t	t	Rome, Lazio, Italy	
1	t	t	Rome, Lazio, Italy	
2	t	t	Rome, Lazio, Italy	
3	t	t	Rome, Lazio, Italy	
4	t	t	Rome, Lazio, Italy	

	neighbourhood_cleansed	neighbourhood_group_cleansed	latitude	longitude	\
0	VIII Appia Antica		NaN	41.871360	12.482150
1	I Centro Storico		NaN	41.895000	12.491170
2	I Centro Storico		NaN	41.895447	12.491181
3	II Parioli/Nomentano		NaN	41.925820	12.469280
4	XII Monte Verde		NaN	41.875124	12.466063

	property_type	room_type	accommodates	bathrooms	\
0	Private room	Private room	1	1.5	
1	Entire rental unit	Entire home/apt	4	1.0	
2	Entire rental unit	Entire home/apt	2	1.0	
3	Entire rental unit	Entire home/apt	6	1.0	
4	Private room in condo	Private room	2	1.0	

	bathrooms_text	bedrooms	beds	\
0	1.5 baths	1.0	1.0	
1	1 bath	1.0	1.0	
2	1 bath	1.0	1.0	
3	1 bath	2.0	3.0	
4	1 private bath	1.0	1.0	

	amenities	price	minimum_nights	\
0	["Dedicated workspace", "Bidet", "Iron", "Toas...]	\$56.00	31	
1	["Paid parking off premises", "Dedicated works...]	\$140.00	31	
2	["Extra pillows and blankets", "Cleaning produ...]	\$110.00	2	
3	["Dedicated workspace", "Bidet", "Iron", "Toas...]	\$97.00	31	
4	["Dedicated workspace", "Bidet", "Iron", "Toas...]	\$81.00	1	

	maximum_nights	minimum_minimum_nights	maximum_minimum_nights	\
0	1125	31.0	31.0	

1	180	31.0	31.0
2	28	1.0	2.0
3	365	31.0	31.0
4	28	1.0	2.0

	minimum_maximum_nights	maximum_maximum_nights	minimum_nights_avg_ntm \
0	1125.0	1125.0	31.0
1	180.0	180.0	31.0
2	28.0	28.0	2.0
3	365.0	365.0	31.0
4	28.0	28.0	1.1

	maximum_nights_avg_ntm	calendar_updated	has_availability	availability_30 \
0	1125.0	NaN	t	30
1	180.0	NaN	t	24
2	28.0	NaN	t	11
3	365.0	NaN	t	30
4	28.0	NaN	t	25

	availability_60	availability_90	availability_365	calendar_last_scraped \
0	60	90	365	05/03/25
1	31	43	303	08/03/25
2	14	26	171	15/03/25
3	48	71	221	06/03/25
4	55	83	258	05/03/25

	number_of_reviews	number_of_reviews_ltm	number_of_reviews_l30d \
0	5	0	0
1	21	0	0
2	268	45	0
3	78	11	0
4	5	5	3

	availability_eoy	number_of_reviews_ly	estimated_occupancy_l365d \
0	302	0	0
1	237	0	0
2	98	46	255
3	177	11	255
4	258	0	30

	estimated_revenue_l365d	first_review	last_review	review_scores_rating \
0	0.0	26/12/14	08/05/15	4.80
1	0.0	02/01/11	30/04/22	4.53
2	28050.0	01/05/11	08/01/25	4.86
3	24735.0	18/10/10	30/10/24	4.90
4	2430.0	17/01/25	25/02/25	5.00

	review_scores_accuracy	review_scores_cleanliness	review_scores_checkin	\
0	4.60	4.60	4.80	
1	4.38	4.62	4.71	
2	4.86	4.93	4.98	
3	4.89	4.92	4.93	
4	5.00	5.00	5.00	

	review_scores_communication	review_scores_location	review_scores_value	\
0	5.00	4.40	4.40	
1	4.86	4.81	4.43	
2	4.96	4.99	4.81	
3	5.00	4.87	4.82	
4	5.00	4.80	5.00	

	license	instant_bookable	calculated_host_listings_count	\
0	NaN	f	6	
1	NaN	f	6	
2	IT058091C29VJSIZQZ	f	1	
3	it058091c2kv6epw8f	f	1	
4	IT058091C2P495DNNK	f	5	

	calculated_host_listings_count_entire_homes	\
0	0	
1	6	
2	1	
3	1	
4	1	

	calculated_host_listings_count_private_rooms	\
0	6	
1	0	
2	0	
3	0	
4	4	

	calculated_host_listings_count_shared_rooms	reviews_per_month
0	0	0.04
1	0	0.12
2	0	1.59
3	0	0.45
4	0	3.13

```
[ ]: ## Identificar valores nulos
pd.set_option('display.max_rows', None)
display(df.isnull().sum())
```

id

0

listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	474
neighborhood_overview	2357
picture_url	0
host_id	0
host_url	0
host_name	7
host_since	7
host_location	1238
host_about	3885
host_response_time	2184
host_response_rate	2184
host_acceptance_rate	1337
host_is_superhost	493
host_thumbnail_url	7
host_picture_url	7
host_neighbourhood	2482
host_listings_count	7
host_total_listings_count	7
host_verifications	7
host_has_profile_pic	7
host_identity_verified	7
neighbourhood	2357
neighbourhood_cleansed	0
neighbourhood_group_cleansed	10489
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	1642
bathrooms_text	23
bedrooms	406
beds	1643
amenities	0
price	1642
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0

calendar_updated	10489
has_availability	272
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642
first_review	714
last_review	714
review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717
review_scores_location	719
review_scores_value	718
license	1628
instant_bookable	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	714

dtype: int64

```
[ ]: ## Copia
df_ROMA = df
df_ROMA.head(5)
```

```
[ ]:          id          listing_url \
0  2.737000e+03  https://www.airbnb.com/rooms/2737
1  3.079000e+03  https://www.airbnb.com/rooms/3079
2  1.183400e+04  https://www.airbnb.com/rooms/11834
3  1.239800e+04  https://www.airbnb.com/rooms/12398
4  1.210000e+18  https://www.airbnb.com/rooms/1211500232171693714

      scrape_id last_scraped source \
0  2.030000e+13    05/03/25  city scrape
1  2.030000e+13    08/03/25  city scrape
2  2.030000e+13    15/03/25  city scrape
```

3	2.030000e+13	06/03/25	city scrape
4	2.030000e+13	05/03/25	city scrape

	name \
0	Elif's room in cozy, clean flat.
1	Cozy apartment (2-4)with Colisseum view
2	Charming Boschetto Studio, Rome
3	Casa Donatello - Home far from Home
4	La Quercia Nera - Trastevere - Centro di Roma

	description \
0	10 min by bus you can get to Piazza Venezia or...
1	With the view of the Colisseum from the front ...
2	Fantastic appartment in the Monti district. Th...
3	Casa Donatello is a newly renovated two-bedroo...
4	Discover the charm of Rome by staying in our n...

	neighborhood_overview \
0	It used to be an industrial area until late 80...
1	Monti neighborhood is one of the best areas in...
2	"Monti" with its narrow cobblestone alleys, cr...
3	You are at 15 minutes walking distance from hi...
4	You will appreciate the proximity to Trastever...

	picture_url	host_id \
0	<a href="https://a0.muscache.com/pictures/41225252/e955...">https://a0.muscache.com/pictures/41225252/e955...</a>	3047
1	<a href="https://a0.muscache.com/pictures/miso/Hosting-...">https://a0.muscache.com/pictures/miso/Hosting-...</a>	3504
2	<a href="https://a0.muscache.com/pictures/miso/Hosting-...">https://a0.muscache.com/pictures/miso/Hosting-...</a>	44552
3	<a href="https://a0.muscache.com/pictures/miso/Hosting-...">https://a0.muscache.com/pictures/miso/Hosting-...</a>	11756
4	<a href="https://a0.muscache.com/pictures/hosting/Hosti...">https://a0.muscache.com/pictures/hosting/Hosti...</a>	590573096

	host_url	host_name	host_since \
0	<a href="https://www.airbnb.com/users/show/3047">https://www.airbnb.com/users/show/3047</a>	Elif	18/09/08
1	<a href="https://www.airbnb.com/users/show/3504">https://www.airbnb.com/users/show/3504</a>	Laura	08/10/08
2	<a href="https://www.airbnb.com/users/show/44552">https://www.airbnb.com/users/show/44552</a>	Serena	09/10/09
3	<a href="https://www.airbnb.com/users/show/11756">https://www.airbnb.com/users/show/11756</a>	Gea	30/03/09
4	<a href="https://www.airbnb.com/users/show/590573096">https://www.airbnb.com/users/show/590573096</a>	Mario	18/07/24

	host_location	host_about \
0	Rome, Italy	I am a Turkish-Italian who was born in Istanbul...
1	Rome, Italy	I've a degree in Art History\r\n
2	Rome, Italy	Hello I'm Serena I was born and live in Rome, ...
3	Rome, Italy	Hello to everybody,\r\nIt will be a pleasure t...
4	Rome, Italy	NaN

	host_response_time	host_response_rate	host_acceptance_rate \
0	within a few hours	100%	0%



1	within a day	100%	0%
2	within a few hours	100%	98%
3	within an hour	100%	96%
4	within an hour	100%	100%

	host_is_superhost	host_thumbnail_url \
0	f	https://a0.muscache.com/im/pictures/user/User/...
1	f	https://a0.muscache.com/im/users/3504/profile_...
2	t	https://a0.muscache.com/im/users/44552/profile...
3	t	https://a0.muscache.com/im/users/11756/profile...
4	t	https://a0.muscache.com/im/pictures/user/User/...

	host_picture_url	host_neighbourhood \
0	https://a0.muscache.com/im/pictures/user/User/...	Testaccio
1	https://a0.muscache.com/im/users/3504/profile_...	Monti
2	https://a0.muscache.com/im/users/44552/profile...	Monti
3	https://a0.muscache.com/im/users/11756/profile...	Flaminio
4	https://a0.muscache.com/im/pictures/user/User/...	NaN

	host_listings_count	host_total_listings_count	host_verifications \
0	7.0	7.0	['email', 'phone']
1	6.0	11.0	['email', 'phone']
2	1.0	2.0	['email', 'phone']
3	1.0	2.0	['email', 'phone']
4	5.0	5.0	['email', 'phone']

	host_has_profile_pic	host_identity_verified	neighbourhood \
0	t	t	Rome, Lazio, Italy
1	t	t	Rome, Lazio, Italy
2	t	t	Rome, Lazio, Italy
3	t	t	Rome, Lazio, Italy
4	t	t	Rome, Lazio, Italy

	neighbourhood_cleansed	neighbourhood_group_cleansed	latitude	longitude \
0	VIII Appia Antica	NaN	41.871360	12.482150
1	I Centro Storico	NaN	41.895000	12.491170
2	I Centro Storico	NaN	41.895447	12.491181
3	II Parioli/Nomentano	NaN	41.925820	12.469280
4	XIII Monte Verde	NaN	41.875124	12.466063

	property_type	room_type	accommodates	bathrooms \
0	Private room	Private room	1	1.5
1	Entire rental unit	Entire home/apt	4	1.0
2	Entire rental unit	Entire home/apt	2	1.0
3	Entire rental unit	Entire home/apt	6	1.0
4	Private room in condo	Private room	2	1.0

	bathrooms_text	bedrooms	beds \
0	1.5 baths	1.0	1.0
1	1 bath	1.0	1.0
2	1 bath	1.0	1.0
3	1 bath	2.0	3.0
4	1 private bath	1.0	1.0

	amenities	price	minimum_nights \
0	["Dedicated workspace", "Bidet", "Iron", "Toas...	\$56.00	31
1	["Paid parking off premises", "Dedicated works...	\$140.00	31
2	["Extra pillows and blankets", "Cleaning produ...	\$110.00	2
3	["Dedicated workspace", "Bidet", "Iron", "Toas...	\$97.00	31
4	["Dedicated workspace", "Bidet", "Iron", "Toas...	\$81.00	1

	maximum_nights	minimum_minimum_nights	maximum_minimum_nights \
0	1125	31	31
1	180	31	31
2	28	1	2
3	365	31	31
4	28	1	2

	minimum_maximum_nights	maximum_maximum_nights	minimum_nights_avg_ntm \
0	1125	1125	31.0
1	180	180	31.0
2	28	28	2.0
3	365	365	31.0
4	28	28	1.1

	maximum_nights_avg_ntm	calendar_updated	has_availability	availability_30 \
0	1125.0	NaN	t	30
1	180.0	NaN	t	24
2	28.0	NaN	t	11
3	365.0	NaN	t	30
4	28.0	NaN	t	25

	availability_60	availability_90	availability_365	calendar_last_scraped \
0	60	90	365	05/03/25
1	31	43	303	08/03/25
2	14	26	171	15/03/25
3	48	71	221	06/03/25
4	55	83	258	05/03/25

	number_of_reviews	number_of_reviews_ltm	number_of_reviews_l30d \
0	5	0	0
1	21	0	0
2	268	45	0
3	78	11	0

4	5	5	3
---	---	---	---

	availability_eoy	number_of_reviews_ly	estimated_occupancy_l365d	\
0	302	0	0	
1	237	0	0	
2	98	46	255	
3	177	11	255	
4	258	0	30	

	estimated_revenue_l365d	first_review	last_review	review_scores_rating	\
0	0.0	26/12/14	08/05/15	4.80	
1	0.0	02/01/11	30/04/22	4.53	
2	28050.0	01/05/11	08/01/25	4.86	
3	24735.0	18/10/10	30/10/24	4.90	
4	2430.0	17/01/25	25/02/25	5.00	

	review_scores_accuracy	review_scores_cleanliness	review_scores_checkin	\
0	4.60	4.60	4.80	
1	4.38	4.62	4.71	
2	4.86	4.93	4.98	
3	4.89	4.92	4.93	
4	5.00	5.00	5.00	

	review_scores_communication	review_scores_location	review_scores_value	\
0	5.00	4.40	4.40	
1	4.86	4.81	4.43	
2	4.96	4.99	4.81	
3	5.00	4.87	4.82	
4	5.00	4.80	5.00	

	license	instant_bookable	calculated_host_listings_count	\
0	NaN	f	6	
1	NaN	f	6	
2	IT058091C29VJSIZQZ	f	1	
3	it058091c2kv6epw8f	f	1	
4	IT058091C2P495DNNK	f	5	

	calculated_host_listings_count_entire_homes	\
0	0	
1	6	
2	1	
3	1	
4	1	

	calculated_host_listings_count_private_rooms	\
0	6	
1	0	

2	0
3	0
4	4

	calculated_host_listings_count_shared_rooms	reviews_per_month
0	0	0.04
1	0	0.12
2	0	1.59
3	0	0.45
4	0	3.13

## VALORES NULOS

```
[ ]: #Establecer un nombre específico "Unknown"/"NONE" a todas los valores nulos
      ↪ dentro de las columnas 'description', 'neighborhood_overview', entre otras
df_ROMA["description"] = df_ROMA["description"].fillna("NONE")
df_ROMA["neighborhood_overview"] = df_ROMA["neighborhood_overview"].
      ↪ fillna("NONE")
df_ROMA["host_name"] = df_ROMA["host_name"].fillna("UNKOWN")
df_ROMA["host_since"] = df_ROMA["host_since"].fillna("00/00/00")
df_ROMA["host_location"] = df_ROMA["host_location"].fillna("Rome, Italy")
df_ROMA["host_about"] = df_ROMA["host_about"].fillna("NONE")

display(df_ROMA.isnull().sum())
```

id	0
listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	2184
host_response_rate	2184
host_acceptance_rate	1337
host_is_superhost	493
host_thumbnail_url	7
host_picture_url	7
host_neighbourhood	2482
host_listings_count	7

host_total_listings_count	7
host_verifications	7
host_has_profile_pic	7
host_identity_verified	7
neighbourhood	2357
neighbourhood_cleansed	0
neighbourhood_group_cleansed	10489
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	1642
bathrooms_text	23
bedrooms	406
beds	1643
amenities	0
price	1642
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	272
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642
first_review	714
last_review	714
review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717
review_scores_location	719

```

review_scores_value          718
license                      1628
instant_bookable             0
calculated_host_listings_count  0
calculated_host_listings_count_entire_homes  0
calculated_host_listings_count_private_rooms  0
calculated_host_listings_count_shared_rooms  0
reviews_per_month            714
dtype: int64

```

```

[ ]: ## LLenamos los NAs de la columna de 'host_response_time' con el string más
      ↪repetido; "within an hour"
valor_mas_repetido_response = df_ROMA["host_response_time"].mode()[0]
df_ROMA["host_response_time"] = df_ROMA["host_response_time"].
      ↪fillna(valor_mas_repetido_response)

#Eliminar un signo de columna 'host_response_rate' en dataframe df (copia)
if df_ROMA['host_response_rate'].dtype == 'object':
    df_ROMA['host_response_rate']=df_ROMA['host_response_rate'].str.
      ↪replace('%', '')

#Eliminar un signo de columna 'host_response_rate' en dataframe df (original)
if df['host_response_rate'].dtype == 'object':
    df['host_response_rate']=df['host_response_rate'].str.replace('%', '')

#Conversión de tipo de dato de columna de tipo Object a Float
df_ROMA['host_response_rate']= df_ROMA['host_response_rate'].astype(float)
df['host_response_rate']= df['host_response_rate'].astype(float)

#Sustituir valores nulos con promedio o media en columna 'host_response_rate'
df_ROMA["host_response_rate"]=df_ROMA["host_response_rate"].
      ↪fillna(round(df["host_response_rate"].mean(),1))
display(df_ROMA.isnull().sum())

display(df_ROMA.isnull().sum())

```

```

id          0
listing_url 0
scrape_id   0
last_scraped 0
source      0
name        0
description 0
neighborhood_overview 0
picture_url 0
host_id     0
host_url    0

```

host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	0
host_response_rate	0
host_acceptance_rate	1337
host_is_superhost	493
host_thumbnail_url	7
host_picture_url	7
host_neighbourhood	2482
host_listings_count	7
host_total_listings_count	7
host_verifications	7
host_has_profile_pic	7
host_identity_verified	7
neighbourhood	2357
neighbourhood_cleansed	0
neighbourhood_group_cleansed	10489
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	1642
bathrooms_text	23
bedrooms	406
beds	1643
amenities	0
price	1642
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	272
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0

availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642
first_review	714
last_review	714
review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717
review_scores_location	719
review_scores_value	718
license	1628
instant_bookable	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	714
dtype: int64	
id	0
listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	0
host_response_rate	0
host_acceptance_rate	1337
host_is_superhost	493
host_thumbnail_url	7
host_picture_url	7
host_neighbourhood	2482
host_listings_count	7
host_total_listings_count	7
host_verifications	7
host_has_profile_pic	7



host_identity_verified	7
neighbourhood	2357
neighbourhood_cleansed	0
neighbourhood_group_cleansed	10489
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	1642
bathrooms_text	23
bedrooms	406
beds	1643
amenities	0
price	1642
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	272
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642
first_review	714
last_review	714
review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717
review_scores_location	719
review_scores_value	718
license	1628
instant_bookable	0

calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	714
dtype: int64	

```
[ ]: #Eliminar un signo de columna 'host_acceptance_rate' en dataframe df (copia)
if df_ROMA['host_acceptance_rate'].dtype == 'object':
    df_ROMA['host_acceptance_rate']=df_ROMA['host_acceptance_rate'].str.
    ↪replace('%', '')

#Eliminar un signo de columna 'host_acceptance_rate' en dataframe df (original)
if df['host_acceptance_rate'].dtype == 'object':
    df['host_acceptance_rate']=df['host_acceptance_rate'].str.replace('%', '')

#Conversión de tipo de dato de columna de tipo Object a Float
df_ROMA['host_acceptance_rate']= df_ROMA['host_acceptance_rate'].astype(float)
df['host_acceptance_rate']= df['host_acceptance_rate'].astype(float)

#Sustituir valores nulos con promedio o media en columna 'host_acceptance_rate'
df_ROMA["host_acceptance_rate"]=df_ROMA["host_acceptance_rate"].
    ↪fillna(round(df["host_acceptance_rate"].mean(),1))
display(df_ROMA.isnull().sum())
```

id	0
listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	0
host_response_rate	0
host_acceptance_rate	0
host_is_superhost	493
host_thumbnail_url	7
host_picture_url	7
host_neighbourhood	2482
host_listings_count	7

host_total_listings_count	7
host_verifications	7
host_has_profile_pic	7
host_identity_verified	7
neighbourhood	2357
neighbourhood_cleansed	0
neighbourhood_group_cleansed	10489
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	1642
bathrooms_text	23
bedrooms	406
beds	1643
amenities	0
price	1642
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	272
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642
first_review	714
last_review	714
review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717
review_scores_location	719

```

review_scores_value          718
license                      1628
instant_bookable              0
calculated_host_listings_count  0
calculated_host_listings_count_entire_homes  0
calculated_host_listings_count_private_rooms  0
calculated_host_listings_count_shared_rooms  0
reviews_per_month            714
dtype: int64

```

```

[ ]: #Agregar nueva categoría 'NONE' a celdas vacías dentro de columna
      ↪ 'host_is_superhost' y 'host_identity_verified'
df_ROMA["host_is_superhost"] = df_ROMA["host_is_superhost"].fillna("000")
df_ROMA["host_thumbnail_url"] = df_ROMA["host_thumbnail_url"].fillna("UNKNOWN")
df_ROMA["host_picture_url"] = df_ROMA["host_picture_url"].fillna("UNKNOWN")
df_ROMA["host_neighbourhood"] = df_ROMA["host_neighbourhood"].fillna("UNKNOWN")
df_ROMA["host_verifications"] = df_ROMA["host_verifications"].fillna("NONE")
df_ROMA["host_has_profile_pic"] = df_ROMA["host_has_profile_pic"].fillna("NONE")
df_ROMA["host_identity_verified"] = df_ROMA["host_identity_verified"].
      ↪ fillna("NONE")

display(df_ROMA.isnull().sum())

```

```

id                            0
listing_url                    0
scrape_id                      0
last_scraped                   0
source                         0
name                           0
description                     0
neighborhood_overview          0
picture_url                    0
host_id                        0
host_url                       0
host_name                      0
host_since                     0
host_location                   0
host_about                     0
host_response_time              0
host_response_rate              0
host_acceptance_rate           0
host_is_superhost              0
host_thumbnail_url             0
host_picture_url               0
host_neighbourhood             0
host_listings_count            7
host_total_listings_count      7
host_verifications             0

```

host_has_profile_pic	0
host_identity_verified	0
neighbourhood	2357
neighbourhood_cleansed	0
neighbourhood_group_cleansed	10489
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	1642
bathrooms_text	23
bedrooms	406
beds	1643
amenities	0
price	1642
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	272
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642
first_review	714
last_review	714
review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717
review_scores_location	719
review_scores_value	718
license	1628

instant_bookable	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	714
dtype: int64	

```
[ ]: # Calculate the median for 'host_listings_count' and 'host_total_listings_count'
median_host_listings_count = df_ROMA['host_listings_count'].median()
median_host_total_listings_count = df_ROMA['host_total_listings_count'].median()

# Fill missing values with the calculated medians
df_ROMA['host_listings_count'] = df_ROMA['host_listings_count'].
    ↪fillna(median_host_listings_count)
df_ROMA['host_total_listings_count'] = df_ROMA['host_total_listings_count'].
    ↪fillna(median_host_total_listings_count)

## Llenamos los NAs de la columna de 'neighbourhood' con el vecindario más
    ↪repetido; "Rome, Lazio, Italy"
valor_mas_repetido_response = df_ROMA["neighbourhood"].mode()[0]
print("El valor más repetido es:", valor_mas_repetido_response)

df_ROMA["neighbourhood"] = df_ROMA["neighbourhood"].
    ↪fillna(valor_mas_repetido_response)

# Display the null value counts to verify
display(df_ROMA.isnull().sum())
```

El valor más repetido es: Rome, Lazio, Italy

id	0
listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	0
host_response_rate	0

host_acceptance_rate	0
host_is_superhost	0
host_thumbnail_url	0
host_picture_url	0
host_neighbourhood	0
host_listings_count	0
host_total_listings_count	0
host_verifications	0
host_has_profile_pic	0
host_identity_verified	0
neighbourhood	0
neighbourhood_cleansed	0
neighbourhood_group_cleansed	10489
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	1642
bathrooms_text	23
bedrooms	406
beds	1643
amenities	0
price	1642
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	272
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642
first_review	714
last_review	714

review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717
review_scores_location	719
review_scores_value	718
license	1628
instant_bookable	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	714
dtype: int64	

```
[ ]: df_ROMA = df_ROMA.drop('neighbourhood_group_cleansed', axis=1)
display(df_ROMA.isnull().sum())
```

id	0
listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	0
host_response_rate	0
host_acceptance_rate	0
host_is_superhost	0
host_thumbnail_url	0
host_picture_url	0
host_neighbourhood	0
host_listings_count	0
host_total_listings_count	0
host_verifications	0
host_has_profile_pic	0
host_identity_verified	0
neighbourhood	0
neighbourhood_cleansed	0



latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	1642
bathrooms_text	23
bedrooms	406
beds	1643
amenities	0
price	1642
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	272
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642
first_review	714
last_review	714
review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717
review_scores_location	719
review_scores_value	718
license	1628
instant_bookable	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0

```
reviews_per_month
dtype: int64
```

714

```
[ ]: #Establecer con mediana NAs de la columna 'bedrooms', 'bathrooms' y 'beds'
df_ROMA["bathrooms"]=df_ROMA["bathrooms"].fillna(round(df["bathrooms"].
↳median(),1))
df_ROMA["bedrooms"]=df_ROMA["bedrooms"].fillna(round(df["bedrooms"].median(),1))
df_ROMA["beds"]=df_ROMA["beds"].fillna(round(df["beds"].median(),1))

#Agregar nueva categoría 'NONE' a celdas vacías dentro de columna↳
↳'bathrooms_text '
df_ROMA["bathrooms_text"] = df_ROMA["bathrooms_text"].fillna("NONE")

display(df_ROMA.isnull().sum())
```

id	0
listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	0
host_response_rate	0
host_acceptance_rate	0
host_is_superhost	0
host_thumbnail_url	0
host_picture_url	0
host_neighbourhood	0
host_listings_count	0
host_total_listings_count	0
host_verifications	0
host_has_profile_pic	0
host_identity_verified	0
neighbourhood	0
neighbourhood_cleansed	0
latitude	0
longitude	0

property_type	0
room_type	0
accommodates	0
bathrooms	0
bathrooms_text	0
bedrooms	0
beds	0
amenities	0
price	1642
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	272
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642
first_review	714
last_review	714
review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717
review_scores_location	719
review_scores_value	718
license	1628
instant_bookable	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	714
dtype: int64	

```
[ ]: # Convertir la columna 'price' a numérica (eliminando símbolos de $ y comas)
df_ROMA["price"] = df["price"].replace('\[$,]', '', regex=True).astype(float)

# Calcular el promedio de precio por tipo de cuarto
promedios = df_ROMA.groupby("room_type")["price"].mean()
promedios

# Rellenar los NaN en 'price' con el promedio del room_type correspondiente
df_ROMA["price"] = df_ROMA.apply(
    lambda row: promedios[row["room_type"]] if pd.isna(row["price"]) else
    ↪row["price"], axis=1)
```

```
<>:2: SyntaxWarning: invalid escape sequence '\$'
<>:2: SyntaxWarning: invalid escape sequence '\$'
/tmp/ipython-input-2308974913.py:2: SyntaxWarning: invalid escape sequence '\$'
df_ROMA["price"] = df["price"].replace('\[$,]', '', regex=True).astype(float)
```

```
[ ]: columns_to_fill = [
    'minimum_nights',
    'maximum_nights',
    'minimum_minimum_nights',
    'maximum_minimum_nights',
    'minimum_maximum_nights',
    'maximum_maximum_nights',
    'minimum_nights_avg_ntm',
    'maximum_nights_avg_ntm'
]

for col in columns_to_fill:
    median_value = df_ROMA[col].median()
    df_ROMA[col] = df_ROMA[col].fillna(median_value)

display(df_ROMA.isnull().sum())
```

id	0
listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0

host_about	0
host_response_time	0
host_response_rate	0
host_acceptance_rate	0
host_is_superhost	0
host_thumbnail_url	0
host_picture_url	0
host_neighbourhood	0
host_listings_count	0
host_total_listings_count	0
host_verifications	0
host_has_profile_pic	0
host_identity_verified	0
neighbourhood	0
neighbourhood_cleansed	0
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	0
bathrooms_text	0
bedrooms	0
beds	0
amenities	0
price	0
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	272
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642

first_review	714
last_review	714
review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717
review_scores_location	719
review_scores_value	718
license	1628
instant_bookable	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	714
dtype:	int64

```
[ ]: # Calculate the mode for 'has_availability'
mode_has_availability = df_ROMA['has_availability'].mode()[0]

# Fill missing values with the calculated mode
df_ROMA['has_availability'] = df_ROMA['has_availability'].
    ↪ fillna(mode_has_availability)

display(df_ROMA.isnull().sum())
```

id	0
listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	0
host_response_rate	0
host_acceptance_rate	0
host_is_superhost	0
host_thumbnail_url	0
host_picture_url	0

host_neighbourhood	0
host_listings_count	0
host_total_listings_count	0
host_verifications	0
host_has_profile_pic	0
host_identity_verified	0
neighbourhood	0
neighbourhood_cleansed	0
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	0
bathrooms_text	0
bedrooms	0
beds	0
amenities	0
price	0
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	0
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	1642
first_review	714
last_review	714
review_scores_rating	714
review_scores_accuracy	718
review_scores_cleanliness	717
review_scores_checkin	718
review_scores_communication	717

```

review_scores_location      719
review_scores_value          718
license                     1628
instant_bookable             0
calculated_host_listings_count      0
calculated_host_listings_count_entire_homes      0
calculated_host_listings_count_private_rooms      0
calculated_host_listings_count_shared_rooms      0
reviews_per_month            714
dtype: int64

```

```

[ ]: # Calculate the median for 'estimated_revenue_l365d'
median_estimated_revenue = df_ROMA['estimated_revenue_l365d'].median()

# Fill missing values with the calculated median
df_ROMA['estimated_revenue_l365d'] = df_ROMA['estimated_revenue_l365d'].
    ↪ fillna(median_estimated_revenue)

# Establecer un código de fecha para first y last_review
df_ROMA["first_review"] = df_ROMA["first_review"].fillna("00/00/00")
df_ROMA["last_review"] = df_ROMA["last_review"].fillna("00/00/00")

# Establecer con 0 todos los valores que no cuentan con un review dentro este
    ↪ tipo de variables el dataframe
df_ROMA['reviews_per_month'] = df_ROMA['reviews_per_month'].fillna(0)
df_ROMA['review_scores_rating'] = df_ROMA['review_scores_rating'].fillna(0)
df_ROMA['review_scores_accuracy'] = df_ROMA['review_scores_accuracy'].fillna(0)
df_ROMA['review_scores_cleanliness'] = df_ROMA['review_scores_cleanliness'].
    ↪ fillna(0)
df_ROMA['review_scores_checkin'] = df_ROMA['review_scores_checkin'].fillna(0)
df_ROMA['review_scores_communication'] = df_ROMA['review_scores_communication'].
    ↪ fillna(0)
df_ROMA['review_scores_location'] = df_ROMA['review_scores_location'].fillna(0)
df_ROMA['review_scores_value'] = df_ROMA['review_scores_value'].fillna(0)

# Establecer una valor "UNKNOWN" a todas los valores nulos dentro de la columna
    ↪ 'license'
df_ROMA["license"] = df_ROMA["license"].fillna("UNKNOWN")

display(df_ROMA.isnull().sum())

```

```

id      0
listing_url      0
scrape_id      0
last_scraped      0
source      0
name      0

```



description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	0
host_response_rate	0
host_acceptance_rate	0
host_is_superhost	0
host_thumbnail_url	0
host_picture_url	0
host_neighbourhood	0
host_listings_count	0
host_total_listings_count	0
host_verifications	0
host_has_profile_pic	0
host_identity_verified	0
neighbourhood	0
neighbourhood_cleansed	0
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	0
bathrooms_text	0
bedrooms	0
beds	0
amenities	0
price	0
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
calendar_updated	10489
has_availability	0
availability_30	0
availability_60	0
availability_90	0
availability_365	0

calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	0
first_review	0
last_review	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
license	0
instant_bookable	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	0
dtype: int64	

```
[ ]: df_ROMA = df_ROMA.drop('calendar_updated', axis=1)
      display(df_ROMA.isnull().sum())
```

id	0
listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	0
host_response_rate	0
host_acceptance_rate	0
host_is_superhost	0

host_thumbnail_url	0
host_picture_url	0
host_neighbourhood	0
host_listings_count	0
host_total_listings_count	0
host_verifications	0
host_has_profile_pic	0
host_identity_verified	0
neighbourhood	0
neighbourhood_cleansed	0
latitude	0
longitude	0
property_type	0
room_type	0
accommodates	0
bathrooms	0
bathrooms_text	0
bedrooms	0
beds	0
amenities	0
price	0
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
has_availability	0
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	0
first_review	0
last_review	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
license	0
instant_bookable	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	0
dtype: int64	

```
[ ]: DF_ROMA = df_ROMA
      DF_ROMA

      display(DF_ROMA.isnull().sum())
```

id	0
listing_url	0
scrape_id	0
last_scraped	0
source	0
name	0
description	0
neighborhood_overview	0
picture_url	0
host_id	0
host_url	0
host_name	0
host_since	0
host_location	0
host_about	0
host_response_time	0
host_response_rate	0
host_acceptance_rate	0
host_is_superhost	0
host_thumbnail_url	0
host_picture_url	0
host_neighbourhood	0
host_listings_count	0
host_total_listings_count	0
host_verifications	0
host_has_profile_pic	0
host_identity_verified	0
neighbourhood	0
neighbourhood_cleansed	0
latitude	0
longitude	0

property_type	0
room_type	0
accommodates	0
bathrooms	0
bathrooms_text	0
bedrooms	0
beds	0
amenities	0
price	0
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
has_availability	0
availability_30	0
availability_60	0
availability_90	0
availability_365	0
calendar_last_scraped	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	0
first_review	0
last_review	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
license	0
instant_bookable	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	0
dtype: int64	

## VALORES ATÍPICOS

### 0.1 Identify column data types

#### 0.1.1 Subtask:

Determine the data type of each column in the DF\_ROMA DataFrame.

```
[ ]: DF_ROMA.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10489 entries, 0 to 10488
Data columns (total 77 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   id                                     10489 non-null  float64
1   listing_url                           10489 non-null  object
2   scrape_id                             10489 non-null  float64
3   last_scraped                           10489 non-null  object
4   source                                10489 non-null  object
5   name                                   10489 non-null  object
6   description                             10489 non-null  object
7   neighborhood_overview                  10489 non-null  object
8   picture_url                            10489 non-null  object
9   host_id                                10489 non-null  int64
10  host_url                               10489 non-null  object
11  host_name                              10489 non-null  object
12  host_since                             10489 non-null  object
13  host_location                           10489 non-null  object
14  host_about                             10489 non-null  object
15  host_response_time                     10489 non-null  object
16  host_response_rate                     10489 non-null  float64
17  host_acceptance_rate                   10489 non-null  float64
18  host_is_superhost                      10489 non-null  object
19  host_thumbnail_url                     10489 non-null  object
20  host_picture_url                       10489 non-null  object
21  host_neighbourhood                     10489 non-null  object
22  host_listings_count                    10489 non-null  float64
23  host_total_listings_count              10489 non-null  float64
24  host_verifications                     10489 non-null  object
25  host_has_profile_pic                   10489 non-null  object
26  host_identity_verified                 10489 non-null  object
27  neighbourhooood                       10489 non-null  object
28  neighbourhooood_cleansed               10489 non-null  object
29  latitude                               10489 non-null  float64
30  longitude                              10489 non-null  float64
31  property_type                          10489 non-null  object
32  room_type                              10489 non-null  object
33  accommodates                           10489 non-null  int64
```

34	bathrooms	10489	non-null	float64
35	bathrooms_text	10489	non-null	object
36	bedrooms	10489	non-null	float64
37	beds	10489	non-null	float64
38	amenities	10489	non-null	object
39	price	10489	non-null	float64
40	minimum_nights	10489	non-null	int64
41	maximum_nights	10489	non-null	int64
42	minimum_minimum_nights	10489	non-null	int64
43	maximum_minimum_nights	10489	non-null	int64
44	minimum_maximum_nights	10489	non-null	int64
45	maximum_maximum_nights	10489	non-null	int64
46	minimum_nights_avg_ntm	10489	non-null	float64
47	maximum_nights_avg_ntm	10489	non-null	float64
48	has_availability	10489	non-null	object
49	availability_30	10489	non-null	int64
50	availability_60	10489	non-null	int64
51	availability_90	10489	non-null	int64
52	availability_365	10489	non-null	int64
53	calendar_last_scraped	10489	non-null	object
54	number_of_reviews	10489	non-null	int64
55	number_of_reviews_ltm	10489	non-null	int64
56	number_of_reviews_l30d	10489	non-null	int64
57	availability_eoy	10489	non-null	int64
58	number_of_reviews_ly	10489	non-null	int64
59	estimated_occupancy_l365d	10489	non-null	int64
60	estimated_revenue_l365d	10489	non-null	float64
61	first_review	10489	non-null	object
62	last_review	10489	non-null	object
63	review_scores_rating	10489	non-null	float64
64	review_scores_accuracy	10489	non-null	float64
65	review_scores_cleanliness	10489	non-null	float64
66	review_scores_checkin	10489	non-null	float64
67	review_scores_communication	10489	non-null	float64
68	review_scores_location	10489	non-null	float64
69	review_scores_value	10489	non-null	float64
70	license	10489	non-null	object
71	instant_bookable	10489	non-null	object
72	calculated_host_listings_count	10489	non-null	int64
73	calculated_host_listings_count_entire_homes	10489	non-null	int64
74	calculated_host_listings_count_private_rooms	10489	non-null	int64
75	calculated_host_listings_count_shared_rooms	10489	non-null	int64
76	reviews_per_month	10489	non-null	float64

dtypes: float64(23), int64(22), object(32)

memory usage: 6.2+ MB

## 0.2 Categorize columns

### 0.2.1 Subtask:

Based on the data types and the user's instructions (including percentage, Likert scale, latitude, and longitude in the qualitative DataFrame), categorize each column as either qualitative or quantitative.

```
[ ]: # Qualitative columns based on data type and user instructions (percentage, Likert, lat, lon)
qualitative_columns = [
    'id',
    'scrape_id',
    'host_id',
    'listing_url',
    'last_scraped',
    'source',
    'name',
    'description',
    'neighborhood_overview',
    'picture_url',
    'host_url',
    'host_name',
    'host_since',
    'host_location',
    'host_about',
    'host_response_time',
    'host_is_superhost',
    'host_thumbnail_url',
    'host_picture_url',
    'host_neighbourhood',
    'host_verifications',
    'host_has_profile_pic',
    'host_identity_verified',
    'neighbourhood',
    'neighbourhood_cleansed',
    'property_type',
    'room_type',
    'bathrooms_text',
    'amenities',
    'has_availability',
    'calendar_last_scraped',
    'first_review',
    'last_review',
    'license',
    'instant_bookable',
    'latitude', # As per user instruction
    'longitude', # As per user instruction
```



```

'host_response_rate', # Percentage as per user instruction
'host_acceptance_rate', # Percentage as per user instruction
'review_scores_rating', # Likert scale as per user instruction
'review_scores_accuracy', # Likert scale as per user instruction
'review_scores_cleanliness', # Likert scale as per user instruction
'review_scores_checkin', # Likert scale as per user instruction
'review_scores_communication', # Likert scale as per user instruction
'review_scores_location', # Likert scale as per user instruction
'review_scores_value', # Likert scale as per user instruction
'bathrooms'

]

# Quantitative columns (numerical and not specified as qualitative)
quantitative_columns = [
    'host_listings_count',
    'host_total_listings_count',
    'accommodates',
    'bedrooms',
    'beds',
    'price',
    'minimum_nights',
    'maximum_nights',
    'minimum_minimum_nights',
    'maximum_minimum_nights',
    'minimum_maximum_nights',
    'maximum_maximum_nights',
    'minimum_nights_avg_ntm',
    'maximum_nights_avg_ntm',
    'availability_30',
    'availability_60',
    'availability_90',
    'availability_365',
    'number_of_reviews',
    'number_of_reviews_ltm',
    'number_of_reviews_l30d',
    'availability_eoy',
    'number_of_reviews_ly',
    'estimated_occupancy_l365d',
    'estimated_revenue_l365d',
    'calculated_host_listings_count',
    'calculated_host_listings_count_entire_homes',
    'calculated_host_listings_count_private_rooms',
    'calculated_host_listings_count_shared_rooms',
    'reviews_per_month'
]

```

```

# Verify that all columns are in one of the lists and there's no overlap
all_columns = set(DF_ROMA.columns)
qualitative_set = set(qualitative_columns)
quantitative_set = set(quantitative_columns)

if all_columns == (qualitative_set.union(quantitative_set)) and qualitative_set.
↳intersection(quantitative_set) == set():
    print("Column categorization successful and complete.")
else:
    print("Column categorization failed. Some columns are missing or_
↳overlapping.")
    print("Missing columns:", all_columns - (qualitative_set.
↳union(quantitative_set)))
    print("Overlapping columns:", qualitative_set.
↳intersection(quantitative_set))

```

Column categorization successful and complete.

## 0.3 Create qualitative dataframe

### 0.3.1 Subtask:

Create a new DataFrame containing only the columns identified as qualitative.

```

[ ]: df_qualitative = DF_ROMA[qualitative_columns].copy()
display(df_qualitative.head())

```

	id	scrape_id	host_id \
0	2.737000e+03	2.030000e+13	3047
1	3.079000e+03	2.030000e+13	3504
2	1.183400e+04	2.030000e+13	44552
3	1.239800e+04	2.030000e+13	11756
4	1.210000e+18	2.030000e+13	590573096

	listing_url	last_scraped	source \
0	https://www.airbnb.com/rooms/2737	05/03/25	city scrape
1	https://www.airbnb.com/rooms/3079	08/03/25	city scrape
2	https://www.airbnb.com/rooms/11834	15/03/25	city scrape
3	https://www.airbnb.com/rooms/12398	06/03/25	city scrape
4	https://www.airbnb.com/rooms/1211500232171693714	05/03/25	city scrape

	name \
0	Elif's room in cozy, clean flat.
1	Cozy apartment (2-4)with Colisseum view
2	Charming Boschetto Studio, Rome
3	Casa Donatello - Home far from Home
4	La Quercia Nera - Trastevere - Centro di Roma

	description \
0	10 min by bus you can get to Piazza Venezia or...
1	With the view of the Colisseum from the front ...
2	Fantastic apartment in the Monti district. Th...
3	Casa Donatello is a newly renovated two-bedroo...
4	Discover the charm of Rome by staying in our n...

	neighborhood_overview \
0	It used to be an industrial area until late 80...
1	Monti neighborhood is one of the best areas in...
2	"Monti" with its narrow cobblestone alleys, cr...
3	You are at 15 minutes walking distance from hi...
4	You will appreciate the proximity to Trastever...

	picture_url \
0	<a href="https://a0.muscache.com/pictures/41225252/e955...">https://a0.muscache.com/pictures/41225252/e955...</a>
1	<a href="https://a0.muscache.com/pictures/miso/Hosting-...">https://a0.muscache.com/pictures/miso/Hosting-...</a>
2	<a href="https://a0.muscache.com/pictures/miso/Hosting-...">https://a0.muscache.com/pictures/miso/Hosting-...</a>
3	<a href="https://a0.muscache.com/pictures/miso/Hosting-...">https://a0.muscache.com/pictures/miso/Hosting-...</a>
4	<a href="https://a0.muscache.com/pictures/hosting/Hosti...">https://a0.muscache.com/pictures/hosting/Hosti...</a>

	host_url	host_name	host_since \
0	<a href="https://www.airbnb.com/users/show/3047">https://www.airbnb.com/users/show/3047</a>	Elif	18/09/08
1	<a href="https://www.airbnb.com/users/show/3504">https://www.airbnb.com/users/show/3504</a>	Laura	08/10/08
2	<a href="https://www.airbnb.com/users/show/44552">https://www.airbnb.com/users/show/44552</a>	Serena	09/10/09
3	<a href="https://www.airbnb.com/users/show/11756">https://www.airbnb.com/users/show/11756</a>	Gea	30/03/09
4	<a href="https://www.airbnb.com/users/show/590573096">https://www.airbnb.com/users/show/590573096</a>	Mario	18/07/24

	host_location	host_about \
0	Rome, Italy	I am a Turkish-Italian who was born in Istanbul...
1	Rome, Italy	I've a degree in Art History\r\n
2	Rome, Italy	Hello I'm Serena I was born and live in Rome, ...
3	Rome, Italy	Hello to everybody,\r\nIt will be a pleasure t...
4	Rome, Italy	NONE

	host_response_time	host_is_superhost \
0	within a few hours	f
1	within a day	f
2	within a few hours	t
3	within an hour	t
4	within an hour	t

	host_thumbnail_url \
0	<a href="https://a0.muscache.com/im/pictures/user/User/...">https://a0.muscache.com/im/pictures/user/User/...</a>
1	<a href="https://a0.muscache.com/im/users/3504/profile_...">https://a0.muscache.com/im/users/3504/profile_...</a>
2	<a href="https://a0.muscache.com/im/users/44552/profile...">https://a0.muscache.com/im/users/44552/profile...</a>
3	<a href="https://a0.muscache.com/im/users/11756/profile...">https://a0.muscache.com/im/users/11756/profile...</a>
4	<a href="https://a0.muscache.com/im/pictures/user/User/...">https://a0.muscache.com/im/pictures/user/User/...</a>

	host_picture_url	host_neighbourhood	\
0	https://a0.muscache.com/im/pictures/user/User/...	Testaccio	
1	https://a0.muscache.com/im/users/3504/profile_...	Monti	
2	https://a0.muscache.com/im/users/44552/profile...	Monti	
3	https://a0.muscache.com/im/users/11756/profile...	Flaminio	
4	https://a0.muscache.com/im/pictures/user/User/...	UNKNOWN	

	host_verifications	host_has_profile_pic	host_identity_verified	\
0	['email', 'phone']	t	t	
1	['email', 'phone']	t	t	
2	['email', 'phone']	t	t	
3	['email', 'phone']	t	t	
4	['email', 'phone']	t	t	

	neighbourhood	neighbourhood_cleansed	property_type	\
0	Rome, Lazio, Italy	VIII Appia Antica	Private room	
1	Rome, Lazio, Italy	I Centro Storico	Entire rental unit	
2	Rome, Lazio, Italy	I Centro Storico	Entire rental unit	
3	Rome, Lazio, Italy	II Parioli/Nomentano	Entire rental unit	
4	Rome, Lazio, Italy	XII Monte Verde	Private room in condo	

	room_type	bathrooms_text	\
0	Private room	1.5 baths	
1	Entire home/apt	1 bath	
2	Entire home/apt	1 bath	
3	Entire home/apt	1 bath	
4	Private room	1 private bath	

	amenities	has_availability	\
0	["Dedicated workspace", "Bidet", "Iron", "Toas...	t	
1	["Paid parking off premises", "Dedicated works...	t	
2	["Extra pillows and blankets", "Cleaning produ...	t	
3	["Dedicated workspace", "Bidet", "Iron", "Toas...	t	
4	["Dedicated workspace", "Bidet", "Iron", "Toas...	t	

	calendar_last_scraped	first_review	last_review	license	\
0	05/03/25	26/12/14	08/05/15	UNKNOWN	
1	08/03/25	02/01/11	30/04/22	UNKNOWN	
2	15/03/25	01/05/11	08/01/25	IT058091C29VJSIZQZ	
3	06/03/25	18/10/10	30/10/24	it058091c2kv6epw8f	
4	05/03/25	17/01/25	25/02/25	IT058091C2P495DNNK	

	instant_bookable	latitude	longitude	host_response_rate	\
0	f	41.871360	12.482150	100.0	
1	f	41.895000	12.491170	100.0	
2	f	41.895447	12.491181	100.0	
3	f	41.925820	12.469280	100.0	

```

4          f  41.875124  12.466063          100.0

    host_acceptance_rate  review_scores_rating  review_scores_accuracy \
0          0.0          4.80          4.60
1          0.0          4.53          4.38
2          98.0          4.86          4.86
3          96.0          4.90          4.89
4          100.0          5.00          5.00

    review_scores_cleanliness  review_scores_checkin \
0          4.60          4.80
1          4.62          4.71
2          4.93          4.98
3          4.92          4.93
4          5.00          5.00

    review_scores_communication  review_scores_location  review_scores_value \
0          5.00          4.40          4.40
1          4.86          4.81          4.43
2          4.96          4.99          4.81
3          5.00          4.87          4.82
4          5.00          4.80          5.00

    bathrooms
0          1.5
1          1.0
2          1.0
3          1.0
4          1.0

```

## 0.4 Create quantitative dataframe

### 0.4.1 Subtask:

Create a new DataFrame containing only the columns identified as quantitative.

```
[ ]: df_quantitative = DF_ROMA[quantitative_columns].copy()
display(df_quantitative.head())
```

```

    host_listings_count  host_total_listings_count  accommodates  bedrooms \
0          7.0          7.0          1          1.0
1          6.0          11.0          4          1.0
2          1.0          2.0          2          1.0
3          1.0          2.0          6          2.0
4          5.0          5.0          2          1.0

    beds  price  minimum_nights  maximum_nights  minimum_minimum_nights \
0  1.0  56.0          31          1125          31
1  1.0  140.0          31          180          31

```

2	1.0	110.0	2	28	1
3	3.0	97.0	31	365	31
4	1.0	81.0	1	28	1

	maximum_minimum_nights	minimum_maximum_nights	maximum_maximum_nights	\
0	31	1125	1125	
1	31	180	180	
2	2	28	28	
3	31	365	365	
4	2	28	28	

	minimum_nights_avg_ntm	maximum_nights_avg_ntm	availability_30	\
0	31.0	1125.0	30	
1	31.0	180.0	24	
2	2.0	28.0	11	
3	31.0	365.0	30	
4	1.1	28.0	25	

	availability_60	availability_90	availability_365	number_of_reviews	\
0	60	90	365	5	
1	31	43	303	21	
2	14	26	171	268	
3	48	71	221	78	
4	55	83	258	5	

	number_of_reviews_ltm	number_of_reviews_l30d	availability_eoy	\
0	0	0	302	
1	0	0	237	
2	45	0	98	
3	11	0	177	
4	5	3	258	

	number_of_reviews_ly	estimated_occupancy_l365d	estimated_revenue_l365d	\
0	0	0	0.0	
1	0	0	0.0	
2	46	255	28050.0	
3	11	255	24735.0	
4	0	30	2430.0	

	calculated_host_listings_count	\
0	6	
1	6	
2	1	
3	1	
4	5	

	calculated_host_listings_count_entire_homes	\
0	0	

1	6
2	1
3	1
4	1

	calculated_host_listings_count_private_rooms \
0	6
1	0
2	0
3	0
4	4

	calculated_host_listings_count_shared_rooms	reviews_per_month
0	0	0.04
1	0	0.12
2	0	1.59
3	0	0.45
4	0	3.13

```
[ ]: display(df_qualitative.head())
display(df_quantitative.head())
```

	id	scrape_id	host_id \
0	2.737000e+03	2.030000e+13	3047
1	3.079000e+03	2.030000e+13	3504
2	1.183400e+04	2.030000e+13	44552
3	1.239800e+04	2.030000e+13	11756
4	1.210000e+18	2.030000e+13	590573096

	listing_url	last_scraped	source \
0	https://www.airbnb.com/rooms/2737	05/03/25	city scrape
1	https://www.airbnb.com/rooms/3079	08/03/25	city scrape
2	https://www.airbnb.com/rooms/11834	15/03/25	city scrape
3	https://www.airbnb.com/rooms/12398	06/03/25	city scrape
4	https://www.airbnb.com/rooms/1211500232171693714	05/03/25	city scrape

	name \
0	Elif's room in cozy, clean flat.
1	Cozy apartment (2-4)with Colisseum view
2	Charming Boschetto Studio, Rome
3	Casa Donatello - Home far from Home
4	La Quercia Nera - Trastevere - Centro di Roma

	description \
0	10 min by bus you can get to Piazza Venezia or...
1	With the view of the Colisseum from the front ...
2	Fantastic apartment in the Monti district. Th...
3	Casa Donatello is a newly renovated two-bedroo...

```

4 Discover the charm of Rome by staying in our n...

neighborhood_overview \
0 It used to be an industrial area until late 80...
1 Monti neighborhood is one of the best areas in...
2 "Monti" with its narrow cobblestone alleys, cr...
3 You are at 15 minutes walking distance from hi...
4 You will appreciate the proximity to Trastever...

picture_url \
0 https://a0.muscache.com/pictures/41225252/e955...
1 https://a0.muscache.com/pictures/miso/Hosting-...
2 https://a0.muscache.com/pictures/miso/Hosting-...
3 https://a0.muscache.com/pictures/miso/Hosting-...
4 https://a0.muscache.com/pictures/hosting/Hosti...

host_url host_name host_since \
0 https://www.airbnb.com/users/show/3047 Elif 18/09/08
1 https://www.airbnb.com/users/show/3504 Laura 08/10/08
2 https://www.airbnb.com/users/show/44552 Serena 09/10/09
3 https://www.airbnb.com/users/show/11756 Gea 30/03/09
4 https://www.airbnb.com/users/show/590573096 Mario 18/07/24

host_location host_about \
0 Rome, Italy I am a Turkish-Italian who was born in Istanbul...
1 Rome, Italy I've a degree in Art History\r\n
2 Rome, Italy Hello I'm Serena I was born and live in Rome, ...
3 Rome, Italy Hello to everybody,\r\nIt will be a pleasure t...
4 Rome, Italy NONE

host_response_time host_is_superhost \
0 within a few hours f
1 within a day f
2 within a few hours t
3 within an hour t
4 within an hour t

host_thumbnail_url \
0 https://a0.muscache.com/im/pictures/user/User/...
1 https://a0.muscache.com/im/users/3504/profile_...
2 https://a0.muscache.com/im/users/44552/profile...
3 https://a0.muscache.com/im/users/11756/profile...
4 https://a0.muscache.com/im/pictures/user/User/...

host_picture_url host_neighbourhood \
0 https://a0.muscache.com/im/pictures/user/User/... Testaccio
1 https://a0.muscache.com/im/users/3504/profile_... Monti
2 https://a0.muscache.com/im/users/44552/profile... Monti

```



3	<a href="https://a0.muscache.com/im/users/11756/profile...">https://a0.muscache.com/im/users/11756/profile...</a>	Flaminio
4	<a href="https://a0.muscache.com/im/pictures/user/User/...">https://a0.muscache.com/im/pictures/user/User/...</a>	UNKNOWN

	host_verifications	host_has_profile_pic	host_identity_verified	\
0	['email', 'phone']	t	t	
1	['email', 'phone']	t	t	
2	['email', 'phone']	t	t	
3	['email', 'phone']	t	t	
4	['email', 'phone']	t	t	

	neighbourhood	neighbourhood_cleansed	property_type	\
0	Rome, Lazio, Italy	VIII Appia Antica	Private room	
1	Rome, Lazio, Italy	I Centro Storico	Entire rental unit	
2	Rome, Lazio, Italy	I Centro Storico	Entire rental unit	
3	Rome, Lazio, Italy	II Parioli/Nomentano	Entire rental unit	
4	Rome, Lazio, Italy	XII Monte Verde	Private room in condo	

	room_type	bathrooms_text	\
0	Private room	1.5 baths	
1	Entire home/apt	1 bath	
2	Entire home/apt	1 bath	
3	Entire home/apt	1 bath	
4	Private room	1 private bath	

	amenities	has_availability	\
0	["Dedicated workspace", "Bidet", "Iron", "Toas...]	t	
1	["Paid parking off premises", "Dedicated works..."]	t	
2	["Extra pillows and blankets", "Cleaning produ..."]	t	
3	["Dedicated workspace", "Bidet", "Iron", "Toas..."]	t	
4	["Dedicated workspace", "Bidet", "Iron", "Toas..."]	t	

	calendar_last_scraped	first_review	last_review	license	\
0	05/03/25	26/12/14	08/05/15	UNKNOWN	
1	08/03/25	02/01/11	30/04/22	UNKNOWN	
2	15/03/25	01/05/11	08/01/25	IT058091C29VJSIZQZ	
3	06/03/25	18/10/10	30/10/24	it058091c2kv6epw8f	
4	05/03/25	17/01/25	25/02/25	IT058091C2P495DNNK	

	instant_bookable	latitude	longitude	host_response_rate	\
0	f	41.871360	12.482150	100.0	
1	f	41.895000	12.491170	100.0	
2	f	41.895447	12.491181	100.0	
3	f	41.925820	12.469280	100.0	
4	f	41.875124	12.466063	100.0	

	host_acceptance_rate	review_scores_rating	review_scores_accuracy	\
0	0.0	4.80	4.60	
1	0.0	4.53	4.38	

2	98.0	4.86	4.86
3	96.0	4.90	4.89
4	100.0	5.00	5.00

	review_scores_cleanliness	review_scores_checkin \
0	4.60	4.80
1	4.62	4.71
2	4.93	4.98
3	4.92	4.93
4	5.00	5.00

	review_scores_communication	review_scores_location	review_scores_value \
0	5.00	4.40	4.40
1	4.86	4.81	4.43
2	4.96	4.99	4.81
3	5.00	4.87	4.82
4	5.00	4.80	5.00

	bathrooms
0	1.5
1	1.0
2	1.0
3	1.0
4	1.0

	host_listings_count	host_total_listings_count	accommodates	bedrooms \
0	7.0	7.0	1	1.0
1	6.0	11.0	4	1.0
2	1.0	2.0	2	1.0
3	1.0	2.0	6	2.0
4	5.0	5.0	2	1.0

	beds	price	minimum_nights	maximum_nights	minimum_minimum_nights \
0	1.0	56.0	31	1125	31
1	1.0	140.0	31	180	31
2	1.0	110.0	2	28	1
3	3.0	97.0	31	365	31
4	1.0	81.0	1	28	1

	maximum_minimum_nights	minimum_maximum_nights	maximum_maximum_nights \
0	31	1125	1125
1	31	180	180
2	2	28	28
3	31	365	365
4	2	28	28

	minimum_nights_avg_ntm	maximum_nights_avg_ntm	availability_30 \
0	31.0	1125.0	30

1	31.0	180.0	24
2	2.0	28.0	11
3	31.0	365.0	30
4	1.1	28.0	25

	availability_60	availability_90	availability_365	number_of_reviews \
0	60	90	365	5
1	31	43	303	21
2	14	26	171	268
3	48	71	221	78
4	55	83	258	5

	number_of_reviews_ltm	number_of_reviews_l30d	availability_eoy \
0	0	0	302
1	0	0	237
2	45	0	98
3	11	0	177
4	5	3	258

	number_of_reviews_ly	estimated_occupancy_l365d	estimated_revenue_l365d \
0	0	0	0.0
1	0	0	0.0
2	46	255	28050.0
3	11	255	24735.0
4	0	30	2430.0

	calculated_host_listings_count \
0	6
1	6
2	1
3	1
4	5

	calculated_host_listings_count_entire_homes \
0	0
1	6
2	1
3	1
4	1

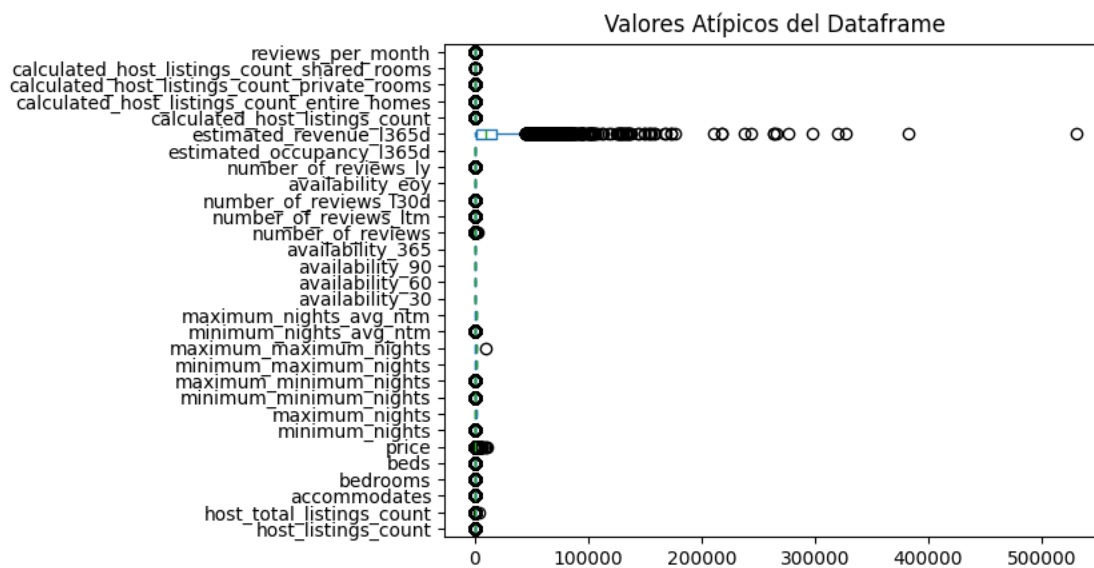
	calculated_host_listings_count_private_rooms \
0	6
1	0
2	0
3	0
4	4

	calculated_host_listings_count_shared_rooms	reviews_per_month
--	---	-------------------

0	0	0.04
1	0	0.12
2	0	1.59
3	0	0.45
4	0	3.13

```
[ ]: #Realizamos diagrama de caja o bigote de cada columna del dataframe
fig = plt.figure(figsize=(15, 8))
df_quantitative.plot(kind='box', vert=False)
plt.title("Valores Atípicos del Dataframe")
plt.show() #dibujamos el diagrama
```

<Figure size 1500x800 with 0 Axes>



## PROCEDIMIENTO “IQR” PARA ELIMINAR OUTLIERS EN DATAFRAME

```
[ ]: #Método aplicando Cuartiles. Encuentro cuartiles 0.25 y 0.75
y=df_quantitative

percentile25=y.quantile(0.25) #Q1
percentile75=y.quantile(0.75) #Q3
iqr= percentile75 - percentile25

Limite_Superior_iqr= percentile75 + 1.5*iqr
Limite_Inferior_iqr= percentile25 - 1.5*iqr
print("Limite superior permitido", Limite_Superior_iqr)
print("Limite inferior permitido", Limite_Inferior_iqr)
```

Limite superior permitido host\_listings\_count

13.500000	
host_total_listings_count	14.500000
accommodates	9.500000
bedrooms	3.500000
beds	6.000000
price	329.421538
minimum_nights	6.000000
maximum_nights	2767.500000
minimum_minimum_nights	6.000000
maximum_minimum_nights	7.000000
minimum_maximum_nights	2722.500000
maximum_maximum_nights	2664.000000
minimum_nights_avg_ntm	5.750000
maximum_nights_avg_ntm	2664.000000
availability_30	38.500000
availability_60	82.000000
availability_90	134.000000
availability_365	641.000000
number_of_reviews	433.500000
number_of_reviews_ltm	72.500000
number_of_reviews_l30d	2.500000
availability_eoy	544.500000
number_of_reviews_ly	75.000000
estimated_occupancy_l365d	480.000000
estimated_revenue_l365d	44646.000000
calculated_host_listings_count	11.000000
calculated_host_listings_count_entire_homes	6.000000
calculated_host_listings_count_private_rooms	5.000000
calculated_host_listings_count_shared_rooms	0.000000
reviews_per_month	4.610000
dtype: float64	
Limite inferior permitido host_listings_count	
-6.500000	
host_total_listings_count	-5.500000
accommodates	-2.500000
bedrooms	-0.500000
beds	-2.000000
price	-55.252923
minimum_nights	-2.000000
maximum_nights	-1612.500000
minimum_minimum_nights	-2.000000
maximum_minimum_nights	-1.000000
minimum_maximum_nights	-1537.500000
maximum_maximum_nights	-1440.000000
minimum_nights_avg_ntm	-0.250000
maximum_nights_avg_ntm	-1440.000000
availability_30	-21.500000
availability_60	-46.000000

availability_90	-74.000000
availability_365	-351.000000
number_of_reviews	-234.500000
number_of_reviews_ltm	-43.500000
number_of_reviews_l30d	-1.500000
availability_eoy	-307.500000
number_of_reviews_ly	-45.000000
estimated_occupancy_l365d	-288.000000
estimated_revenue_l365d	-23370.000000
calculated_host_listings_count	-5.000000
calculated_host_listings_count_entire_homes	-2.000000
calculated_host_listings_count_private_rooms	-3.000000
calculated_host_listings_count_shared_rooms	0.000000
reviews_per_month	-2.430000

dtype: float64

```
[ ]: #Obtenemos datos limpios del Dataframe
df_cuartiles =
    ↪df_quantitative[(y<=Limite_Superior_iqr)&(y>=Limite_Inferior_iqr)]
```

```
[ ]: # Identify integer columns in df_cuartiles
integer_columns = df_cuartiles.select_dtypes(include=np.number).columns

# Impute outliers (NaN values) in integer columns with the median
for col in integer_columns:
    median_value = df_cuartiles[col].median()
    df_cuartiles[col] = df_cuartiles[col].fillna(median_value)

# Display the null value counts to verify imputation
display(df_cuartiles.isnull().sum())

# Assign the cleaned dataframe to a new variable name
df_quantitative_filled_outliers = df_cuartiles
```

host_listings_count	0
host_total_listings_count	0
accommodates	0
bedrooms	0
beds	0
price	0
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0

availability_30	0
availability_60	0
availability_90	0
availability_365	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0
calculated_host_listings_count_private_rooms	0
calculated_host_listings_count_shared_rooms	0
reviews_per_month	0
dtype: int64	

```
[ ]: #Corroboramos valores nulos (Atípicos) del dataframe FINAL
display(df_quantitative_filled_outliers.isnull().sum())
```

host_listings_count	0
host_total_listings_count	0
accommodates	0
bedrooms	0
beds	0
price	0
minimum_nights	0
maximum_nights	0
minimum_minimum_nights	0
maximum_minimum_nights	0
minimum_maximum_nights	0
maximum_maximum_nights	0
minimum_nights_avg_ntm	0
maximum_nights_avg_ntm	0
availability_30	0
availability_60	0
availability_90	0
availability_365	0
number_of_reviews	0
number_of_reviews_ltm	0
number_of_reviews_l30d	0
availability_eoy	0
number_of_reviews_ly	0
estimated_occupancy_l365d	0
estimated_revenue_l365d	0
calculated_host_listings_count	0
calculated_host_listings_count_entire_homes	0

```

calculated_host_listings_count_private_rooms    0
calculated_host_listings_count_shared_rooms    0
reviews_per_month                              0
dtype: int64

```

```

[ ]: # Concatenate the two dataframes back together
df_merged = pd.concat([df_qualitative, df_quantitative_filled_outliers], axis=1)

# Display the head of the merged dataframe and its info to verify
display(df_merged.head())

```

```

      id      scrape_id  host_id \
0  2.737000e+03  2.030000e+13    3047
1  3.079000e+03  2.030000e+13    3504
2  1.183400e+04  2.030000e+13   44552
3  1.239800e+04  2.030000e+13   11756
4  1.210000e+18  2.030000e+13  590573096

```

```

                                listing_url last_scraped      source \
0                https://www.airbnb.com/rooms/2737      05/03/25  city scrape
1                https://www.airbnb.com/rooms/3079      08/03/25  city scrape
2                https://www.airbnb.com/rooms/11834     15/03/25  city scrape
3                https://www.airbnb.com/rooms/12398     06/03/25  city scrape
4  https://www.airbnb.com/rooms/1211500232171693714     05/03/25  city scrape

```

```

                                name \
0                Elif's room in cozy, clean flat.
1      Cozy apartment (2-4)with Colisseum view
2                Charming Boschetto Studio, Rome
3                Casa Donatello - Home far from Home
4  La Quercia Nera - Trastevere - Centro di Roma

```

```

                                description \
0  10 min by bus you can get to Piazza Venezia or...
1  With the view of the Colisseum from the front ...
2  Fantastic apartment in the Monti district. Th...
3  Casa Donatello is a newly renovated two-bedroo...
4  Discover the charm of Rome by staying in our n...

```

```

                                neighborhood_overview \
0  It used to be an industrial area until late 80...
1  Monti neighborhood is one of the best areas in...
2  "Monti" with its narrow cobblestone alleys, cr...
3  You are at 15 minutes walking distance from hi...
4  You will appreciate the proximity to Trastever...

```

```

                                picture_url \
0  https://a0.muscache.com/pictures/41225252/e955...

```



```

1 https://a0.muscache.com/pictures/miso/Hosting-...
2 https://a0.muscache.com/pictures/miso/Hosting-...
3 https://a0.muscache.com/pictures/miso/Hosting-...
4 https://a0.muscache.com/pictures/hosting/Hosti...

```

```

                                host_url host_name host_since \
0      https://www.airbnb.com/users/show/3047      Elif      18/09/08
1      https://www.airbnb.com/users/show/3504      Laura      08/10/08
2      https://www.airbnb.com/users/show/44552      Serena      09/10/09
3      https://www.airbnb.com/users/show/11756      Gea      30/03/09
4 https://www.airbnb.com/users/show/590573096      Mario      18/07/24

```

```

host_location                                host_about \
0 Rome, Italy I am a Turkish-Italian who was born in Istanbul...
1 Rome, Italy I've a degree in Art History\r\n
2 Rome, Italy Hello I'm Serena I was born and live in Rome, ...
3 Rome, Italy Hello to everybody,\r\nIt will be a pleasure t...
4 Rome, Italy NONE

```

```

host_response_time host_is_superhost \
0 within a few hours      f
1      within a day      f
2 within a few hours      t
3      within an hour      t
4      within an hour      t

```

```

                                host_thumbnail_url \
0 https://a0.muscache.com/im/pictures/user/User/...
1 https://a0.muscache.com/im/users/3504/profile_...
2 https://a0.muscache.com/im/users/44552/profile...
3 https://a0.muscache.com/im/users/11756/profile...
4 https://a0.muscache.com/im/pictures/user/User/...

```

```

                                host_picture_url host_neighbourhood \
0 https://a0.muscache.com/im/pictures/user/User/...      Testaccio
1 https://a0.muscache.com/im/users/3504/profile_...      Monti
2 https://a0.muscache.com/im/users/44552/profile...      Monti
3 https://a0.muscache.com/im/users/11756/profile...      Flaminio
4 https://a0.muscache.com/im/pictures/user/User/...      UNKNOWN

```

```

host_verifications host_has_profile_pic host_identity_verified \
0 ['email', 'phone']      t      t
1 ['email', 'phone']      t      t
2 ['email', 'phone']      t      t
3 ['email', 'phone']      t      t
4 ['email', 'phone']      t      t

```

```

neighbourhood neighbourhood_cleansed      property_type \

```

0	Rome, Lazio, Italy	VIII Appia Antica	Private room
1	Rome, Lazio, Italy	I Centro Storico	Entire rental unit
2	Rome, Lazio, Italy	I Centro Storico	Entire rental unit
3	Rome, Lazio, Italy	II Parioli/Nomentano	Entire rental unit
4	Rome, Lazio, Italy	XII Monte Verde	Private room in condo

	room_type	bathrooms_text	\
0	Private room	1.5 baths	
1	Entire home/apt	1 bath	
2	Entire home/apt	1 bath	
3	Entire home/apt	1 bath	
4	Private room	1 private bath	

	amenities	has_availability	\
0	["Dedicated workspace", "Bidet", "Iron", "Toas...	t	
1	["Paid parking off premises", "Dedicated works...	t	
2	["Extra pillows and blankets", "Cleaning produ...	t	
3	["Dedicated workspace", "Bidet", "Iron", "Toas...	t	
4	["Dedicated workspace", "Bidet", "Iron", "Toas...	t	

	calendar_last_scraped	first_review	last_review	license	\
0	05/03/25	26/12/14	08/05/15	UNKNOWN	
1	08/03/25	02/01/11	30/04/22	UNKNOWN	
2	15/03/25	01/05/11	08/01/25	IT058091C29VJSIZQZ	
3	06/03/25	18/10/10	30/10/24	it058091c2kv6epw8f	
4	05/03/25	17/01/25	25/02/25	IT058091C2P495DNNK	

	instant_bookable	latitude	longitude	host_response_rate	\
0	f	41.871360	12.482150	100.0	
1	f	41.895000	12.491170	100.0	
2	f	41.895447	12.491181	100.0	
3	f	41.925820	12.469280	100.0	
4	f	41.875124	12.466063	100.0	

	host_acceptance_rate	review_scores_rating	review_scores_accuracy	\
0	0.0	4.80	4.60	
1	0.0	4.53	4.38	
2	98.0	4.86	4.86	
3	96.0	4.90	4.89	
4	100.0	5.00	5.00	

	review_scores_cleanliness	review_scores_checkin	\
0	4.60	4.80	
1	4.62	4.71	
2	4.93	4.98	
3	4.92	4.93	
4	5.00	5.00	

	review_scores_communication	review_scores_location	review_scores_value	\
0	5.00	4.40	4.40	
1	4.86	4.81	4.43	
2	4.96	4.99	4.81	
3	5.00	4.87	4.82	
4	5.00	4.80	5.00	

	bathrooms	host_listings_count	host_total_listings_count	accommodates	\
0	1.5	7.0	7.0	1.0	
1	1.0	6.0	11.0	4.0	
2	1.0	1.0	2.0	2.0	
3	1.0	1.0	2.0	6.0	
4	1.0	5.0	5.0	2.0	

	bedrooms	beds	price	minimum_nights	maximum_nights	\
0	1.0	1.0	56.0	2.0	1125	
1	1.0	1.0	140.0	2.0	180	
2	1.0	1.0	110.0	2.0	28	
3	2.0	3.0	97.0	2.0	365	
4	1.0	1.0	81.0	1.0	28	

	minimum_minimum_nights	maximum_minimum_nights	minimum_maximum_nights	\
0	2.0	2.0	1125	
1	2.0	2.0	180	
2	1.0	2.0	28	
3	2.0	2.0	365	
4	1.0	2.0	28	

	maximum_maximum_nights	minimum_nights_avg_ntm	maximum_nights_avg_ntm	\
0	1125.0	2.0	1125.0	
1	180.0	2.0	180.0	
2	28.0	2.0	28.0	
3	365.0	2.0	365.0	
4	28.0	1.1	28.0	

	availability_30	availability_60	availability_90	availability_365	\
0	30	60	90	365	
1	24	31	43	303	
2	11	14	26	171	
3	30	48	71	221	
4	25	55	83	258	

	number_of_reviews	number_of_reviews_ltm	number_of_reviews_l30d	\
0	5.0	0.0	0.0	
1	21.0	0.0	0.0	
2	268.0	45.0	0.0	
3	78.0	11.0	0.0	
4	5.0	5.0	0.0	

	availability_eoy	number_of_reviews_ly	estimated_occupancy_1365d	\
0	302	0.0	0	
1	237	0.0	0	
2	98	46.0	255	
3	177	11.0	255	
4	258	0.0	30	

	estimated_revenue_1365d	calculated_host_listings_count	\
0	0.0	6.0	
1	0.0	6.0	
2	28050.0	1.0	
3	24735.0	1.0	
4	2430.0	5.0	

	calculated_host_listings_count_entire_homes	\
0	0.0	
1	6.0	
2	1.0	
3	1.0	
4	1.0	

	calculated_host_listings_count_private_rooms	\
0	0.0	
1	0.0	
2	0.0	
3	0.0	
4	4.0	

	calculated_host_listings_count_shared_rooms	reviews_per_month
0	0.0	0.04
1	0.0	0.12
2	0.0	1.59
3	0.0	0.45
4	0.0	3.13

## REGRESIÓN LINEAL SIMPLE (Punto 4 y Punto 5)

```
[ ]: # Concatenate the two dataframes back together
df_merged = pd.concat([df_qualitative, df_quantitative_filled_outliers], axis=1)

# Get unique room types
room_types = ['Entire home/apt', 'Hotel room', 'Private room', 'Shared room']

# Create a dictionary to store dataframes for each room type
room_type_dataframes = {}

# Iterate through specified room types and create a dataframe for each
```

```

for room_type in room_types:
    room_type_dataframes[room_type] = df_merged[df_merged['room_type'] == room_type].copy()

# Display the first few rows of each segmented dataframe to verify
for room_type, df_room in room_type_dataframes.items():
    print(f"DataFrame for room type: {room_type}")
    display(df_room.head())

# Create individual dataframes for each room type
df_entire_home_apt = room_type_dataframes.get('Entire home/apt')
df_hotel_room = room_type_dataframes.get('Hotel room')
df_private_room = room_type_dataframes.get('Private room')
df_shared_room = room_type_dataframes.get('Shared room')

```

DataFrame for room type: Entire home/apt

	id	scrape_id	host_id \
1	3.079000e+03	2.030000e+13	3504
2	1.183400e+04	2.030000e+13	44552
3	1.239800e+04	2.030000e+13	11756
6	1.210000e+18	2.030000e+13	20600886
7	1.210000e+18	2.030000e+13	284944258

	listing_url	last_scraped	source \
1	https://www.airbnb.com/rooms/3079	08/03/25	city scrape
2	https://www.airbnb.com/rooms/11834	15/03/25	city scrape
3	https://www.airbnb.com/rooms/12398	06/03/25	city scrape
6	https://www.airbnb.com/rooms/1211521201915387381	06/03/25	city scrape
7	https://www.airbnb.com/rooms/1211523205937481277	07/03/25	city scrape

	name \
1	Cozy apartment (2-4)with Colisseum view
2	Charming Boschetto Studio, Rome
3	Casa Donatello - Home far from Home
6	Delizioso appartamento luminoso
7	Attico a San Giovanni - 3 minuti dalla metro A

	description \
1	With the view of the Colisseum from the front ...
2	Fantastic apartment in the Monti district. Th...
3	Casa Donatello is a newly renovated two-bedroo...
6	Bright renovated and fully furnished apartment...
7	Discover the charm of Rome in this renovated p...

	neighborhood_overview \
1	Monti neighborhood is one of the best areas in...
2	"Monti" with its narrow cobblestone alleys, cr...

3 You are at 15 minutes walking distance from hi...

6 NONE

7 NONE

	picture_url \
1	https://a0.muscache.com/pictures/miso/Hosting-...
2	https://a0.muscache.com/pictures/miso/Hosting-...
3	https://a0.muscache.com/pictures/miso/Hosting-...
6	https://a0.muscache.com/pictures/hosting/Hosti...
7	https://a0.muscache.com/pictures/miso/Hosting-...

	host_url	host_name	host_since \
1	https://www.airbnb.com/users/show/3504	Laura	08/10/08
2	https://www.airbnb.com/users/show/44552	Serena	09/10/09
3	https://www.airbnb.com/users/show/11756	Gea	30/03/09
6	https://www.airbnb.com/users/show/20600886	Sara	27/08/14
7	https://www.airbnb.com/users/show/284944258	Roberta	12/08/19

	host_location	host_about \
1	Rome, Italy	I've a degree in Art History\r\n
2	Rome, Italy	Hello I'm Serena I was born and live in Rome, ...
3	Rome, Italy	Hello to everybody,\r\nIt will be a pleasure t...
6	Rome, Italy	I'm Italian from Rome\nI speak 4 languages \nE...
7	Rome, Italy	NONE

	host_response_time	host_is_superhost \
1	within a day	f
2	within a few hours	t
3	within an hour	t
6	within a few hours	f
7	within an hour	f

	host_thumbnail_url \
1	https://a0.muscache.com/im/users/3504/profile_...
2	https://a0.muscache.com/im/users/44552/profile...
3	https://a0.muscache.com/im/users/11756/profile...
6	https://a0.muscache.com/im/pictures/user/User/...
7	https://a0.muscache.com/im/pictures/user/User-...

	host_picture_url	host_neighbourhood \
1	https://a0.muscache.com/im/users/3504/profile_...	Monti
2	https://a0.muscache.com/im/users/44552/profile...	Monti
3	https://a0.muscache.com/im/users/11756/profile...	Flaminio
6	https://a0.muscache.com/im/pictures/user/User/...	UNKNOWN
7	https://a0.muscache.com/im/pictures/user/User-...	UNKNOWN

	host_verifications	host_has_profile_pic	host_identity_verified \
1	['email', 'phone']	t	t

2	['email', 'phone']	t	t
3	['email', 'phone']	t	t
6	['email', 'phone']	t	t
7	['email', 'phone']	t	f

	neighbourhood	neighbourhood_cleansed	property_type \
1	Rome, Lazio, Italy	I Centro Storico	Entire rental unit
2	Rome, Lazio, Italy	I Centro Storico	Entire rental unit
3	Rome, Lazio, Italy	II Parioli/Nomentano	Entire rental unit
6	Rome, Lazio, Italy	V Prenestino/Centocelle	Entire rental unit
7	Rome, Lazio, Italy	VII San Giovanni/Cinecittà	Entire condo

	room_type	bathrooms_text \
1	Entire home/apt	1 bath
2	Entire home/apt	1 bath
3	Entire home/apt	1 bath
6	Entire home/apt	1 bath
7	Entire home/apt	1 bath

	amenities	has_availability \
1	["Paid parking off premises", "Dedicated works...	t
2	["Extra pillows and blankets", "Cleaning produ...	t
3	["Dedicated workspace", "Bidet", "Iron", "Toas...	t
6	["TV", "Hangers", "Refrigerator", "Freezer", "...	t
7	["Dedicated workspace", "Bidet", "Paid parking...	t

	calendar_last_scraped	first_review	last_review	license \
1	08/03/25	02/01/11	30/04/22	UNKNOWN
2	15/03/25	01/05/11	08/01/25	IT058091C29VJSIZQZ
3	06/03/25	18/10/10	30/10/24	it058091c2kv6epw8f
6	06/03/25	16/02/25	16/02/25	IT058091C2P9VIF34W
7	07/03/25	14/09/24	20/10/24	IT058091C22VT9UMI3

	instant_bookable	latitude	longitude	host_response_rate \
1	f	41.895000	12.491170	100.0
2	f	41.895447	12.491181	100.0
3	f	41.925820	12.469280	100.0
6	f	41.883484	12.578366	100.0
7	t	41.877496	12.516198	96.3

	host_acceptance_rate	review_scores_rating	review_scores_accuracy \
1	0.0	4.53	4.38
2	98.0	4.86	4.86
3	96.0	4.90	4.89
6	100.0	5.00	5.00
7	100.0	5.00	5.00

review_scores_cleanliness	review_scores_checkin \
---------------------------	-------------------------

1	4.62	4.71
2	4.93	4.98
3	4.92	4.93
6	5.00	5.00
7	5.00	5.00

	review_scores_communication	review_scores_location	review_scores_value \
1	4.86	4.81	4.43
2	4.96	4.99	4.81
3	5.00	4.87	4.82
6	5.00	5.00	5.00
7	5.00	4.75	4.75

	bathrooms	host_listings_count	host_total_listings_count	accommodates \
1	1.0	6.0	11.0	4.0
2	1.0	1.0	2.0	2.0
3	1.0	1.0	2.0	6.0
6	1.0	1.0	1.0	2.0
7	1.0	1.0	1.0	3.0

	bedrooms	beds	price	minimum_nights	maximum_nights \
1	1.0	1.0	140.0	2.0	180
2	1.0	1.0	110.0	2.0	28
3	2.0	3.0	97.0	2.0	365
6	1.0	1.0	174.0	2.0	60
7	1.0	1.0	107.0	2.0	28

	minimum_minimum_nights	maximum_minimum_nights	minimum_maximum_nights \
1	2.0	2.0	180
2	1.0	2.0	28
3	2.0	2.0	365
6	2.0	2.0	60
7	2.0	2.0	1125

	maximum_maximum_nights	minimum_nights_avg_ntm	maximum_nights_avg_ntm \
1	180.0	2.0	180.0
2	28.0	2.0	28.0
3	365.0	2.0	365.0
6	60.0	2.0	60.0
7	1125.0	2.0	1125.0

	availability_30	availability_60	availability_90	availability_365 \
1	24	31	43	303
2	11	14	26	171
3	30	48	71	221
6	21	51	81	108
7	30	60	90	300



	number_of_reviews	number_of_reviews_ltm	number_of_reviews_l30d \
1	21.0	0.0	0.0
2	268.0	45.0	0.0
3	78.0	11.0	0.0
6	1.0	1.0	1.0
7	4.0	4.0	0.0

	availability_eoy	number_of_reviews_ly	estimated_occupancy_l365d \
1	237	0.0	0
2	98	46.0	255
3	177	11.0	255
6	108	0.0	6
7	300	4.0	24

	estimated_revenue_l365d	calculated_host_listings_count \
1	0.0	6.0
2	28050.0	1.0
3	24735.0	1.0
6	1044.0	1.0
7	2568.0	1.0

	calculated_host_listings_count_entire_homes \
1	6.0
2	1.0
3	1.0
6	1.0
7	1.0

	calculated_host_listings_count_private_rooms \
1	0.0
2	0.0
3	0.0
6	0.0
7	0.0

	calculated_host_listings_count_shared_rooms	reviews_per_month
1	0.0	0.12
2	0.0	1.59
3	0.0	0.45
6	0.0	1.00
7	0.0	0.69

DataFrame for room type: Hotel room

	id	scrape_id	host_id	listing_url \
110	181189.0	2.030000e+13	868477	<a href="https://www.airbnb.com/rooms/181189">https://www.airbnb.com/rooms/181189</a>
149	85857.0	2.030000e+13	470889	<a href="https://www.airbnb.com/rooms/85857">https://www.airbnb.com/rooms/85857</a>
192	272634.0	2.030000e+13	1426840	<a href="https://www.airbnb.com/rooms/272634">https://www.airbnb.com/rooms/272634</a>
199	277084.0	2.030000e+13	1013976	<a href="https://www.airbnb.com/rooms/277084">https://www.airbnb.com/rooms/277084</a>

249 436480.0 2.030000e+13 1429012 https://www.airbnb.com/rooms/436480

	last_scraped	source	name \
110	11/03/25	city scrape	^_^ LoVeLy DoUbLe RoOm ^_^
149	08/03/25	city scrape	Aenea's B&B in the heart of Rome
192	15/03/25	city scrape	Sixtythree bb - double ensuite
199	09/03/25	previous scrape	Lovely B&B in lively Trastevere
249	06/03/25	city scrape	Classic Room- Single, Double, Triple Room

	description \
110	NONE
149	For anyone looking for a room in the heart of ...
192	Since 2005 Sixtythree Guesthouse has been offe...
199	ROOM SCULTORE Elegantly furnished and equ...
249	<b>Don't forget to comunicate your arrival tim...

	neighborhood_overview \
110	NONE
149	NONE
192	NONE
199	Trastevere is the most popular district and on...
249	NONE

	picture_url \
110	https://a0.muscache.com/pictures/hosting/Hosti...
149	https://a0.muscache.com/pictures/597171/83bdbb...
192	https://a0.muscache.com/pictures/miso/Hosting-...
199	https://a0.muscache.com/pictures/miso/Hosting-...
249	https://a0.muscache.com/pictures/hosting/Hosti...

	host_url	host_name	host_since \
110	https://www.airbnb.com/users/show/868477	Luigi	25/07/11
149	https://www.airbnb.com/users/show/470889	Federica	29/03/11
192	https://www.airbnb.com/users/show/1426840	Gaetano	20/11/11
199	https://www.airbnb.com/users/show/1013976	Lucia	24/08/11
249	https://www.airbnb.com/users/show/1429012	Emanuele & Natalya	21/11/11

	host_location	host_about \
110	Rome, Italy	Come si fa per stringere amicizia ?
149	Rome, Italy	Hello. \nOur staff is composed by Federica, La...
192	Rome, Italy	NONE
199	Rome, Italy	Ciao sono Lucia, ho viaggiato molto soprattutt...
249	Rome, Italy	Mi chiamo Emanuele,\r\nprofessione: spirito li...

	host_response_time	host_is_superhost \
110	within an hour	t
149	within an hour	f
192	within an hour	f

199	within an hour	f
249	within an hour	f

	host_thumbnail_url	\
110	https://a0.muscache.com/im/pictures/user/17416...	
149	https://a0.muscache.com/im/users/470889/profil...	
192	https://a0.muscache.com/im/pictures/user/a89b6...	
199	https://a0.muscache.com/im/pictures/user/User-...	
249	https://a0.muscache.com/im/users/1429012/profi...	

	host_picture_url	host_neighbourhood	\
110	https://a0.muscache.com/im/pictures/user/17416...	Prati	
149	https://a0.muscache.com/im/users/470889/profil...	Esquilino	
192	https://a0.muscache.com/im/pictures/user/a89b6...	Esquilino	
199	https://a0.muscache.com/im/pictures/user/User-...	Trastevere	
249	https://a0.muscache.com/im/users/1429012/profi...	Trieste	

	host_verifications	host_has_profile_pic	\
110	['email', 'phone']	t	
149	['email', 'phone']	t	
192	['email', 'phone']	t	
199	['email', 'phone', 'work_email']	t	
249	['email', 'phone']	t	

	host_identity_verified	neighbourhood	neighbourhood_cleansed	\
110	t	Rome, Lazio, Italy	I Centro Storico	
149	t	Rome, Lazio, Italy	I Centro Storico	
192	t	Rome, Lazio, Italy	I Centro Storico	
199	t	Rome, Italy	I Centro Storico	
249	t	Rome, Lazio, Italy	II Parioli/Nomentano	

	property_type	room_type	bathrooms_text	\
110	Room in bed and breakfast	Hotel room	1 private bath	
149	Room in bed and breakfast	Hotel room	NONE	
192	Room in bed and breakfast	Hotel room	1 bath	
199	Room in bed and breakfast	Hotel room	1 shared bath	
249	Room in bed and breakfast	Hotel room	1 private bath	

	amenities	has_availability	\
110	["TV", "Bidet", "Microwave", "Hangers", "Shamp...	t	
149	["TV", "Bidet", "Crib", "Essentials", "Dishes ...	t	
192	["Wifi", "Air conditioning", "Hair dryer", "El...	t	
199	["Iron", "Smoke alarm", "Hangers", "Fire extin...	t	
249	["Smoke alarm", "Hangers", "Refrigerator", "Pa...	t	

	calendar_last_scraped	first_review	last_review	license	\
110	11/03/25	03/10/11	23/06/24	IT058091C2TLRQG7P2	
149	08/03/25	08/07/11	11/02/25	IT058091C1XOWXHVQP	

192	15/03/25	16/12/15	25/05/23	IT058091B4CPF8RAB5
199	09/03/25	20/02/12	11/07/24	IT058091B4C6V8L4FJ
249	06/03/25	22/06/13	12/01/25	IT058091C1SJEQHIUC

	instant_bookable	latitude	longitude	host_response_rate	\
110	f	41.909630	12.456030	100.0	
149	t	41.898190	12.503888	98.0	
192	t	41.898760	12.504700	96.3	
199	t	41.891340	12.468610	100.0	
249	t	41.929806	12.523479	100.0	

	host_acceptance_rate	review_scores_rating	review_scores_accuracy	\
110	100.0	4.73	4.78	
149	100.0	4.26	4.45	
192	100.0	4.67	4.44	
199	88.0	4.55	4.62	
249	98.0	4.58	4.71	

	review_scores_cleanliness	review_scores_checkin	\
110	4.77	4.90	
149	4.46	4.64	
192	4.67	4.44	
199	4.80	4.90	
249	4.78	4.81	

	review_scores_communication	review_scores_location	review_scores_value	\
110	4.90	4.87	4.71	
149	4.66	4.29	4.21	
192	5.00	4.78	4.89	
199	4.90	4.95	4.40	
249	4.75	4.53	4.51	

	bathrooms	host_listings_count	host_total_listings_count	accommodates	\
110	1.0	8.0	8.0	2.0	
149	3.0	7.0	11.0	2.0	
192	1.0	4.0	4.0	2.0	
199	1.0	5.0	8.0	2.0	
249	1.0	5.0	5.0	3.0	

	bedrooms	beds	price	minimum_nights	maximum_nights	\
110	1.0	1.0	81.000000	2.0	730	
149	1.0	1.0	78.000000	2.0	365	
192	1.0	1.0	103.000000	3.0	365	
199	1.0	2.0	147.438525	1.0	60	
249	1.0	1.0	71.000000	1.0	1125	

	minimum_minimum_nights	maximum_minimum_nights	minimum_maximum_nights	\
110	2.0	2.0	730	

149	1.0	3.0	365
192	1.0	5.0	999
199	1.0	4.0	99
249	1.0	3.0	99

	maximum_maximum_nights	minimum_nights_avg_ntm	maximum_nights_avg_ntm	\
110	730.0	2.0	730.0	
149	365.0	1.9	365.0	
192	999.0	4.9	999.0	
199	99.0	1.3	99.0	
249	99.0	1.1	99.0	

	availability_30	availability_60	availability_90	availability_365	\
110	19	48	70	339	
149	8	27	50	116	
192	29	59	89	364	
199	1	4	6	136	
249	22	45	66	272	

	number_of_reviews	number_of_reviews_ltm	number_of_reviews_l30d	\
110	163.0	13.0	0.0	
149	98.0	6.0	1.0	
192	9.0	0.0	0.0	
199	21.0	2.0	0.0	
249	59.0	11.0	0.0	

	availability_eoy	number_of_reviews_ly	estimated_occupancy_l365d	\
110	270	13.0	78	
149	116	7.0	36	
192	291	0.0	0	
199	72	3.0	12	
249	272	10.0	66	

	estimated_revenue_l365d	calculated_host_listings_count	\
110	6318.0	8.0	
149	2808.0	6.0	
192	0.0	4.0	
199	9408.0	5.0	
249	4686.0	4.0	

	calculated_host_listings_count_entire_homes	\
110	2.0	
149	0.0	
192	0.0	
199	1.0	
249	1.0	

	calculated_host_listings_count_private_rooms	\
--	--	---

110	4.0
149	3.0
192	2.0
199	2.0
249	0.0

	calculated_host_listings_count_shared_rooms	reviews_per_month
110	0.0	1.00
149	0.0	0.59
192	0.0	0.08
199	0.0	0.13
249	0.0	0.41

DataFrame for room type: Private room

	id	scrape_id	host_id \
0	2.737000e+03	2.030000e+13	3047
4	1.210000e+18	2.030000e+13	590573096
5	1.210000e+18	2.030000e+13	590573096
10	1.210000e+18	2.030000e+13	314591041
11	1.210000e+18	2.030000e+13	314591041

	listing_url	last_scraped \
0	https://www.airbnb.com/rooms/2737	05/03/25
4	https://www.airbnb.com/rooms/1211500232171693714	05/03/25
5	https://www.airbnb.com/rooms/1211508050662517878	05/03/25
10	https://www.airbnb.com/rooms/1211543158452682797	11/03/25
11	https://www.airbnb.com/rooms/1211545492470940514	11/03/25

	source	name \
0	city scrape	Elif's room in cozy, clean flat.
4	city scrape	La Quercia Nera - Trastevere - Centro di Roma
5	city scrape	The Black Tower - Trastevere - Center of Rome
10	city scrape	Celeste Suites Vittorio Emanuele balcony
11	city scrape	Celeste Suites Vittorio Emanuele Kitchen

	description \
0	10 min by bus you can get to Piazza Venezia or...
4	Discover the charm of Rome by staying in our n...
5	Discover the charm of Rome by staying in our n...
10	Stay in a luxury space close to everything you...
11	Stay at the center of the action in this one-o...

	neighborhood_overview \
0	It used to be an industrial area until late 80...
4	You will appreciate the proximity to Trastever...
5	You will appreciate the proximity to Trastever...
10	NONE
11	NONE

	picture_url \
0	https://a0.muscache.com/pictures/41225252/e955...
4	https://a0.muscache.com/pictures/hosting/Hosti...
5	https://a0.muscache.com/pictures/hosting/Hosti...
10	https://a0.muscache.com/pictures/miso/Hosting-...
11	https://a0.muscache.com/pictures/prohost-api/H...

	host_url	host_name	host_since \
0	https://www.airbnb.com/users/show/3047	Elif	18/09/08
4	https://www.airbnb.com/users/show/590573096	Mario	18/07/24
5	https://www.airbnb.com/users/show/590573096	Mario	18/07/24
10	https://www.airbnb.com/users/show/314591041	Daniel	05/12/19
11	https://www.airbnb.com/users/show/314591041	Daniel	05/12/19

	host_location	host_about \
0	Rome, Italy	I am a Turkish-Italian who was born in Istanbul...
4	Rome, Italy	NONE
5	Rome, Italy	NONE
10	Saint-Tropez, France	NONE
11	Saint-Tropez, France	NONE

	host_response_time	host_is_superhost \
0	within a few hours	f
4	within an hour	t
5	within an hour	t
10	within an hour	f
11	within an hour	f

	host_thumbnail_url \
0	https://a0.muscache.com/im/pictures/user/User/...
4	https://a0.muscache.com/im/pictures/user/User/...
5	https://a0.muscache.com/im/pictures/user/User/...
10	https://a0.muscache.com/im/pictures/user/07e33...
11	https://a0.muscache.com/im/pictures/user/07e33...

	host_picture_url	host_neighbourhood \
0	https://a0.muscache.com/im/pictures/user/User/...	Testaccio
4	https://a0.muscache.com/im/pictures/user/User/...	UNKNOWN
5	https://a0.muscache.com/im/pictures/user/User/...	UNKNOWN
10	https://a0.muscache.com/im/pictures/user/07e33...	UNKNOWN
11	https://a0.muscache.com/im/pictures/user/07e33...	UNKNOWN

	host_verifications	host_has_profile_pic	host_identity_verified \
0	['email', 'phone']	t	t
4	['email', 'phone']	t	t
5	['email', 'phone']	t	t
10	['email', 'phone']	t	t

11	['email', 'phone']	t	t
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	neighbourhood	neighbourhood_cleansed	\
0	Rome, Lazio, Italy	VIII Appia Antica	
4	Rome, Lazio, Italy	XII Monte Verde	
5	Rome, Lazio, Italy	XII Monte Verde	
10	Rome, Lazio, Italy	I Centro Storico	
11	Rome, Lazio, Italy	I Centro Storico	

	property_type	room_type	bathrooms_text	\
0	Private room	Private room	1.5 baths	
4	Private room in condo	Private room	1 private bath	
5	Private room in condo	Private room	1 private bath	
10	Private room in bed and breakfast	Private room	1 private bath	
11	Private room in bed and breakfast	Private room	1 private bath	

	amenities	has_availability	\
0	["Dedicated workspace", "Bidet", "Iron", "Toas...	t	
4	["Dedicated workspace", "Bidet", "Iron", "Toas...	t	
5	["43 inch HDTV with Amazon Prime Video, Netfli...	t	
10	["Dedicated workspace", "Iron", "Smoke alarm",...	t	
11	["Dedicated workspace", "Iron", "Smoke alarm",...	t	

	calendar_last_scraped	first_review	last_review	license	\
0	05/03/25	26/12/14	08/05/15	UNKNOWN	
4	05/03/25	17/01/25	25/02/25	IT058091C2P495DNNK	
5	05/03/25	26/10/24	02/03/25	IT058091C2P495DNNK	
10	11/03/25	00/00/00	00/00/00	IT058091C2YBF69DRI	
11	11/03/25	00/00/00	00/00/00	IT058091C2YBF69DRI	

	instant_bookable	latitude	longitude	host_response_rate	\
0	f	41.871360	12.482150	100.0	
4	f	41.875124	12.466063	100.0	
5	t	41.875124	12.466063	100.0	
10	t	41.896044	12.501981	90.0	
11	t	41.896044	12.501981	90.0	

	host_acceptance_rate	review_scores_rating	review_scores_accuracy	\
0	0.0	4.8	4.6	
4	100.0	5.0	5.0	
5	100.0	5.0	5.0	
10	100.0	0.0	0.0	
11	100.0	0.0	0.0	

	review_scores_cleanliness	review_scores_checkin	\
0	4.6	4.80	
4	5.0	5.00	
5	5.0	4.89	



10	0.0	0.00
11	0.0	0.00

	review_scores_communication	review_scores_location	review_scores_value	\
0	5.0	4.40	4.4	
4	5.0	4.80	5.0	
5	5.0	4.89	5.0	
10	0.0	0.00	0.0	
11	0.0	0.00	0.0	

	bathrooms	host_listings_count	host_total_listings_count	accommodates	\
0	1.5	7.0	7.0	1.0	
4	1.0	5.0	5.0	2.0	
5	1.0	5.0	5.0	2.0	
10	1.0	6.0	8.0	2.0	
11	1.0	6.0	8.0	4.0	

	bedrooms	beds	price	minimum_nights	maximum_nights	\
0	1.0	1.0	56.000000	2.0	1125	
4	1.0	1.0	81.000000	1.0	28	
5	1.0	1.0	71.000000	1.0	28	
10	1.0	1.0	115.506444	1.0	365	
11	1.0	2.0	115.506444	1.0	365	

	minimum_minimum_nights	maximum_minimum_nights	minimum_maximum_nights	\
0	2.0	2.0	1125	
4	1.0	2.0	28	
5	1.0	2.0	1125	
10	1.0	1.0	1125	
11	1.0	1.0	1125	

	maximum_maximum_nights	minimum_nights_avg_ntm	maximum_nights_avg_ntm	\
0	1125.0	2.0	1125.0	
4	28.0	1.1	28.0	
5	1125.0	1.3	1125.0	
10	1125.0	1.0	1125.0	
11	1125.0	1.0	1125.0	

	availability_30	availability_60	availability_90	availability_365	\
0	30	60	90	365	
4	25	55	83	258	
5	18	41	62	237	
10	30	60	90	279	
11	4	4	4	4	

	number_of_reviews	number_of_reviews_ltm	number_of_reviews_l30d	\
0	5.0	0.0	0.0	
4	5.0	5.0	0.0	

5	9.0	9.0	0.0
10	0.0	0.0	0.0
11	0.0	0.0	0.0

	availability_eoy	number_of_reviews_ly	estimated_occupancy_l365d \
0	302	0.0	0
4	258	0.0	30
5	237	4.0	54
10	210	0.0	0
11	0	0.0	0

	estimated_revenue_l365d	calculated_host_listings_count \
0	0.0	6.0
4	2430.0	5.0
5	3834.0	5.0
10	0.0	5.0
11	0.0	5.0

	calculated_host_listings_count_entire_homes \
0	0.0
4	1.0
5	1.0
10	1.0
11	1.0

	calculated_host_listings_count_private_rooms \
0	0.0
4	4.0
5	4.0
10	4.0
11	4.0

	calculated_host_listings_count_shared_rooms	reviews_per_month
0	0.0	0.04
4	0.0	3.13
5	0.0	2.06
10	0.0	0.00
11	0.0	0.00

DataFrame for room type: Shared room

	id	scrape_id	host_id \
54	1.210000e+18	2.030000e+13	412422099
2887	8.047377e+06	2.030000e+13	42412268
6735	2.349391e+07	2.030000e+13	2443553
8898	3.432959e+07	2.030000e+13	553924569
8899	3.433018e+07	2.030000e+13	553924569

listing_url	last_scraped \
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54	<a href="https://www.airbnb.com/rooms/1212250041993000131">https://www.airbnb.com/rooms/1212250041993000131</a>	10/03/25
2887	<a href="https://www.airbnb.com/rooms/8047377">https://www.airbnb.com/rooms/8047377</a>	05/03/25
6735	<a href="https://www.airbnb.com/rooms/23493912">https://www.airbnb.com/rooms/23493912</a>	09/03/25
8898	<a href="https://www.airbnb.com/rooms/34329590">https://www.airbnb.com/rooms/34329590</a>	15/03/25
8899	<a href="https://www.airbnb.com/rooms/34330180">https://www.airbnb.com/rooms/34330180</a>	11/03/25

	source	name \
54	city scrape	Camera Condivisa Check in 24/7
2887	city scrape	Stanza Orange doppia
6735	previous scrape	Sofa-bed for artists, ecologists, couchsurfers
8898	city scrape	1 BED IN 4 FEMALE ENSUITE DORM
8899	city scrape	1 BED IN 6 MIXED ENSUITE DORM

	description \
54	shared room 5 beds
2887	The apartment is well exposed and bright, it i...
6735	Are you an artist? Or an ecologist? Or a couch...
8898	18 to 45 y/o guests dorm - Shared bathroom wit...
8899	18 to 45 y/o guests dorm - Shared bathroom wit...

	neighborhood_overview \
54	NONE
2887	It is a very quiet neighborhood made up of tow...
6735	Pigneto is a kind of bohemian village in the c...
8898	• Trevi Fountain (30 min walk)  • Vatican...
8899	• Trevi Fountain (30 min walk)  • Vatican...

	picture_url \
54	<a href="https://a0.muscache.com/pictures/hosting/Hosti...">https://a0.muscache.com/pictures/hosting/Hosti...</a>
2887	<a href="https://a0.muscache.com/pictures/27d3eb8f-bfeb...">https://a0.muscache.com/pictures/27d3eb8f-bfeb...</a>
6735	<a href="https://a0.muscache.com/pictures/93ae75c8-ab54...">https://a0.muscache.com/pictures/93ae75c8-ab54...</a>
8898	<a href="https://a0.muscache.com/pictures/miso/Hosting-...">https://a0.muscache.com/pictures/miso/Hosting-...</a>
8899	<a href="https://a0.muscache.com/pictures/1f2619e4-9915...">https://a0.muscache.com/pictures/1f2619e4-9915...</a>

	host_url	host_name	host_since \
54	<a href="https://www.airbnb.com/users/show/412422099">https://www.airbnb.com/users/show/412422099</a>	Barbara	12/07/21
2887	<a href="https://www.airbnb.com/users/show/42412268">https://www.airbnb.com/users/show/42412268</a>	Francesco	24/08/15
6735	<a href="https://www.airbnb.com/users/show/2443553">https://www.airbnb.com/users/show/2443553</a>	Ezio	23/05/12
8898	<a href="https://www.airbnb.com/users/show/553924569">https://www.airbnb.com/users/show/553924569</a>	Marco	02/01/24
8899	<a href="https://www.airbnb.com/users/show/553924569">https://www.airbnb.com/users/show/553924569</a>	Marco	02/01/24

	host_location	host_about \
54	Rome, Italy	Se non fai il giro del mondo, il mondo gira e ...
2887	Rome, Italy	Ciao a tutti, mi chiamo Francesco, sono un li...
6735	Rome, Italy	I'm Ezio, a journalist and filmmaker who keep ...
8898	Rome, Italy	NONE
8899	Rome, Italy	NONE

	host_response_time	host_is_superhost	\
54	within an hour	f	
2887	within an hour	f	
6735	within an hour	f	
8898	within an hour	f	
8899	within an hour	f	

	host_thumbnail_url	\
54	https://a0.muscache.com/im/pictures/user/User-...	
2887	https://a0.muscache.com/im/pictures/user/76a72...	
6735	https://a0.muscache.com/im/users/2443553/profi...	
8898	https://a0.muscache.com/im/pictures/user/User-...	
8899	https://a0.muscache.com/im/pictures/user/User-...	

	host_picture_url	host_neighbourhood	\
54	https://a0.muscache.com/im/pictures/user/User-...	UNKNOWN	
2887	https://a0.muscache.com/im/pictures/user/76a72...	UNKNOWN	
6735	https://a0.muscache.com/im/users/2443553/profi...	Pigneto	
8898	https://a0.muscache.com/im/pictures/user/User-...	UNKNOWN	
8899	https://a0.muscache.com/im/pictures/user/User-...	UNKNOWN	

	host_verifications	host_has_profile_pic	host_identity_verified	\
54	['email', 'phone']	t	t	
2887	['email', 'phone']	t	t	
6735	['email', 'phone']	t	t	
8898	['phone']	t	t	
8899	['phone']	t	t	

	neighbourhood	neighbourhood_cleansed	property_type	\
54	Rome, Lazio, Italy	V Prenestino/Centocelle	Shared room in rental unit	
2887	Rome, Lazio, Italy	XII Monte Verde	Shared room in rental unit	
6735	Rome, Lazio, Italy	V Prenestino/Centocelle	Shared room in rental unit	
8898	Rome, Lazio, Italy	I Centro Storico	Shared room in hostel	
8899	Rome, Lazio, Italy	I Centro Storico	Shared room in hostel	

	room_type	bathrooms_text	\
54	Shared room	1 shared bath	
2887	Shared room	1 shared bath	
6735	Shared room	1 shared bath	
8898	Shared room	1 shared bath	
8899	Shared room	1 shared bath	

	amenities	has_availability	\
54	["Carbon monoxide alarm", "Hot water", "Fire e...	t	
2887	["Dedicated workspace", "Bidet", "Iron", "Hang...	t	
6735	["Dedicated workspace", "Iron", "Hangers", "Re...	t	
8898	["Smoke alarm", "Backyard", "Hair dryer", "Ded...	t	
8899	["Dedicated workspace", "Iron", "Smoke alarm", ...	t	

	calendar_last_scraped	first_review	last_review	license \
54	10/03/25	13/10/24	20/11/24	IT058091C23DBKKDMA
2887	05/03/25	10/10/15	03/07/23	UNKNOWN
6735	09/03/25	23/04/18	13/06/24	IT058091C2YSL7RK8
8898	15/03/25	28/02/20	02/12/24	IT058091B63X9S4V8Q
8899	11/03/25	16/11/19	04/03/25	IT058091B63X9S4V8Q

	instant_bookable	latitude	longitude	host_response_rate \
54	f	41.898362	12.557988	100.0
2887	f	41.879826	12.419312	100.0
6735	f	41.891670	12.529650	100.0
8898	t	41.904710	12.504440	96.3
8899	t	41.904710	12.504440	96.3

	host_acceptance_rate	review_scores_rating	review_scores_accuracy \
54	61.0	4.50	4.75
2887	57.0	4.96	4.96
6735	77.0	4.91	4.96
8898	90.0	4.63	4.59
8899	90.0	4.65	4.77

	review_scores_cleanliness	review_scores_checkin \
54	4.75	4.50
2887	4.96	4.96
6735	4.83	4.99
8898	4.37	4.80
8899	4.45	4.93

	review_scores_communication	review_scores_location \
54	4.75	4.25
2887	4.96	4.60
6735	5.00	4.84
8898	4.65	4.70
8899	4.85	4.72

	review_scores_value	bathrooms	host_listings_count \
54	4.75	1.0	2.0
2887	4.92	1.0	4.0
6735	4.89	1.0	3.0
8898	4.46	1.0	2.0
8899	4.57	1.0	2.0

	host_total_listings_count	accommodates	bedrooms	beds	price \
54	3.0	1.0	1.0	5.0	15.00
2887	6.0	2.0	1.0	2.0	10.00
6735	7.0	1.0	1.0	2.0	42.75
8898	3.0	1.0	1.0	1.0	48.00

8899	3.0	1.0	1.0	4.0	46.00
------	-----	-----	-----	-----	-------

	minimum_nights	maximum_nights	minimum_minimum_nights	\
54	1.0	365	1.0	
2887	2.0	360	2.0	
6735	3.0	31	2.0	
8898	1.0	15	1.0	
8899	1.0	15	1.0	

	maximum_minimum_nights	minimum_maximum_nights	maximum_maximum_nights	\
54	1.0	365	365.0	
2887	2.0	360	360.0	
6735	3.0	30	31.0	
8898	1.0	7	7.0	
8899	1.0	7	7.0	

	minimum_nights_avg_ntm	maximum_nights_avg_ntm	availability_30	\
54	1.0	365.0	30	
2887	2.0	360.0	0	
6735	3.0	31.0	0	
8898	1.0	7.0	29	
8899	1.0	7.0	20	

	availability_60	availability_90	availability_365	number_of_reviews	\
54	60	90	365	4.0	
2887	0	0	217	25.0	
6735	5	12	13	75.0	
8898	59	89	260	46.0	
8899	20	20	48	60.0	

	number_of_reviews_ltm	number_of_reviews_l30d	availability_eoy	\
54	4.0	0.0	297	
2887	0.0	0.0	154	
6735	1.0	0.0	13	
8898	6.0	0.0	260	
8899	36.0	0.0	48	

	number_of_reviews_ly	estimated_occupancy_l365d	\
54	4.0	24	
2887	0.0	0	
6735	1.0	6	
8898	14.0	36	
8899	16.0	216	

	estimated_revenue_l365d	calculated_host_listings_count	\
54	360.0	2.0	
2887	0.0	4.0	
6735	9408.0	3.0	

8898	1728.0	6.0
8899	9936.0	6.0

	calculated_host_listings_count_entire_homes \
54	1.0
2887	1.0
6735	1.0
8898	0.0
8899	0.0

	calculated_host_listings_count_private_rooms \
54	5.0
2887	2.0
6735	1.0
8898	2.0
8899	2.0

	calculated_host_listings_count_shared_rooms	reviews_per_month
54	0.0	0.81
2887	0.0	0.22
6735	0.0	0.90
8898	0.0	0.75
8899	0.0	0.93

```
[ ]: # Display the shape for each segmented dataframe
for room_type, df_room in room_type_dataframes.items():
    print(f"Shape of DataFrame '{room_type}': {df_room.shape}")
```

```
Shape of DataFrame 'Entire home/apt': (7286, 77)
Shape of DataFrame 'Hotel room': (397, 77)
Shape of DataFrame 'Private room': (2795, 77)
Shape of DataFrame 'Shared room': (11, 77)
```

## Correlación entre tipos de cuartos

Entire Home/apt

```
[ ]: # Select the columns of interest for correlation analysis in df_entire_home_ap
selected_columns_entire_home = [
    'host_acceptance_rate',
    'host_response_rate',
    'review_scores_rating',
    'calculated_host_listings_count',
    'price',
    'availability_365',
    'number_of_reviews',
    'reviews_per_month',
    'review_scores_communication'
]
```

```

# Create a subset of the dataframe with only the selected columns
df_entire_home_subset = df_entire_home_apt[selected_columns_entire_home]

# Calculate the correlation matrix
correlation_matrix_entire_home = df_entire_home_subset.corr()

# Create a DataFrame for the specific pairs requested by the user
correlation_results = pd.DataFrame({
    'Variable Pair': [
        'host_acceptance_rate vs host_response_rate',
        'review_scores_rating vs calculated_host_listings_count',
        'host_acceptance_rate vs price',
        'availability_365 vs number_of_reviews',
        'host_acceptance_rate vs number_of_reviews',
        'reviews_per_month vs review_scores_communication'
    ],
    'Correlation Coefficient': [
        correlation_matrix_entire_home.loc['host_acceptance_rate',
↪ 'host_response_rate'],
        correlation_matrix_entire_home.loc['review_scores_rating',
↪ 'calculated_host_listings_count'],
        correlation_matrix_entire_home.loc['host_acceptance_rate', 'price'],
        correlation_matrix_entire_home.loc['availability_365',
↪ 'number_of_reviews'],
        correlation_matrix_entire_home.loc['host_acceptance_rate',
↪ 'number_of_reviews'],
        correlation_matrix_entire_home.loc['reviews_per_month',
↪ 'review_scores_communication']
    ]
})

# Display the correlation results in a table
print("Correlation Analysis for 'Entire home/apt':")
display(correlation_results)

```

Correlation Analysis for 'Entire home/apt':

	Variable Pair	Correlation Coefficient
0	host_acceptance_rate vs host_response_rate	0.463039
1	review_scores_rating vs calculated_host_listin...	0.021812
2	host_acceptance_rate vs price	0.030330
3	availability_365 vs number_of_reviews	0.030915
4	host_acceptance_rate vs number_of_reviews	0.269903
5	reviews_per_month vs review_scores_communication	0.260001

Hotel room



```

[ ]: # Select the columns of interest for correlation analysis in df_hotel_room
selected_columns_hotel_room = [
    'host_acceptance_rate',
    'host_response_rate',
    'review_scores_rating',
    'calculated_host_listings_count',
    'price',
    'availability_365',
    'number_of_reviews',
    'reviews_per_month',
    'review_scores_communication'
]

# Create a subset of the dataframe with only the selected columns
df_hotel_room_subset = df_hotel_room[selected_columns_hotel_room]

# Calculate the correlation matrix
correlation_matrix_hotel_room = df_hotel_room_subset.corr()

# Create a DataFrame for the specific pairs requested by the user
correlation_results_hotel_room = pd.DataFrame({
    'Variable Pair': [
        'host_acceptance_rate vs host_response_rate',
        'review_scores_rating vs calculated_host_listings_count',
        'host_acceptance_rate vs price',
        'availability_365 vs number_of_reviews',
        'host_acceptance_rate vs number_of_reviews',
        'reviews_per_month vs review_scores_communication'
    ],
    'Correlation Coefficient': [
        correlation_matrix_hotel_room.loc['host_acceptance_rate',
↪ 'host_response_rate'],
        correlation_matrix_hotel_room.loc['review_scores_rating',
↪ 'calculated_host_listings_count'],
        correlation_matrix_hotel_room.loc['host_acceptance_rate', 'price'],
        correlation_matrix_hotel_room.loc['availability_365',
↪ 'number_of_reviews'],
        correlation_matrix_hotel_room.loc['host_acceptance_rate',
↪ 'number_of_reviews'],
        correlation_matrix_hotel_room.loc['reviews_per_month',
↪ 'review_scores_communication']
    ]
})

# Display the correlation results in a table
print("Correlation Analysis for 'Hotel room':")
display(correlation_results_hotel_room)

```

Correlation Analysis for 'Hotel room':

	Variable Pair	Correlation Coefficient
0	host_acceptance_rate vs host_response_rate	0.635126
1	review_scores_rating vs calculated_host_listin...	0.082295
2	host_acceptance_rate vs price	-0.091376
3	availability_365 vs number_of_reviews	0.020023
4	host_acceptance_rate vs number_of_reviews	0.189406
5	reviews_per_month vs review_scores_communication	0.307538

Private room

```
[ ]: # Select the columns of interest for correlation analysis in df_private_room
selected_columns_private_room = [
    'host_acceptance_rate',
    'host_response_rate',
    'review_scores_rating',
    'calculated_host_listings_count',
    'price',
    'availability_365',
    'number_of_reviews',
    'reviews_per_month',
    'review_scores_communication'
]

# Create a subset of the dataframe with only the selected columns
df_private_room_subset = df_private_room[selected_columns_private_room]

# Calculate the correlation matrix
correlation_matrix_private_room = df_private_room_subset.corr()

# Create a DataFrame for the specific pairs requested by the user
correlation_results_private_room = pd.DataFrame({
    'Variable Pair': [
        'host_acceptance_rate vs host_response_rate',
        'review_scores_rating vs calculated_host_listings_count',
        'host_acceptance_rate vs price',
        'availability_365 vs number_of_reviews',
        'host_acceptance_rate vs number_of_reviews',
        'reviews_per_month vs review_scores_communication'
    ],
    'Correlation Coefficient': [
        correlation_matrix_private_room.loc['host_acceptance_rate',
↪ 'host_response_rate'],
        correlation_matrix_private_room.loc['review_scores_rating',
↪ 'calculated_host_listings_count'],
        correlation_matrix_private_room.loc['host_acceptance_rate', 'price'],

```

```

        correlation_matrix_private_room.loc['availability_365',
↪ 'number_of_reviews'],
        correlation_matrix_private_room.loc['host_acceptance_rate',
↪ 'number_of_reviews'],
        correlation_matrix_private_room.loc['reviews_per_month',
↪ 'review_scores_communication']
    ]
})

# Display the correlation results in a table
print("Correlation Analysis for 'Private room':")
display(correlation_results_private_room)

```

Correlation Analysis for 'Private room':

	Variable Pair	Correlation Coefficient
0	host_acceptance_rate vs host_response_rate	0.343327
1	review_scores_rating vs calculated_host_listin...	0.002786
2	host_acceptance_rate vs price	0.034041
3	availability_365 vs number_of_reviews	-0.032323
4	host_acceptance_rate vs number_of_reviews	0.152959
5	reviews_per_month vs review_scores_communication	0.429564

Shared room

```

[ ]: # Select the columns of interest for correlation analysis in df_shared_room
selected_columns_shared_room = [
    'host_acceptance_rate',
    'host_response_rate',
    'review_scores_rating',
    'calculated_host_listings_count',
    'price',
    'availability_365',
    'number_of_reviews',
    'reviews_per_month',
    'review_scores_communication'
]

# Create a subset of the dataframe with only the selected columns
df_shared_room_subset = df_shared_room[selected_columns_shared_room]

# Calculate the correlation matrix
correlation_matrix_shared_room = df_shared_room_subset.corr()

# Create a DataFrame for the specific pairs requested by the user
correlation_results_shared_room = pd.DataFrame({
    'Variable Pair': [
        'host_acceptance_rate vs host_response_rate',

```

```

        'review_scores_rating vs calculated_host_listings_count',
        'host_acceptance_rate vs price',
        'availability_365 vs number_of_reviews',
        'host_acceptance_rate vs number_of_reviews',
        'reviews_per_month vs review_scores_communication'
    ],
    'Correlation Coefficient': [
        correlation_matrix_shared_room.loc['host_acceptance_rate',
↪ 'host_response_rate'],
        correlation_matrix_shared_room.loc['review_scores_rating',
↪ 'calculated_host_listings_count'],
        correlation_matrix_shared_room.loc['host_acceptance_rate', 'price'],
        correlation_matrix_shared_room.loc['availability_365',
↪ 'number_of_reviews'],
        correlation_matrix_shared_room.loc['host_acceptance_rate',
↪ 'number_of_reviews'],
        correlation_matrix_shared_room.loc['reviews_per_month',
↪ 'review_scores_communication']
    ]
})

# Display the correlation results in a table
print("Correlation Analysis for 'Shared room':")
display(correlation_results_shared_room)

```

Correlation Analysis for 'Shared room':

	Variable Pair	Correlation Coefficient
0	host_acceptance_rate vs host_response_rate	-0.045103
1	review_scores_rating vs calculated_host_listin...	0.092545
2	host_acceptance_rate vs price	0.289641
3	availability_365 vs number_of_reviews	-0.336913
4	host_acceptance_rate vs number_of_reviews	0.122498
5	reviews_per_month vs review_scores_communication	0.657782

Par de variables con mayor variabilidad: host\_acceptance\_rate vs host\_response\_rate (diferencia 0.682), entre correlación menor y mayor

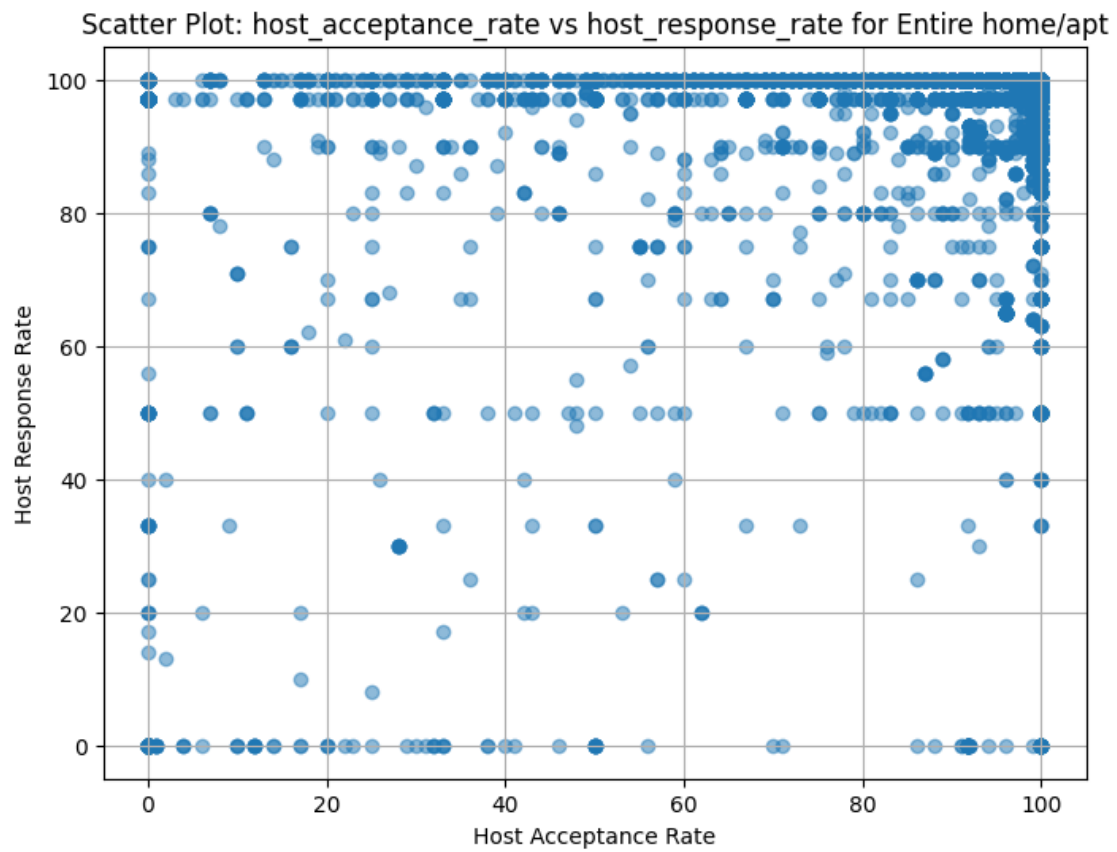
```

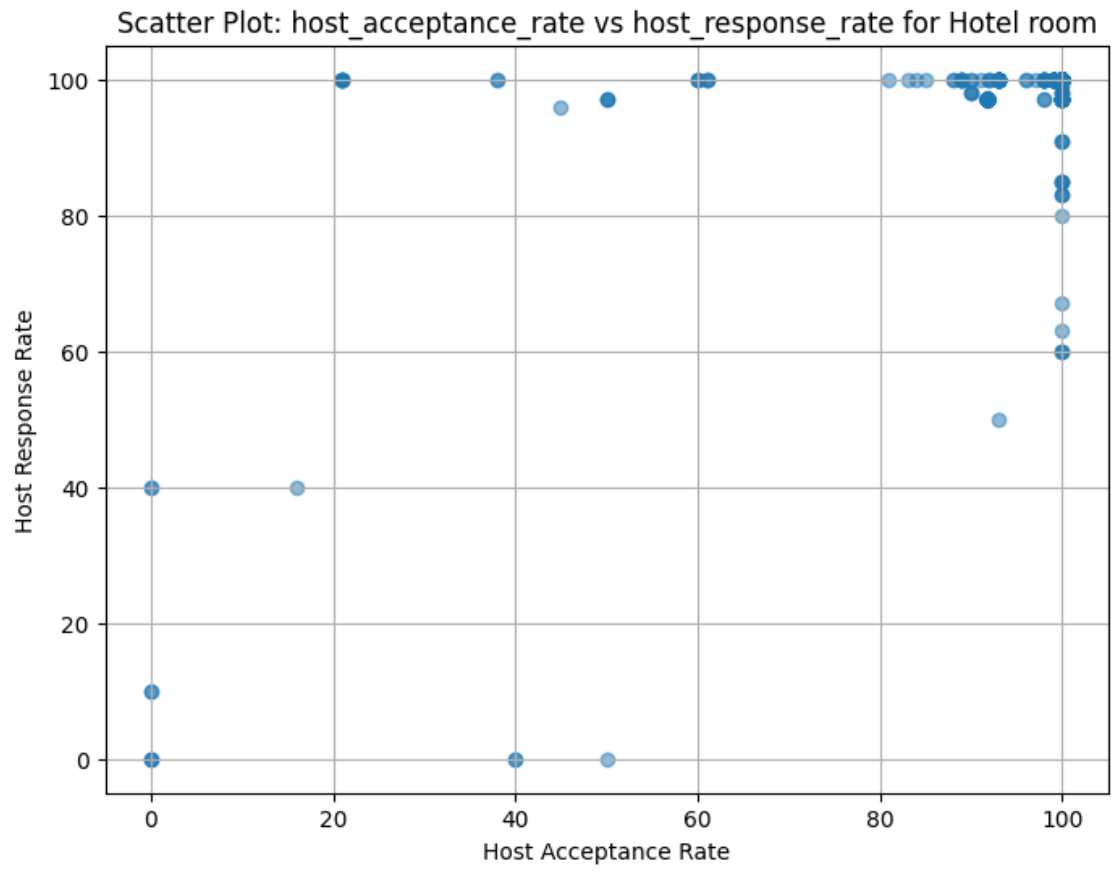
[ ]: import matplotlib.pyplot as plt

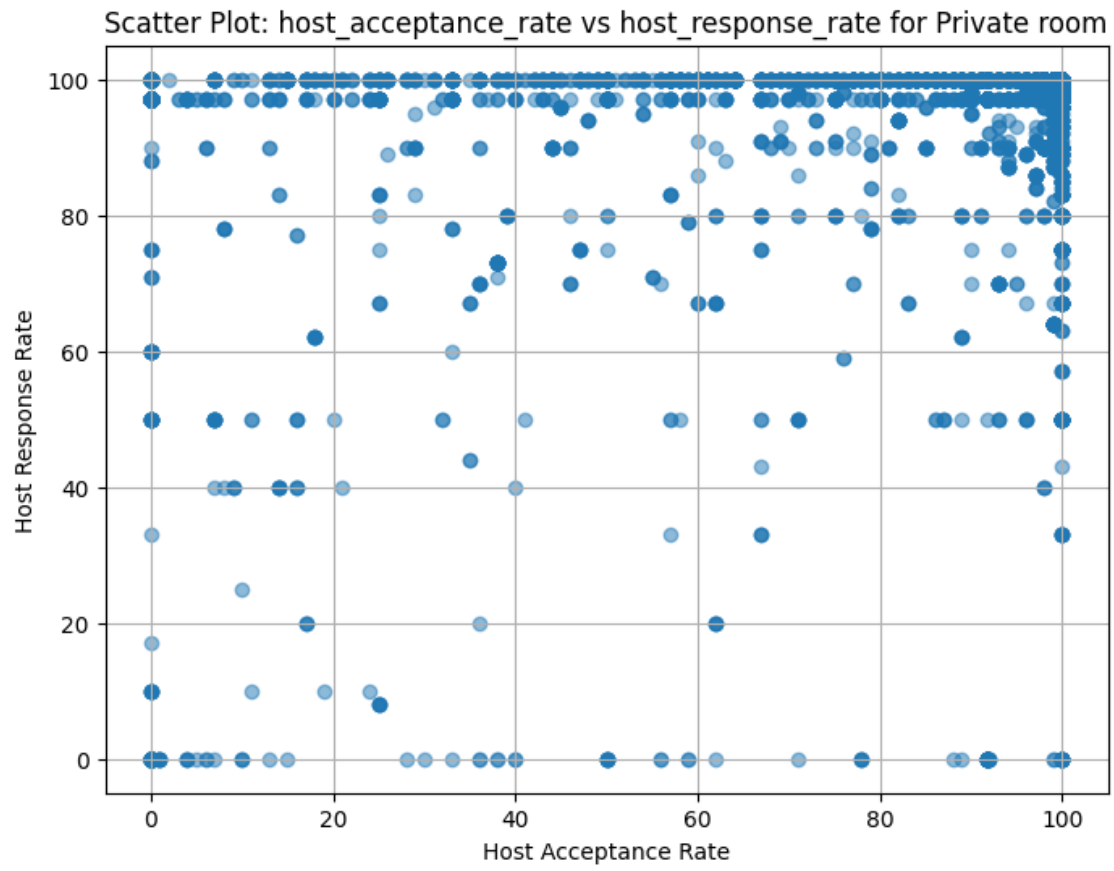
# Iterate through the room type dataframes and generate scatter plots
for room_type, df_room in room_type_dataframes.items():
    plt.figure(figsize=(8, 6))
    plt.scatter(df_room['host_acceptance_rate'], df_room['host_response_rate'],
↪ alpha=0.5)
    plt.title(f'Scatter Plot: host_acceptance_rate vs host_response_rate for
↪ {room_type}')
    plt.xlabel('Host Acceptance Rate')

```

```
plt.ylabel('Host Response Rate')  
plt.grid(True)  
plt.show()
```







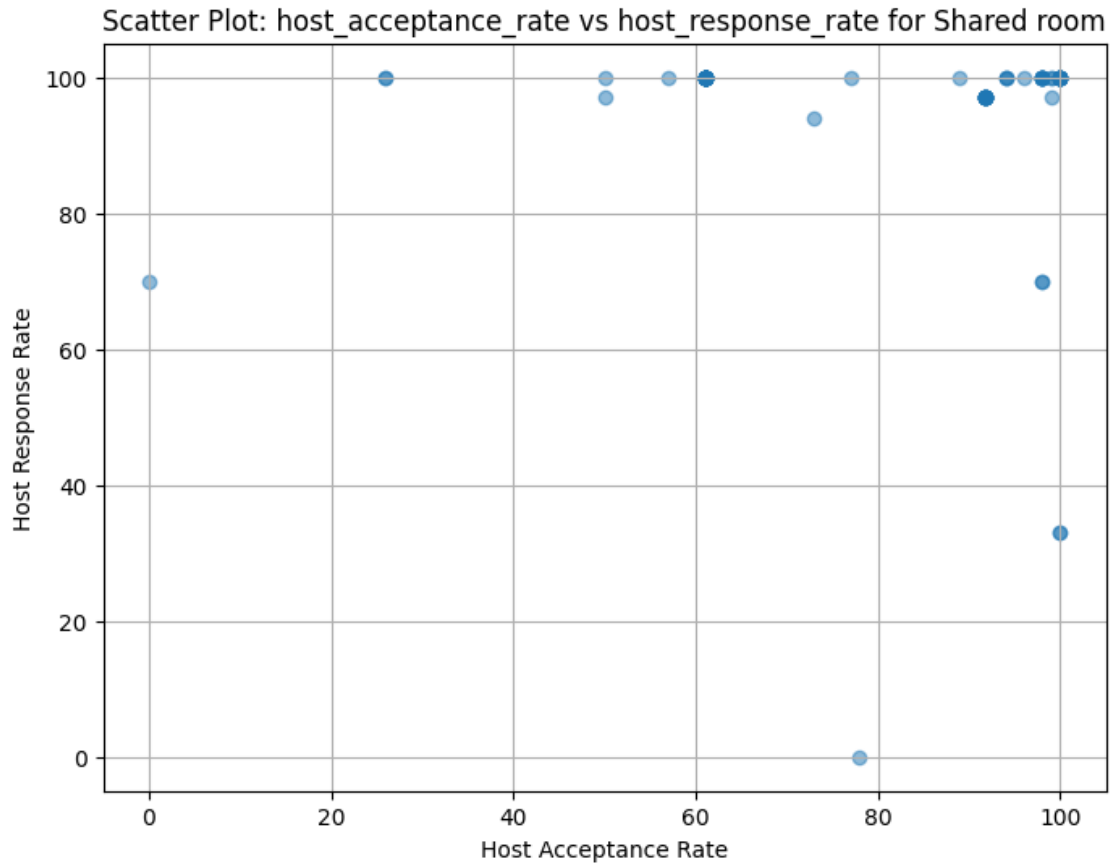


Tabla de 10 variables con mayor correlación por tipo de cuarto (-90%)

```
[ ]: # Select only numeric columns for correlation calculation for each room type
numeric_df_entire_home = df_entire_home_apt.select_dtypes(include=np.number)
numeric_df_hotel_room = df_hotel_room.select_dtypes(include=np.number)
numeric_df_private_room = df_private_room.select_dtypes(include=np.number)
numeric_df_shared_room = df_shared_room.select_dtypes(include=np.number)

# Calculate the correlation matrix for each room type
correlation_matrix_entire_home = numeric_df_entire_home.corr()
correlation_matrix_hotel_room = numeric_df_hotel_room.corr()
correlation_matrix_private_room = numeric_df_private_room.corr()
correlation_matrix_shared_room = numeric_df_shared_room.corr()

# Display the full correlation matrices
print("Full Correlation Matrix for 'Entire home/apt':")
display(correlation_matrix_entire_home)

print("\n" + "="*50 + "\n") # Separator for better readability
```



```

print("Full Correlation Matrix for 'Hotel room':")
display(correlation_matrix_hotel_room)

print("\n" + "="*50 + "\n") # Separator for better readability

print("Full Correlation Matrix for 'Private room':")
display(correlation_matrix_private_room)

print("\n" + "="*50 + "\n") # Separator for better readability

print("Full Correlation Matrix for 'Shared room':")
display(correlation_matrix_shared_room)

```

Full Correlation Matrix for 'Entire home/apt':

	id	scrape_id	host_id	\
id	1.000000	NaN	0.488926	
scrape_id	NaN	NaN	NaN	
host_id	0.488926	NaN	1.000000	
latitude	-0.030414	NaN	-0.052628	
longitude	0.025484	NaN	0.006649	
host_response_rate	0.039119	NaN	0.008044	
host_acceptance_rate	0.050154	NaN	0.034011	
review_scores_rating	-0.290047	NaN	-0.155461	
review_scores_accuracy	-0.293661	NaN	-0.159108	
review_scores_cleanliness	-0.288339	NaN	-0.155104	
review_scores_checkin	-0.303004	NaN	-0.164202	
review_scores_communication	-0.300866	NaN	-0.163625	
review_scores_location	-0.306271	NaN	-0.172410	
review_scores_value	-0.295574	NaN	-0.158108	
bathrooms	-0.034837	NaN	-0.048447	
host_listings_count	-0.066502	NaN	-0.142061	
host_total_listings_count	-0.083069	NaN	-0.152813	
accommodates	0.017491	NaN	0.029328	
bedrooms	0.011972	NaN	0.005603	
beds	-0.049393	NaN	-0.007134	
price	-0.103537	NaN	-0.076648	
minimum_nights	-0.223795	NaN	-0.165431	
maximum_nights	0.253969	NaN	0.072623	
minimum_minimum_nights	-0.044181	NaN	-0.031683	
maximum_minimum_nights	-0.154597	NaN	-0.164688	
minimum_maximum_nights	-0.333968	NaN	-0.197685	
maximum_maximum_nights	-0.321722	NaN	-0.215396	
minimum_nights_avg_ntm	-0.191816	NaN	-0.174273	
maximum_nights_avg_ntm	-0.338408	NaN	-0.210699	
availability_30	0.165352	NaN	0.127964	
availability_60	0.178684	NaN	0.120219	
availability_90	0.193230	NaN	0.124384	

availability_365	0.107908	NaN	0.076219
number_of_reviews	-0.381507	NaN	-0.186572
number_of_reviews_ltm	-0.195249	NaN	-0.109591
number_of_reviews_l30d	0.004174	NaN	-0.004463
availability_eoy	0.136637	NaN	0.089029
number_of_reviews_ly	-0.224589	NaN	-0.125306
estimated_occupancy_l365d	-0.246896	NaN	-0.139652
estimated_revenue_l365d	-0.234694	NaN	-0.139983
calculated_host_listings_count	-0.065046	NaN	-0.144878
calculated_host_listings_count_entire_homes	-0.099660	NaN	-0.083771
calculated_host_listings_count_private_rooms	-0.018594	NaN	-0.060000
calculated_host_listings_count_shared_rooms	NaN	NaN	NaN
reviews_per_month	-0.086417	NaN	-0.054435

	latitude	longitude	\
id	-0.030414	0.025484	
scrape_id	NaN	NaN	
host_id	-0.052628	0.006649	
latitude	1.000000	0.370155	
longitude	0.370155	1.000000	
host_response_rate	0.026823	0.020247	
host_acceptance_rate	0.042264	0.006910	
review_scores_rating	0.009496	-0.002534	
review_scores_accuracy	0.008936	-0.001892	
review_scores_cleanliness	0.007523	-0.002986	
review_scores_checkin	0.009694	-0.001839	
review_scores_communication	0.009723	-0.001511	
review_scores_location	0.021226	-0.014389	
review_scores_value	0.009627	-0.003546	
bathrooms	0.055303	-0.012176	
host_listings_count	0.062440	0.011222	
host_total_listings_count	0.059045	0.000342	
accommodates	0.013848	-0.027183	
bedrooms	0.015500	-0.017058	
beds	0.005627	-0.031782	
price	0.130023	-0.014816	
minimum_nights	0.017404	-0.014675	
maximum_nights	0.023275	0.003027	
minimum_minimum_nights	0.005436	-0.009538	
maximum_minimum_nights	0.049313	-0.010633	
minimum_maximum_nights	0.037109	0.005975	
maximum_maximum_nights	0.044539	0.006194	
minimum_nights_avg_ntm	0.030736	-0.008570	
maximum_nights_avg_ntm	0.041402	0.007372	
availability_30	-0.057859	-0.017738	
availability_60	-0.059093	-0.026699	
availability_90	-0.062035	-0.026762	
availability_365	-0.016721	-0.008550	

number_of_reviews	0.036009	0.011438
number_of_reviews_ltm	0.042400	0.036330
number_of_reviews_l30d	0.019957	0.014685
availability_eoy	-0.022017	-0.010317
number_of_reviews_ly	0.041422	0.033945
estimated_occupancy_l365d	0.052887	0.046105
estimated_revenue_l365d	0.066783	0.026142
calculated_host_listings_count	0.063107	-0.000071
calculated_host_listings_count_entire_homes	0.041239	-0.011937
calculated_host_listings_count_private_rooms	0.033883	0.011862
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	0.046887	0.046807

	host_response_rate	\
id	0.039119	
scrape_id	NaN	
host_id	0.008044	
latitude	0.026823	
longitude	0.020247	
host_response_rate	1.000000	
host_acceptance_rate	0.376109	
review_scores_rating	0.093555	
review_scores_accuracy	0.091355	
review_scores_cleanliness	0.091399	
review_scores_checkin	0.090786	
review_scores_communication	0.092158	
review_scores_location	0.089134	
review_scores_value	0.091691	
bathrooms	0.009271	
host_listings_count	-0.004073	
host_total_listings_count	-0.010463	
accommodates	0.007806	
bedrooms	-0.000064	
beds	0.008981	
price	-0.018052	
minimum_nights	0.021685	
maximum_nights	-0.052806	
minimum_minimum_nights	0.078676	
maximum_minimum_nights	0.031116	
minimum_maximum_nights	-0.011195	
maximum_maximum_nights	0.002165	
minimum_nights_avg_ntm	0.026767	
maximum_nights_avg_ntm	-0.005412	
availability_30	-0.051768	
availability_60	-0.049386	
availability_90	-0.041468	
availability_365	-0.018607	
number_of_reviews	0.079804	

number_of_reviews_ltm	0.127598
number_of_reviews_l30d	0.082316
availability_eoy	-0.017922
number_of_reviews_ly	0.119950
estimated_occupancy_l365d	0.119532
estimated_revenue_l365d	0.104323
calculated_host_listings_count	0.003599
calculated_host_listings_count_entire_homes	-0.043174
calculated_host_listings_count_private_rooms	-0.018494
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.142804

	host_acceptance_rate \
id	0.050154
scrape_id	NaN
host_id	0.034011
latitude	0.042264
longitude	0.006910
host_response_rate	0.376109
host_acceptance_rate	1.000000
review_scores_rating	0.168657
review_scores_accuracy	0.168832
review_scores_cleanliness	0.170752
review_scores_checkin	0.165682
review_scores_communication	0.166534
review_scores_location	0.171083
review_scores_value	0.168857
bathrooms	0.015827
host_listings_count	0.056046
host_total_listings_count	0.023276
accommodates	0.035875
bedrooms	0.014208
beds	0.024038
price	-0.005187
minimum_nights	-0.033820
maximum_nights	-0.053576
minimum_minimum_nights	0.055028
maximum_minimum_nights	0.059129
minimum_maximum_nights	0.039834
maximum_maximum_nights	0.069601
minimum_nights_avg_ntm	0.012786
maximum_nights_avg_ntm	0.053807
availability_30	-0.115113
availability_60	-0.104289
availability_90	-0.088599
availability_365	-0.034992
number_of_reviews	0.125566
number_of_reviews_ltm	0.209193

number_of_reviews_130d	0.120681
availability_eoy	-0.028665
number_of_reviews_ly	0.199090
estimated_occupancy_1365d	0.210670
estimated_revenue_1365d	0.180457
calculated_host_listings_count	0.055675
calculated_host_listings_count_entire_homes	0.013311
calculated_host_listings_count_private_rooms	-0.018474
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.238096

	review_scores_rating \
id	-0.290047
scrape_id	NaN
host_id	-0.155461
latitude	0.009496
longitude	-0.002534
host_response_rate	0.093555
host_acceptance_rate	0.168657
review_scores_rating	1.000000
review_scores_accuracy	0.995300
review_scores_cleanliness	0.993360
review_scores_checkin	0.991210
review_scores_communication	0.993100
review_scores_location	0.984583
review_scores_value	0.994133
bathrooms	-0.003171
host_listings_count	0.021269
host_total_listings_count	0.025290
accommodates	0.009438
bedrooms	-0.007010
beds	0.020236
price	-0.043828
minimum_nights	0.102217
maximum_nights	-0.138982
minimum_minimum_nights	0.080113
maximum_minimum_nights	0.096996
minimum_maximum_nights	0.136634
maximum_maximum_nights	0.138917
minimum_nights_avg_ntm	0.097977
maximum_nights_avg_ntm	0.142646
availability_30	-0.139394
availability_60	-0.139776
availability_90	-0.129344
availability_365	-0.072311
number_of_reviews	0.312363
number_of_reviews_ltm	0.357230
number_of_reviews_130d	0.207085

availability_eoy	-0.073516
number_of_reviews_ly	0.340197
estimated_occupancy_1365d	0.399775
estimated_revenue_1365d	0.358252
calculated_host_listings_count	0.007894
calculated_host_listings_count_entire_homes	0.022326
calculated_host_listings_count_private_rooms	-0.039049
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.438760

	review_scores_accuracy \
id	-0.293661
scrape_id	NaN
host_id	-0.159108
latitude	0.008936
longitude	-0.001892
host_response_rate	0.091355
host_acceptance_rate	0.168832
review_scores_rating	0.995300
review_scores_accuracy	1.000000
review_scores_cleanliness	0.992693
review_scores_checkin	0.991611
review_scores_communication	0.993160
review_scores_location	0.985365
review_scores_value	0.993322
bathrooms	-0.006073
host_listings_count	0.022589
host_total_listings_count	0.025330
accommodates	0.008949
bedrooms	-0.007662
beds	0.019539
price	-0.046742
minimum_nights	0.099900
maximum_nights	-0.137912
minimum_minimum_nights	0.078105
maximum_minimum_nights	0.096985
minimum_maximum_nights	0.137217
maximum_maximum_nights	0.139943
minimum_nights_avg_ntm	0.097195
maximum_nights_avg_ntm	0.143549
availability_30	-0.140315
availability_60	-0.140065
availability_90	-0.129265
availability_365	-0.073370
number_of_reviews	0.314130
number_of_reviews_ltm	0.357015
number_of_reviews_130d	0.207645
availability_eoy	-0.074337

number_of_reviews_ly	0.340193
estimated_occupancy_1365d	0.399354
estimated_revenue_1365d	0.357802
calculated_host_listings_count	0.009332
calculated_host_listings_count_entire_homes	0.022143
calculated_host_listings_count_private_rooms	-0.036028
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.438412

	review_scores_cleanliness \
id	-0.288339
scrape_id	NaN
host_id	-0.155104
latitude	0.007523
longitude	-0.002986
host_response_rate	0.091399
host_acceptance_rate	0.170752
review_scores_rating	0.993360
review_scores_accuracy	0.992693
review_scores_cleanliness	1.000000
review_scores_checkin	0.988729
review_scores_communication	0.989774
review_scores_location	0.982081
review_scores_value	0.990967
bathrooms	-0.004913
host_listings_count	0.022790
host_total_listings_count	0.025463
accommodates	0.008957
bedrooms	-0.007806
beds	0.019548
price	-0.044839
minimum_nights	0.097868
maximum_nights	-0.138086
minimum_minimum_nights	0.078293
maximum_minimum_nights	0.095197
minimum_maximum_nights	0.135945
maximum_maximum_nights	0.139484
minimum_nights_avg_ntm	0.094802
maximum_nights_avg_ntm	0.142589
availability_30	-0.136739
availability_60	-0.136618
availability_90	-0.126165
availability_365	-0.070206
number_of_reviews	0.310022
number_of_reviews_ltm	0.353552
number_of_reviews_130d	0.205929
availability_eoy	-0.070939
number_of_reviews_ly	0.336546

estimated_occupancy_1365d	0.395222
estimated_revenue_1365d	0.354439
calculated_host_listings_count	0.011094
calculated_host_listings_count_entire_homes	0.023605
calculated_host_listings_count_private_rooms	-0.035280
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.435922

	review_scores_checkin \
id	-0.303004
scrape_id	NaN
host_id	-0.164202
latitude	0.009694
longitude	-0.001839
host_response_rate	0.090786
host_acceptance_rate	0.165682
review_scores_rating	0.991210
review_scores_accuracy	0.991611
review_scores_cleanliness	0.988729
review_scores_checkin	1.000000
review_scores_communication	0.994378
review_scores_location	0.985915
review_scores_value	0.988725
bathrooms	-0.005625
host_listings_count	0.026427
host_total_listings_count	0.030852
accommodates	0.008403
bedrooms	-0.008006
beds	0.020914
price	-0.045674
minimum_nights	0.103115
maximum_nights	-0.136638
minimum_minimum_nights	0.077850
maximum_minimum_nights	0.098614
minimum_maximum_nights	0.141406
maximum_maximum_nights	0.143189
minimum_nights_avg_ntm	0.099508
maximum_nights_avg_ntm	0.147332
availability_30	-0.139058
availability_60	-0.138841
availability_90	-0.128300
availability_365	-0.071525
number_of_reviews	0.315378
number_of_reviews_ltm	0.354866
number_of_reviews_l30d	0.205202
availability_eoy	-0.072997
number_of_reviews_ly	0.338911
estimated_occupancy_1365d	0.398212



estimated_revenue_1365d	0.356846
calculated_host_listings_count	0.014904
calculated_host_listings_count_entire_homes	0.027115
calculated_host_listings_count_private_rooms	-0.033011
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.434037

	review_scores_communication \
id	-0.300866
scrape_id	NaN
host_id	-0.163625
latitude	0.009723
longitude	-0.001511
host_response_rate	0.092158
host_acceptance_rate	0.166534
review_scores_rating	0.993100
review_scores_accuracy	0.993160
review_scores_cleanliness	0.989774
review_scores_checkin	0.994378
review_scores_communication	1.000000
review_scores_location	0.985767
review_scores_value	0.990299
bathrooms	-0.007391
host_listings_count	0.025713
host_total_listings_count	0.030445
accommodates	0.006595
bedrooms	-0.009934
beds	0.019162
price	-0.049180
minimum_nights	0.102146
maximum_nights	-0.138357
minimum_minimum_nights	0.077340
maximum_minimum_nights	0.097836
minimum_maximum_nights	0.140923
maximum_maximum_nights	0.143638
minimum_nights_avg_ntm	0.097981
maximum_nights_avg_ntm	0.147184
availability_30	-0.139909
availability_60	-0.139453
availability_90	-0.128815
availability_365	-0.072844
number_of_reviews	0.316792
number_of_reviews_ltm	0.358154
number_of_reviews_130d	0.205972
availability_eoy	-0.073997
number_of_reviews_ly	0.341842
estimated_occupancy_1365d	0.401260
estimated_revenue_1365d	0.359065

calculated_host_listings_count	0.013902
calculated_host_listings_count_entire_homes	0.025931
calculated_host_listings_count_private_rooms	-0.034480
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.437758

	review_scores_location \
id	-0.306271
scrape_id	NaN
host_id	-0.172410
latitude	0.021226
longitude	-0.014389
host_response_rate	0.089134
host_acceptance_rate	0.171083
review_scores_rating	0.984583
review_scores_accuracy	0.985365
review_scores_cleanliness	0.982081
review_scores_checkin	0.985915
review_scores_communication	0.985767
review_scores_location	1.000000
review_scores_value	0.983945
bathrooms	0.004379
host_listings_count	0.039923
host_total_listings_count	0.042361
accommodates	0.015842
bedrooms	-0.003819
beds	0.023806
price	-0.015130
minimum_nights	0.097437
maximum_nights	-0.127653
minimum_minimum_nights	0.069104
maximum_minimum_nights	0.103186
minimum_maximum_nights	0.143959
maximum_maximum_nights	0.149465
minimum_nights_avg_ntm	0.099050
maximum_nights_avg_ntm	0.151906
availability_30	-0.150808
availability_60	-0.148752
availability_90	-0.137868
availability_365	-0.075612
number_of_reviews	0.316612
number_of_reviews_ltm	0.356070
number_of_reviews_l30d	0.211847
availability_eoy	-0.077167
number_of_reviews_ly	0.339265
estimated_occupancy_l365d	0.400656
estimated_revenue_l365d	0.366642
calculated_host_listings_count	0.029279

calculated_host_listings_count_entire_homes	0.035337
calculated_host_listings_count_private_rooms	-0.026073
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.438267

	review_scores_value	bathrooms \
id	-0.295574	-0.034837
scrape_id	NaN	NaN
host_id	-0.158108	-0.048447
latitude	0.009627	0.055303
longitude	-0.003546	-0.012176
host_response_rate	0.091691	0.009271
host_acceptance_rate	0.168857	0.015827
review_scores_rating	0.994133	-0.003171
review_scores_accuracy	0.993322	-0.006073
review_scores_cleanliness	0.990967	-0.004913
review_scores_checkin	0.988725	-0.005625
review_scores_communication	0.990299	-0.007391
review_scores_location	0.983945	0.004379
review_scores_value	1.000000	0.000095
bathrooms	0.000095	1.000000
host_listings_count	0.021085	0.083713
host_total_listings_count	0.025281	0.087532
accommodates	0.015386	0.329524
bedrooms	-0.000925	0.367005
beds	0.025988	0.400249
price	-0.042333	0.212683
minimum_nights	0.104335	0.031336
maximum_nights	-0.140350	0.014516
minimum_minimum_nights	0.079090	0.017056
maximum_minimum_nights	0.096454	0.059939
minimum_maximum_nights	0.140008	0.013809
maximum_maximum_nights	0.141252	0.026384
minimum_nights_avg_ntm	0.098527	0.049491
maximum_nights_avg_ntm	0.145836	0.018847
availability_30	-0.143196	0.012487
availability_60	-0.144997	0.008937
availability_90	-0.134597	-0.001556
availability_365	-0.073673	0.037076
number_of_reviews	0.314464	0.014609
number_of_reviews_ltm	0.358247	-0.008666
number_of_reviews_l30d	0.209242	0.009199
availability_eoy	-0.075712	0.026149
number_of_reviews_ly	0.340764	-0.004359
estimated_occupancy_l365d	0.401644	-0.025315
estimated_revenue_l365d	0.359580	-0.000298
calculated_host_listings_count	0.007828	0.091876
calculated_host_listings_count_entire_homes	0.023726	0.038436

calculated_host_listings_count_private_rooms	-0.038983	0.090739
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	0.442164	-0.024083

	host_listings_count	\
id	-0.066502	
scrape_id	NaN	
host_id	-0.142061	
latitude	0.062440	
longitude	0.011222	
host_response_rate	-0.004073	
host_acceptance_rate	0.056046	
review_scores_rating	0.021269	
review_scores_accuracy	0.022589	
review_scores_cleanliness	0.022790	
review_scores_checkin	0.026427	
review_scores_communication	0.025713	
review_scores_location	0.039923	
review_scores_value	0.021085	
bathrooms	0.083713	
host_listings_count	1.000000	
host_total_listings_count	0.789796	
accommodates	0.043897	
bedrooms	0.011848	
beds	0.029562	
price	0.088841	
minimum_nights	-0.065018	
maximum_nights	0.102407	
minimum_minimum_nights	-0.085217	
maximum_minimum_nights	0.013858	
minimum_maximum_nights	0.059114	
maximum_maximum_nights	0.094125	
minimum_nights_avg_ntm	-0.013033	
maximum_nights_avg_ntm	0.078382	
availability_30	-0.051516	
availability_60	-0.017414	
availability_90	-0.007524	
availability_365	0.022493	
number_of_reviews	0.039487	
number_of_reviews_ltm	0.034210	
number_of_reviews_l30d	0.016454	
availability_eoy	0.026919	
number_of_reviews_ly	0.032299	
estimated_occupancy_l365d	0.054567	
estimated_revenue_l365d	0.062837	
calculated_host_listings_count	0.735923	
calculated_host_listings_count_entire_homes	0.332611	
calculated_host_listings_count_private_rooms	0.184281	

calculated\_host\_listings\_count\_shared\_rooms  
 reviews\_per\_month

NaN  
 0.053901

	host_total_listings_count \
id	-0.083069
scrape_id	NaN
host_id	-0.152813
latitude	0.059045
longitude	0.000342
host_response_rate	-0.010463
host_acceptance_rate	0.023276
review_scores_rating	0.025290
review_scores_accuracy	0.025330
review_scores_cleanliness	0.025463
review_scores_checkin	0.030852
review_scores_communication	0.030445
review_scores_location	0.042361
review_scores_value	0.025281
bathrooms	0.087532
host_listings_count	0.789796
host_total_listings_count	1.000000
accommodates	0.033411
bedrooms	0.010084
beds	0.028223
price	0.076931
minimum_nights	-0.020100
maximum_nights	0.107936
minimum_minimum_nights	-0.070997
maximum_minimum_nights	0.028247
minimum_maximum_nights	0.051975
maximum_maximum_nights	0.069844
minimum_nights_avg_ntm	0.005064
maximum_nights_avg_ntm	0.064077
availability_30	-0.042402
availability_60	-0.012874
availability_90	-0.006363
availability_365	0.010601
number_of_reviews	0.042447
number_of_reviews_ltm	0.036502
number_of_reviews_l30d	0.012830
availability_eoy	0.011963
number_of_reviews_ly	0.033046
estimated_occupancy_l365d	0.057951
estimated_revenue_l365d	0.062695
calculated_host_listings_count	0.672481
calculated_host_listings_count_entire_homes	0.355429
calculated_host_listings_count_private_rooms	0.166371
calculated_host_listings_count_shared_rooms	NaN

reviews_per_month	0.047003
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	accommodates	bedrooms	\
id	0.017491	0.011972	
scrape_id	NaN	NaN	
host_id	0.029328	0.005603	
latitude	0.013848	0.015500	
longitude	-0.027183	-0.017058	
host_response_rate	0.007806	-0.000064	
host_acceptance_rate	0.035875	0.014208	
review_scores_rating	0.009438	-0.007010	
review_scores_accuracy	0.008949	-0.007662	
review_scores_cleanliness	0.008957	-0.007806	
review_scores_checkin	0.008403	-0.008006	
review_scores_communication	0.006595	-0.009934	
review_scores_location	0.015842	-0.003819	
review_scores_value	0.015386	-0.000925	
bathrooms	0.329524	0.367005	
host_listings_count	0.043897	0.011848	
host_total_listings_count	0.033411	0.010084	
accommodates	1.000000	0.613939	
bedrooms	0.613939	1.000000	
beds	0.571146	0.538399	
price	0.274585	0.300008	
minimum_nights	-0.051577	0.016587	
maximum_nights	0.025292	0.015621	
minimum_minimum_nights	-0.011468	0.010515	
maximum_minimum_nights	0.009573	0.039548	
minimum_maximum_nights	0.011206	0.000585	
maximum_maximum_nights	0.026529	0.009058	
minimum_nights_avg_ntm	-0.018014	0.028718	
maximum_nights_avg_ntm	0.018513	0.005562	
availability_30	0.025269	0.008798	
availability_60	0.011422	-0.010313	
availability_90	0.014489	-0.015145	
availability_365	0.020650	0.000927	
number_of_reviews	-0.004440	-0.001225	
number_of_reviews_ltm	-0.030880	-0.020305	
number_of_reviews_l30d	0.006498	-0.002133	
availability_eoy	0.019282	-0.004527	
number_of_reviews_ly	-0.028578	-0.018646	
estimated_occupancy_l365d	-0.062551	-0.034826	
estimated_revenue_l365d	-0.020683	-0.012010	
calculated_host_listings_count	0.039771	0.012945	
calculated_host_listings_count_entire_homes	0.009892	-0.016314	
calculated_host_listings_count_private_rooms	0.028861	0.041966	
calculated_host_listings_count_shared_rooms	NaN	NaN	
reviews_per_month	-0.027691	-0.019551	

	beds	price \
id	-0.049393	-0.103537
scrape_id	NaN	NaN
host_id	-0.007134	-0.076648
latitude	0.005627	0.130023
longitude	-0.031782	-0.014816
host_response_rate	0.008981	-0.018052
host_acceptance_rate	0.024038	-0.005187
review_scores_rating	0.020236	-0.043828
review_scores_accuracy	0.019539	-0.046742
review_scores_cleanliness	0.019548	-0.044839
review_scores_checkin	0.020914	-0.045674
review_scores_communication	0.019162	-0.049180
review_scores_location	0.023806	-0.015130
review_scores_value	0.025988	-0.042333
bathrooms	0.400249	0.212683
host_listings_count	0.029562	0.088841
host_total_listings_count	0.028223	0.076931
accommodates	0.571146	0.274585
bedrooms	0.538399	0.300008
beds	1.000000	0.214430
price	0.214430	1.000000
minimum_nights	0.008947	0.042489
maximum_nights	-0.016739	0.035625
minimum_minimum_nights	0.010016	-0.018251
maximum_minimum_nights	0.034793	0.075755
minimum_maximum_nights	0.032093	0.052860
maximum_maximum_nights	0.041446	0.069897
minimum_nights_avg_ntm	0.023776	0.052992
maximum_nights_avg_ntm	0.036576	0.062614
availability_30	0.018991	-0.046410
availability_60	-0.003992	-0.057961
availability_90	-0.006866	-0.076208
availability_365	0.030859	-0.053109
number_of_reviews	0.035381	-0.006210
number_of_reviews_ltm	-0.003892	-0.083327
number_of_reviews_l30d	0.005787	-0.073646
availability_eoy	0.019113	-0.058097
number_of_reviews_ly	0.001081	-0.071803
estimated_occupancy_l365d	-0.024534	-0.084939
estimated_revenue_l365d	0.005668	-0.007110
calculated_host_listings_count	0.029076	0.089028
calculated_host_listings_count_entire_homes	0.005362	0.048735
calculated_host_listings_count_private_rooms	0.034465	0.042441
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	-0.015761	-0.102204

	minimum_nights	maximum_nights \
id	-0.223795	0.253969
scrape_id	NaN	NaN
host_id	-0.165431	0.072623
latitude	0.017404	0.023275
longitude	-0.014675	0.003027
host_response_rate	0.021685	-0.052806
host_acceptance_rate	-0.033820	-0.053576
review_scores_rating	0.102217	-0.138982
review_scores_accuracy	0.099900	-0.137912
review_scores_cleanliness	0.097868	-0.138086
review_scores_checkin	0.103115	-0.136638
review_scores_communication	0.102146	-0.138357
review_scores_location	0.097437	-0.127653
review_scores_value	0.104335	-0.140350
bathrooms	0.031336	0.014516
host_listings_count	-0.065018	0.102407
host_total_listings_count	-0.020100	0.107936
accommodates	-0.051577	0.025292
bedrooms	0.016587	0.015621
beds	0.008947	-0.016739
price	0.042489	0.035625
minimum_nights	1.000000	-0.138923
maximum_nights	-0.138923	1.000000
minimum_minimum_nights	0.475002	-0.143059
maximum_minimum_nights	0.524157	-0.073096
minimum_maximum_nights	0.055606	-0.024012
maximum_maximum_nights	0.006949	-0.037259
minimum_nights_avg_ntm	0.774326	-0.111291
maximum_nights_avg_ntm	0.042693	-0.028736
availability_30	-0.060671	0.049063
availability_60	-0.090966	0.072324
availability_90	-0.107603	0.078581
availability_365	-0.081150	0.078797
number_of_reviews	0.120802	-0.126348
number_of_reviews_ltm	0.118691	-0.089824
number_of_reviews_l30d	0.007075	-0.017642
availability_eoy	-0.092998	0.085591
number_of_reviews_ly	0.129210	-0.096989
estimated_occupancy_l365d	0.124881	-0.079880
estimated_revenue_l365d	0.114677	-0.067134
calculated_host_listings_count	-0.071615	0.120336
calculated_host_listings_count_entire_homes	-0.024477	0.070957
calculated_host_listings_count_private_rooms	-0.067917	0.024621
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	0.051992	-0.072344

minimum\_minimum\_nights \



id	-0.044181
scrape_id	NaN
host_id	-0.031683
latitude	0.005436
longitude	-0.009538
host_response_rate	0.078676
host_acceptance_rate	0.055028
review_scores_rating	0.080113
review_scores_accuracy	0.078105
review_scores_cleanliness	0.078293
review_scores_checkin	0.077850
review_scores_communication	0.077340
review_scores_location	0.069104
review_scores_value	0.079090
bathrooms	0.017056
host_listings_count	-0.085217
host_total_listings_count	-0.070997
accommodates	-0.011468
bedrooms	0.010515
beds	0.010016
price	-0.018251
minimum_nights	0.475002
maximum_nights	-0.143059
minimum_minimum_nights	1.000000
maximum_minimum_nights	0.343487
minimum_maximum_nights	-0.019240
maximum_maximum_nights	-0.056979
minimum_nights_avg_ntm	0.449595
maximum_nights_avg_ntm	-0.032715
availability_30	0.040263
availability_60	0.016965
availability_90	0.008525
availability_365	0.016556
number_of_reviews	0.064596
number_of_reviews_ltm	0.090044
number_of_reviews_l30d	0.014755
availability_eoy	0.012994
number_of_reviews_ly	0.095405
estimated_occupancy_l365d	0.016481
estimated_revenue_l365d	0.029681
calculated_host_listings_count	-0.083251
calculated_host_listings_count_entire_homes	-0.050777
calculated_host_listings_count_private_rooms	-0.070031
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.028001

	maximum_minimum_nights \
id	-0.154597

scrape_id	NaN
host_id	-0.164688
latitude	0.049313
longitude	-0.010633
host_response_rate	0.031116
host_acceptance_rate	0.059129
review_scores_rating	0.096996
review_scores_accuracy	0.096985
review_scores_cleanliness	0.095197
review_scores_checkin	0.098614
review_scores_communication	0.097836
review_scores_location	0.103186
review_scores_value	0.096454
bathrooms	0.059939
host_listings_count	0.013858
host_total_listings_count	0.028247
accommodates	0.009573
bedrooms	0.039548
beds	0.034793
price	0.075755
minimum_nights	0.524157
maximum_nights	-0.073096
minimum_minimum_nights	0.343487
maximum_minimum_nights	1.000000
minimum_maximum_nights	0.013657
maximum_maximum_nights	0.047600
minimum_nights_avg_ntm	0.680018
maximum_nights_avg_ntm	0.027719
availability_30	-0.074769
availability_60	-0.063743
availability_90	-0.065084
availability_365	-0.024032
number_of_reviews	0.100237
number_of_reviews_ltm	0.108542
number_of_reviews_l30d	0.038767
availability_eoy	-0.024788
number_of_reviews_ly	0.114209
estimated_occupancy_l365d	0.088943
estimated_revenue_l365d	0.094054
calculated_host_listings_count	0.003455
calculated_host_listings_count_entire_homes	0.003501
calculated_host_listings_count_private_rooms	-0.039809
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.062067

	minimum_maximum_nights \
id	-0.333968
scrape_id	NaN

host_id	-0.197685
latitude	0.037109
longitude	0.005975
host_response_rate	-0.011195
host_acceptance_rate	0.039834
review_scores_rating	0.136634
review_scores_accuracy	0.137217
review_scores_cleanliness	0.135945
review_scores_checkin	0.141406
review_scores_communication	0.140923
review_scores_location	0.143959
review_scores_value	0.140008
bathrooms	0.013809
host_listings_count	0.059114
host_total_listings_count	0.051975
accommodates	0.011206
bedrooms	0.000585
beds	0.032093
price	0.052860
minimum_nights	0.055606
maximum_nights	-0.024012
minimum_minimum_nights	-0.019240
maximum_minimum_nights	0.013657
minimum_maximum_nights	1.000000
maximum_maximum_nights	0.899365
minimum_nights_avg_ntm	0.024820
maximum_nights_avg_ntm	0.969083
availability_30	-0.104920
availability_60	-0.110099
availability_90	-0.112644
availability_365	-0.045749
number_of_reviews	0.185295
number_of_reviews_ltm	0.139891
number_of_reviews_l30d	0.032996
availability_eoy	-0.069740
number_of_reviews_ly	0.147926
estimated_occupancy_l365d	0.185224
estimated_revenue_l365d	0.157839
calculated_host_listings_count	0.047931
calculated_host_listings_count_entire_homes	0.083812
calculated_host_listings_count_private_rooms	-0.033203
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.125562

	maximum_maximum_nights \
id	-0.321722
scrape_id	NaN
host_id	-0.215396

latitude	0.044539
longitude	0.006194
host_response_rate	0.002165
host_acceptance_rate	0.069601
review_scores_rating	0.138917
review_scores_accuracy	0.139943
review_scores_cleanliness	0.139484
review_scores_checkin	0.143189
review_scores_communication	0.143638
review_scores_location	0.149465
review_scores_value	0.141252
bathrooms	0.026384
host_listings_count	0.094125
host_total_listings_count	0.069844
accommodates	0.026529
bedrooms	0.009058
beds	0.041446
price	0.069897
minimum_nights	0.006949
maximum_nights	-0.037259
minimum_minimum_nights	-0.056979
maximum_minimum_nights	0.047600
minimum_maximum_nights	0.899365
maximum_maximum_nights	1.000000
minimum_nights_avg_ntm	0.022299
maximum_nights_avg_ntm	0.957803
availability_30	-0.107439
availability_60	-0.102534
availability_90	-0.102410
availability_365	-0.035461
number_of_reviews	0.177352
number_of_reviews_ltm	0.128477
number_of_reviews_l30d	0.035435
availability_eoy	-0.051992
number_of_reviews_ly	0.137238
estimated_occupancy_l365d	0.169188
estimated_revenue_l365d	0.151265
calculated_host_listings_count	0.077781
calculated_host_listings_count_entire_homes	0.080891
calculated_host_listings_count_private_rooms	-0.016910
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.117690

	minimum_nights_avg_ntm \
id	-0.191816
scrape_id	NaN
host_id	-0.174273
latitude	0.030736

longitude	-0.008570
host_response_rate	0.026767
host_acceptance_rate	0.012786
review_scores_rating	0.097977
review_scores_accuracy	0.097195
review_scores_cleanliness	0.094802
review_scores_checkin	0.099508
review_scores_communication	0.097981
review_scores_location	0.099050
review_scores_value	0.098527
bathrooms	0.049491
host_listings_count	-0.013033
host_total_listings_count	0.005064
accommodates	-0.018014
bedrooms	0.028718
beds	0.023776
price	0.052992
minimum_nights	0.774326
maximum_nights	-0.111291
minimum_minimum_nights	0.449595
maximum_minimum_nights	0.680018
minimum_maximum_nights	0.024820
maximum_maximum_nights	0.022299
minimum_nights_avg_ntm	1.000000
maximum_nights_avg_ntm	0.024799
availability_30	-0.068107
availability_60	-0.070715
availability_90	-0.077259
availability_365	-0.031015
number_of_reviews	0.104141
number_of_reviews_ltm	0.107000
number_of_reviews_l30d	0.024582
availability_eoy	-0.040318
number_of_reviews_ly	0.116533
estimated_occupancy_l365d	0.093335
estimated_revenue_l365d	0.098822
calculated_host_listings_count	-0.035704
calculated_host_listings_count_entire_homes	-0.014579
calculated_host_listings_count_private_rooms	-0.044995
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.042066

	maximum_nights_avg_ntm \
id	-0.338408
scrape_id	NaN
host_id	-0.210699
latitude	0.041402
longitude	0.007372

host_response_rate	-0.005412
host_acceptance_rate	0.053807
review_scores_rating	0.142646
review_scores_accuracy	0.143549
review_scores_cleanliness	0.142589
review_scores_checkin	0.147332
review_scores_communication	0.147184
review_scores_location	0.151906
review_scores_value	0.145836
bathrooms	0.018847
host_listings_count	0.078382
host_total_listings_count	0.064077
accommodates	0.018513
bedrooms	0.005562
beds	0.036576
price	0.062614
minimum_nights	0.042693
maximum_nights	-0.028736
minimum_minimum_nights	-0.032715
maximum_minimum_nights	0.027719
minimum_maximum_nights	0.969083
maximum_maximum_nights	0.957803
minimum_nights_avg_ntm	0.024799
maximum_nights_avg_ntm	1.000000
availability_30	-0.111260
availability_60	-0.112634
availability_90	-0.114509
availability_365	-0.048311
number_of_reviews	0.187827
number_of_reviews_ltm	0.141697
number_of_reviews_l30d	0.035954
availability_eoy	-0.068715
number_of_reviews_ly	0.149812
estimated_occupancy_l365d	0.187376
estimated_revenue_l365d	0.162175
calculated_host_listings_count	0.066586
calculated_host_listings_count_entire_homes	0.083667
calculated_host_listings_count_private_rooms	-0.024839
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.128840

	availability_30 \
id	0.165352
scrape_id	NaN
host_id	0.127964
latitude	-0.057859
longitude	-0.017738
host_response_rate	-0.051768

host_acceptance_rate	-0.115113
review_scores_rating	-0.139394
review_scores_accuracy	-0.140315
review_scores_cleanliness	-0.136739
review_scores_checkin	-0.139058
review_scores_communication	-0.139909
review_scores_location	-0.150808
review_scores_value	-0.143196
bathrooms	0.012487
host_listings_count	-0.051516
host_total_listings_count	-0.042402
accommodates	0.025269
bedrooms	0.008798
beds	0.018991
price	-0.046410
minimum_nights	-0.060671
maximum_nights	0.049063
minimum_minimum_nights	0.040263
maximum_minimum_nights	-0.074769
minimum_maximum_nights	-0.104920
maximum_maximum_nights	-0.107439
minimum_nights_avg_ntm	-0.068107
maximum_nights_avg_ntm	-0.111260
availability_30	1.000000
availability_60	0.925399
availability_90	0.866685
availability_365	0.564324
number_of_reviews	-0.104260
number_of_reviews_ltm	-0.120430
number_of_reviews_l30d	-0.049863
availability_eoy	0.617201
number_of_reviews_ly	-0.112574
estimated_occupancy_l365d	-0.165071
estimated_revenue_l365d	-0.137128
calculated_host_listings_count	-0.040897
calculated_host_listings_count_entire_homes	-0.037589
calculated_host_listings_count_private_rooms	-0.008020
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.146496

	availability_60 \
id	0.178684
scrape_id	NaN
host_id	0.120219
latitude	-0.059093
longitude	-0.026699
host_response_rate	-0.049386
host_acceptance_rate	-0.104289

review_scores_rating	-0.139776
review_scores_accuracy	-0.140065
review_scores_cleanliness	-0.136618
review_scores_checkin	-0.138841
review_scores_communication	-0.139453
review_scores_location	-0.148752
review_scores_value	-0.144997
bathrooms	0.008937
host_listings_count	-0.017414
host_total_listings_count	-0.012874
accommodates	0.011422
bedrooms	-0.010313
beds	-0.003992
price	-0.057961
minimum_nights	-0.090966
maximum_nights	0.072324
minimum_minimum_nights	0.016965
maximum_minimum_nights	-0.063743
minimum_maximum_nights	-0.110099
maximum_maximum_nights	-0.102534
minimum_nights_avg_ntm	-0.070715
maximum_nights_avg_ntm	-0.112634
availability_30	0.925399
availability_60	1.000000
availability_90	0.972255
availability_365	0.634039
number_of_reviews	-0.102232
number_of_reviews_ltm	-0.115997
number_of_reviews_l30d	-0.036873
availability_eoy	0.699512
number_of_reviews_ly	-0.109072
estimated_occupancy_l365d	-0.159102
estimated_revenue_l365d	-0.136370
calculated_host_listings_count	-0.007541
calculated_host_listings_count_entire_homes	-0.034236
calculated_host_listings_count_private_rooms	0.006119
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.133917

	availability_90 \
id	0.193230
scrape_id	NaN
host_id	0.124384
latitude	-0.062035
longitude	-0.026762
host_response_rate	-0.041468
host_acceptance_rate	-0.088599
review_scores_rating	-0.129344



review_scores_accuracy	-0.129265
review_scores_cleanliness	-0.126165
review_scores_checkin	-0.128300
review_scores_communication	-0.128815
review_scores_location	-0.137868
review_scores_value	-0.134597
bathrooms	-0.001556
host_listings_count	-0.007524
host_total_listings_count	-0.006363
accommodates	0.014489
bedrooms	-0.015145
beds	-0.006866
price	-0.076208
minimum_nights	-0.107603
maximum_nights	0.078581
minimum_minimum_nights	0.008525
maximum_minimum_nights	-0.065084
minimum_maximum_nights	-0.112644
maximum_maximum_nights	-0.102410
minimum_nights_avg_ntm	-0.077259
maximum_nights_avg_ntm	-0.114509
availability_30	0.866685
availability_60	0.972255
availability_90	1.000000
availability_365	0.675983
number_of_reviews	-0.100760
number_of_reviews_ltm	-0.104292
number_of_reviews_l30d	-0.025804
availability_eoy	0.747794
number_of_reviews_ly	-0.099020
estimated_occupancy_l365d	-0.148800
estimated_revenue_l365d	-0.129082
calculated_host_listings_count	0.000080
calculated_host_listings_count_entire_homes	-0.032368
calculated_host_listings_count_private_rooms	0.009187
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.115534

	availability_365 \
id	0.107908
scrape_id	NaN
host_id	0.076219
latitude	-0.016721
longitude	-0.008550
host_response_rate	-0.018607
host_acceptance_rate	-0.034992
review_scores_rating	-0.072311
review_scores_accuracy	-0.073370

review_scores_cleanliness	-0.070206
review_scores_checkin	-0.071525
review_scores_communication	-0.072844
review_scores_location	-0.075612
review_scores_value	-0.073673
bathrooms	0.037076
host_listings_count	0.022493
host_total_listings_count	0.010601
accommodates	0.020650
bedrooms	0.000927
beds	0.030859
price	-0.053109
minimum_nights	-0.081150
maximum_nights	0.078797
minimum_minimum_nights	0.016556
maximum_minimum_nights	-0.024032
minimum_maximum_nights	-0.045749
maximum_maximum_nights	-0.035461
minimum_nights_avg_ntm	-0.031015
maximum_nights_avg_ntm	-0.048311
availability_30	0.564324
availability_60	0.634039
availability_90	0.675983
availability_365	1.000000
number_of_reviews	-0.052827
number_of_reviews_ltm	-0.037848
number_of_reviews_l30d	0.005196
availability_eoy	0.975050
number_of_reviews_ly	-0.040618
estimated_occupancy_l365d	-0.061744
estimated_revenue_l365d	-0.053761
calculated_host_listings_count	0.030659
calculated_host_listings_count_entire_homes	0.016396
calculated_host_listings_count_private_rooms	-0.008604
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.040587

	number_of_reviews \
id	-0.381507
scrape_id	NaN
host_id	-0.186572
latitude	0.036009
longitude	0.011438
host_response_rate	0.079804
host_acceptance_rate	0.125566
review_scores_rating	0.312363
review_scores_accuracy	0.314130
review_scores_cleanliness	0.310022

review_scores_checkin	0.315378
review_scores_communication	0.316792
review_scores_location	0.316612
review_scores_value	0.314464
bathrooms	0.014609
host_listings_count	0.039487
host_total_listings_count	0.042447
accommodates	-0.004440
bedrooms	-0.001225
beds	0.035381
price	-0.006210
minimum_nights	0.120802
maximum_nights	-0.126348
minimum_minimum_nights	0.064596
maximum_minimum_nights	0.100237
minimum_maximum_nights	0.185295
maximum_maximum_nights	0.177352
minimum_nights_avg_ntm	0.104141
maximum_nights_avg_ntm	0.187827
availability_30	-0.104260
availability_60	-0.102232
availability_90	-0.100760
availability_365	-0.052827
number_of_reviews	1.000000
number_of_reviews_ltm	0.444421
number_of_reviews_l30d	0.131845
availability_eoy	-0.059362
number_of_reviews_ly	0.462772
estimated_occupancy_l365d	0.470330
estimated_revenue_l365d	0.398561
calculated_host_listings_count	0.027125
calculated_host_listings_count_entire_homes	0.041027
calculated_host_listings_count_private_rooms	-0.030007
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.389649

	number_of_reviews_ltm \
id	-0.195249
scrape_id	NaN
host_id	-0.109591
latitude	0.042400
longitude	0.036330
host_response_rate	0.127598
host_acceptance_rate	0.209193
review_scores_rating	0.357230
review_scores_accuracy	0.357015
review_scores_cleanliness	0.353552
review_scores_checkin	0.354866

review_scores_communication	0.358154
review_scores_location	0.356070
review_scores_value	0.358247
bathrooms	-0.008666
host_listings_count	0.034210
host_total_listings_count	0.036502
accommodates	-0.030880
bedrooms	-0.020305
beds	-0.003892
price	-0.083327
minimum_nights	0.118691
maximum_nights	-0.089824
minimum_minimum_nights	0.090044
maximum_minimum_nights	0.108542
minimum_maximum_nights	0.139891
maximum_maximum_nights	0.128477
minimum_nights_avg_ntm	0.107000
maximum_nights_avg_ntm	0.141697
availability_30	-0.120430
availability_60	-0.115997
availability_90	-0.104292
availability_365	-0.037848
number_of_reviews	0.444421
number_of_reviews_ltm	1.000000
number_of_reviews_l30d	0.295812
availability_eoy	-0.040719
number_of_reviews_ly	0.920581
estimated_occupancy_l365d	0.820108
estimated_revenue_l365d	0.626061
calculated_host_listings_count	0.019825
calculated_host_listings_count_entire_homes	0.026845
calculated_host_listings_count_private_rooms	-0.052266
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.743015

	number_of_reviews_l30d \
id	0.004174
scrape_id	NaN
host_id	-0.004463
latitude	0.019957
longitude	0.014685
host_response_rate	0.082316
host_acceptance_rate	0.120681
review_scores_rating	0.207085
review_scores_accuracy	0.207645
review_scores_cleanliness	0.205929
review_scores_checkin	0.205202
review_scores_communication	0.205972

review_scores_location	0.211847
review_scores_value	0.209242
bathrooms	0.009199
host_listings_count	0.016454
host_total_listings_count	0.012830
accommodates	0.006498
bedrooms	-0.002133
beds	0.005787
price	-0.073646
minimum_nights	0.007075
maximum_nights	-0.017642
minimum_minimum_nights	0.014755
maximum_minimum_nights	0.038767
minimum_maximum_nights	0.032996
maximum_maximum_nights	0.035435
minimum_nights_avg_ntm	0.024582
maximum_nights_avg_ntm	0.035954
availability_30	-0.049863
availability_60	-0.036873
availability_90	-0.025804
availability_365	0.005196
number_of_reviews	0.131845
number_of_reviews_ltm	0.295812
number_of_reviews_l30d	1.000000
availability_eoy	0.003886
number_of_reviews_ly	0.261865
estimated_occupancy_l365d	0.254143
estimated_revenue_l365d	0.204454
calculated_host_listings_count	0.016684
calculated_host_listings_count_entire_homes	0.005688
calculated_host_listings_count_private_rooms	-0.024432
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.314272

	availability_eoy \
id	0.136637
scrape_id	NaN
host_id	0.089029
latitude	-0.022017
longitude	-0.010317
host_response_rate	-0.017922
host_acceptance_rate	-0.028665
review_scores_rating	-0.073516
review_scores_accuracy	-0.074337
review_scores_cleanliness	-0.070939
review_scores_checkin	-0.072997
review_scores_communication	-0.073997
review_scores_location	-0.077167

review_scores_value	-0.075712
bathrooms	0.026149
host_listings_count	0.026919
host_total_listings_count	0.011963
accommodates	0.019282
bedrooms	-0.004527
beds	0.019113
price	-0.058097
minimum_nights	-0.092998
maximum_nights	0.085591
minimum_minimum_nights	0.012994
maximum_minimum_nights	-0.024788
minimum_maximum_nights	-0.069740
maximum_maximum_nights	-0.051992
minimum_nights_avg_ntm	-0.040318
maximum_nights_avg_ntm	-0.068715
availability_30	0.617201
availability_60	0.699512
availability_90	0.747794
availability_365	0.975050
number_of_reviews	-0.059362
number_of_reviews_ltm	-0.040719
number_of_reviews_l30d	0.003886
availability_eoy	1.000000
number_of_reviews_ly	-0.042425
estimated_occupancy_l365d	-0.071131
estimated_revenue_l365d	-0.058962
calculated_host_listings_count	0.035150
calculated_host_listings_count_entire_homes	0.009379
calculated_host_listings_count_private_rooms	-0.005899
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.043089
	number_of_reviews_ly \
id	-0.224589
scrape_id	NaN
host_id	-0.125306
latitude	0.041422
longitude	0.033945
host_response_rate	0.119950
host_acceptance_rate	0.199090
review_scores_rating	0.340197
review_scores_accuracy	0.340193
review_scores_cleanliness	0.336546
review_scores_checkin	0.338911
review_scores_communication	0.341842
review_scores_location	0.339265
review_scores_value	0.340764

bathrooms	-0.004359
host_listings_count	0.032299
host_total_listings_count	0.033046
accommodates	-0.028578
bedrooms	-0.018646
beds	0.001081
price	-0.071803
minimum_nights	0.129210
maximum_nights	-0.096989
minimum_minimum_nights	0.095405
maximum_minimum_nights	0.114209
minimum_maximum_nights	0.147926
maximum_maximum_nights	0.137238
minimum_nights_avg_ntm	0.116533
maximum_nights_avg_ntm	0.149812
availability_30	-0.112574
availability_60	-0.109072
availability_90	-0.099020
availability_365	-0.040618
number_of_reviews	0.462772
number_of_reviews_ltm	0.920581
number_of_reviews_l30d	0.261865
availability_eoy	-0.042425
number_of_reviews_ly	1.000000
estimated_occupancy_l365d	0.798371
estimated_revenue_l365d	0.607540
calculated_host_listings_count	0.014249
calculated_host_listings_count_entire_homes	0.028039
calculated_host_listings_count_private_rooms	-0.050663
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.695901

	estimated_occupancy_l365d \
id	-0.246896
scrape_id	NaN
host_id	-0.139652
latitude	0.052887
longitude	0.046105
host_response_rate	0.119532
host_acceptance_rate	0.210670
review_scores_rating	0.399775
review_scores_accuracy	0.399354
review_scores_cleanliness	0.395222
review_scores_checkin	0.398212
review_scores_communication	0.401260
review_scores_location	0.400656
review_scores_value	0.401644
bathrooms	-0.025315

host_listings_count	0.054567
host_total_listings_count	0.057951
accommodates	-0.062551
bedrooms	-0.034826
beds	-0.024534
price	-0.084939
minimum_nights	0.124881
maximum_nights	-0.079880
minimum_minimum_nights	0.016481
maximum_minimum_nights	0.088943
minimum_maximum_nights	0.185224
maximum_maximum_nights	0.169188
minimum_nights_avg_ntm	0.093335
maximum_nights_avg_ntm	0.187376
availability_30	-0.165071
availability_60	-0.159102
availability_90	-0.148800
availability_365	-0.061744
number_of_reviews	0.470330
number_of_reviews_ltm	0.820108
number_of_reviews_l30d	0.254143
availability_eoy	-0.071131
number_of_reviews_ly	0.798371
estimated_occupancy_l365d	1.000000
estimated_revenue_l365d	0.733702
calculated_host_listings_count	0.028475
calculated_host_listings_count_entire_homes	0.046146
calculated_host_listings_count_private_rooms	-0.051682
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.754902

	estimated_revenue_l365d \
id	-0.234694
scrape_id	NaN
host_id	-0.139983
latitude	0.066783
longitude	0.026142
host_response_rate	0.104323
host_acceptance_rate	0.180457
review_scores_rating	0.358252
review_scores_accuracy	0.357802
review_scores_cleanliness	0.354439
review_scores_checkin	0.356846
review_scores_communication	0.359065
review_scores_location	0.366642
review_scores_value	0.359580
bathrooms	-0.000298
host_listings_count	0.062837



host_total_listings_count	0.062695
accommodates	-0.020683
bedrooms	-0.012010
beds	0.005668
price	-0.007110
minimum_nights	0.114677
maximum_nights	-0.067134
minimum_minimum_nights	0.029681
maximum_minimum_nights	0.094054
minimum_maximum_nights	0.157839
maximum_maximum_nights	0.151265
minimum_nights_avg_ntm	0.098822
maximum_nights_avg_ntm	0.162175
availability_30	-0.137128
availability_60	-0.136370
availability_90	-0.129082
availability_365	-0.053761
number_of_reviews	0.398561
number_of_reviews_ltm	0.626061
number_of_reviews_l30d	0.204454
availability_eoy	-0.058962
number_of_reviews_ly	0.607540
estimated_occupancy_l365d	0.733702
estimated_revenue_l365d	1.000000
calculated_host_listings_count	0.047775
calculated_host_listings_count_entire_homes	0.035349
calculated_host_listings_count_private_rooms	-0.033711
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.576566

	calculated_host_listings_count \
id	-0.065046
scrape_id	NaN
host_id	-0.144878
latitude	0.063107
longitude	-0.000071
host_response_rate	0.003599
host_acceptance_rate	0.055675
review_scores_rating	0.007894
review_scores_accuracy	0.009332
review_scores_cleanliness	0.011094
review_scores_checkin	0.014904
review_scores_communication	0.013902
review_scores_location	0.029279
review_scores_value	0.007828
bathrooms	0.091876
host_listings_count	0.735923
host_total_listings_count	0.672481

accommodates	0.039771
bedrooms	0.012945
beds	0.029076
price	0.089028
minimum_nights	-0.071615
maximum_nights	0.120336
minimum_minimum_nights	-0.083251
maximum_minimum_nights	0.003455
minimum_maximum_nights	0.047931
maximum_maximum_nights	0.077781
minimum_nights_avg_ntm	-0.035704
maximum_nights_avg_ntm	0.066586
availability_30	-0.040897
availability_60	-0.007541
availability_90	0.000080
availability_365	0.030659
number_of_reviews	0.027125
number_of_reviews_ltm	0.019825
number_of_reviews_l30d	0.016684
availability_eoy	0.035150
number_of_reviews_ly	0.014249
estimated_occupancy_l365d	0.028475
estimated_revenue_l365d	0.047775
calculated_host_listings_count	1.000000
calculated_host_listings_count_entire_homes	0.359510
calculated_host_listings_count_private_rooms	0.235339
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.031797

calculated_host_listings_count_entire_homes	\
id	
-0.099660	
scrape_id	
NaN	
host_id	
-0.083771	
latitude	
0.041239	
longitude	
-0.011937	
host_response_rate	
-0.043174	
host_acceptance_rate	
0.013311	
review_scores_rating	
0.022326	

review_scores_accuracy	↪0.022143	⌋
review_scores_cleanliness	↪0.023605	⌋
review_scores_checkin	↪0.027115	⌋
review_scores_communication	↪0.025931	⌋
review_scores_location	↪0.035337	⌋
review_scores_value	↪0.023726	⌋
bathrooms	↪0.038436	⌋
host_listings_count	↪0.332611	⌋
host_total_listings_count	↪0.355429	⌋
accommodates	↪0.009892	⌋
bedrooms	↪-0.016314	⌋
beds	↪0.005362	⌋
price	↪0.048735	⌋
minimum_nights	↪-0.024477	⌋
maximum_nights	↪0.070957	⌋
minimum_minimum_nights	↪-0.050777	⌋
maximum_minimum_nights	↪0.003501	⌋
minimum_maximum_nights	↪0.083812	⌋
maximum_maximum_nights	↪0.080891	⌋
minimum_nights_avg_ntm	↪-0.014579	⌋
maximum_nights_avg_ntm	↪0.083667	⌋
availability_30	↪-0.037589	⌋
availability_60	↪-0.034236	⌋

availability_90	-0.032368	
availability_365	0.016396	
number_of_reviews	0.041027	
number_of_reviews_ltm	0.026845	
number_of_reviews_l30d	0.005688	
availability_eoy	0.009379	
number_of_reviews_ly	0.028039	
estimated_occupancy_l365d	0.046146	
estimated_revenue_l365d	0.035349	
calculated_host_listings_count	0.359510	
calculated_host_listings_count_entire_homes	1.000000	
calculated_host_listings_count_private_rooms	0.055477	
calculated_host_listings_count_shared_rooms	NaN	
reviews_per_month	0.032028	
	calculated_host_listings_count_private_rooms \	
id	-0.018594	
scrape_id	NaN	
host_id	-0.060000	
latitude	0.033883	
longitude	0.011862	
host_response_rate	-0.018494	
host_acceptance_rate	-0.018474	

review_scores_rating	↪ -0.039049	⌞
review_scores_accuracy	↪ -0.036028	⌞
review_scores_cleanliness	↪ -0.035280	⌞
review_scores_checkin	↪ -0.033011	⌞
review_scores_communication	↪ -0.034480	⌞
review_scores_location	↪ -0.026073	⌞
review_scores_value	↪ -0.038983	⌞
bathrooms	↪ 0.090739	⌞
host_listings_count	↪ 0.184281	⌞
host_total_listings_count	↪ 0.166371	⌞
accommodates	↪ 0.028861	⌞
bedrooms	↪ 0.041966	⌞
beds	↪ 0.034465	⌞
price	↪ 0.042441	⌞
minimum_nights	↪ -0.067917	⌞
maximum_nights	↪ 0.024621	⌞
minimum_minimum_nights	↪ -0.070031	⌞
maximum_minimum_nights	↪ -0.039809	⌞
minimum_maximum_nights	↪ -0.033203	⌞
maximum_maximum_nights	↪ -0.016910	⌞
minimum_nights_avg_ntm	↪ -0.044995	⌞
maximum_nights_avg_ntm	↪ -0.024839	⌞
availability_30	↪ -0.008020	⌞

availability_60		□
↪ 0.006119		
availability_90		□
↪ 0.009187		
availability_365		□
↪ -0.008604		
number_of_reviews		□
↪ -0.030007		
number_of_reviews_ltm		□
↪ -0.052266		
number_of_reviews_l30d		□
↪ -0.024432		
availability_eoy		□
↪ -0.005899		
number_of_reviews_ly		□
↪ -0.050663		
estimated_occupancy_l365d		□
↪ -0.051682		
estimated_revenue_l365d		□
↪ -0.033711		
calculated_host_listings_count		□
↪ 0.235339		
calculated_host_listings_count_entire_homes		□
↪ 0.055477		
calculated_host_listings_count_private_rooms		□
↪ 1.000000		
calculated_host_listings_count_shared_rooms		□
↪ NaN		
reviews_per_month		□
↪ -0.060558		
↪ calculated_host_listings_count_shared_rooms \		□
id		□
↪ NaN		
scrape_id		□
↪ NaN		
host_id		□
↪ NaN		
latitude		□
↪ NaN		
longitude		□
↪ NaN		
host_response_rate		□
↪ NaN		

host_acceptance_rate		␣
↪ NaN		
review_scores_rating		␣
↪ NaN		
review_scores_accuracy		␣
↪ NaN		
review_scores_cleanliness		␣
↪ NaN		
review_scores_checkin		␣
↪ NaN		
review_scores_communication		␣
↪ NaN		
review_scores_location		␣
↪ NaN		
review_scores_value		␣
↪ NaN		
bathrooms		␣
↪ NaN		
host_listings_count		␣
↪ NaN		
host_total_listings_count		␣
↪ NaN		
accommodates		␣
↪ NaN		
bedrooms		␣
↪ NaN		
beds		␣
↪ NaN		
price		␣
↪ NaN		
minimum_nights		␣
↪ NaN		
maximum_nights		␣
↪ NaN		
minimum_minimum_nights		␣
↪ NaN		
maximum_minimum_nights		␣
↪ NaN		
minimum_maximum_nights		␣
↪ NaN		
maximum_maximum_nights		␣
↪ NaN		
minimum_nights_avg_ntm		␣
↪ NaN		
maximum_nights_avg_ntm		␣
↪ NaN		

availability_30		
↪ NaN		⌋
availability_60		
↪ NaN		⌋
availability_90		
↪ NaN		⌋
availability_365		
↪ NaN		⌋
number_of_reviews		
↪ NaN		⌋
number_of_reviews_ltm		
↪ NaN		⌋
number_of_reviews_l30d		
↪ NaN		⌋
availability_eoy		
↪ NaN		⌋
number_of_reviews_ly		
↪ NaN		⌋
estimated_occupancy_l365d		
↪ NaN		⌋
estimated_revenue_l365d		
↪ NaN		⌋
calculated_host_listings_count		
↪ NaN		⌋
calculated_host_listings_count_entire_homes		
↪ NaN		⌋
calculated_host_listings_count_private_rooms		
↪ NaN		⌋
calculated_host_listings_count_shared_rooms		
↪ NaN		⌋
reviews_per_month		
↪ NaN		⌋

	reviews_per_month
id	-0.086417
scrape_id	NaN
host_id	-0.054435
latitude	0.046887
longitude	0.046807
host_response_rate	0.142804
host_acceptance_rate	0.238096
review_scores_rating	0.438760
review_scores_accuracy	0.438412
review_scores_cleanliness	0.435922
review_scores_checkin	0.434037
review_scores_communication	0.437758



review_scores_location	0.438267
review_scores_value	0.442164
bathrooms	-0.024083
host_listings_count	0.053901
host_total_listings_count	0.047003
accommodates	-0.027691
bedrooms	-0.019551
beds	-0.015761
price	-0.102204
minimum_nights	0.051992
maximum_nights	-0.072344
minimum_minimum_nights	0.028001
maximum_minimum_nights	0.062067
minimum_maximum_nights	0.125562
maximum_maximum_nights	0.117690
minimum_nights_avg_ntm	0.042066
maximum_nights_avg_ntm	0.128840
availability_30	-0.146496
availability_60	-0.133917
availability_90	-0.115534
availability_365	-0.040587
number_of_reviews	0.389649
number_of_reviews_ltm	0.743015
number_of_reviews_l30d	0.314272
availability_eoy	-0.043089
number_of_reviews_ly	0.695901
estimated_occupancy_l365d	0.754902
estimated_revenue_l365d	0.576566
calculated_host_listings_count	0.031797
calculated_host_listings_count_entire_homes	0.032028
calculated_host_listings_count_private_rooms	-0.060558
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	1.000000

=====

Full Correlation Matrix for 'Hotel room':

	id	scrape_id	host_id	\
id	1.000000	NaN	0.644973	
scrape_id	NaN	NaN	NaN	
host_id	0.644973	NaN	1.000000	
latitude	0.073257	NaN	0.012408	
longitude	-0.085312	NaN	-0.200365	
host_response_rate	0.009869	NaN	0.094192	
host_acceptance_rate	-0.008919	NaN	0.141015	
review_scores_rating	-0.247403	NaN	-0.244230	
review_scores_accuracy	-0.250420	NaN	-0.248473	

review_scores_cleanliness	-0.266890	NaN	-0.261718
review_scores_checkin	-0.252247	NaN	-0.252450
review_scores_communication	-0.259322	NaN	-0.251696
review_scores_location	-0.237289	NaN	-0.239693
review_scores_value	-0.259870	NaN	-0.245776
bathrooms	-0.114220	NaN	-0.070845
host_listings_count	-0.052182	NaN	-0.291759
host_total_listings_count	-0.094406	NaN	-0.342246
accommodates	-0.053201	NaN	0.008651
bedrooms	-0.072216	NaN	-0.072672
beds	0.055525	NaN	0.108986
price	0.188685	NaN	0.133379
minimum_nights	-0.096598	NaN	-0.127612
maximum_nights	-0.117756	NaN	-0.071484
minimum_minimum_nights	-0.087921	NaN	-0.079148
maximum_minimum_nights	-0.139455	NaN	-0.146635
minimum_maximum_nights	-0.052649	NaN	-0.014178
maximum_maximum_nights	0.090168	NaN	0.164366
minimum_nights_avg_ntm	-0.122488	NaN	-0.008738
maximum_nights_avg_ntm	0.046568	NaN	0.111034
availability_30	-0.032786	NaN	-0.097766
availability_60	-0.007917	NaN	-0.078939
availability_90	0.011033	NaN	-0.070021
availability_365	-0.041465	NaN	-0.157142
number_of_reviews	-0.214851	NaN	-0.151077
number_of_reviews_ltm	-0.104949	NaN	-0.143904
number_of_reviews_l30d	-0.140335	NaN	-0.154762
availability_eoy	-0.022660	NaN	-0.150082
number_of_reviews_ly	-0.107456	NaN	-0.135200
estimated_occupancy_l365d	-0.114590	NaN	-0.156716
estimated_revenue_l365d	-0.096879	NaN	-0.119423
calculated_host_listings_count	-0.055897	NaN	-0.146768
calculated_host_listings_count_entire_homes	0.101316	NaN	-0.138476
calculated_host_listings_count_private_rooms	-0.039720	NaN	-0.094400
calculated_host_listings_count_shared_rooms	NaN	NaN	NaN
reviews_per_month	-0.143149	NaN	-0.105951

	latitude	longitude	\
id	0.073257	-0.085312	
scrape_id	NaN	NaN	
host_id	0.012408	-0.200365	
latitude	1.000000	-0.139184	
longitude	-0.139184	1.000000	
host_response_rate	-0.013703	0.079331	
host_acceptance_rate	-0.040664	0.050205	
review_scores_rating	-0.086809	0.001422	
review_scores_accuracy	-0.084819	-0.001866	
review_scores_cleanliness	-0.095703	-0.000551	

review_scores_checkin	-0.095749	0.000686
review_scores_communication	-0.093657	0.003879
review_scores_location	-0.083284	-0.002062
review_scores_value	-0.092661	-0.011098
bathrooms	0.095410	-0.128739
host_listings_count	-0.136673	0.072595
host_total_listings_count	-0.093138	0.040583
accommodates	0.031745	-0.048304
bedrooms	0.138546	-0.055359
beds	0.085451	-0.047204
price	0.105391	-0.096699
minimum_nights	0.101491	0.032613
maximum_nights	-0.095757	0.008384
minimum_minimum_nights	-0.041670	0.007981
maximum_minimum_nights	0.128644	0.032996
minimum_maximum_nights	0.071252	0.007430
maximum_maximum_nights	0.075768	-0.029231
minimum_nights_avg_ntm	0.120197	-0.023564
maximum_nights_avg_ntm	0.081779	-0.018586
availability_30	-0.039297	-0.031382
availability_60	-0.055057	-0.002417
availability_90	-0.062380	0.010484
availability_365	-0.050899	0.041641
number_of_reviews	-0.162369	0.053072
number_of_reviews_ltm	-0.016395	0.031358
number_of_reviews_l30d	-0.019805	0.096877
availability_eoy	-0.059726	0.051549
number_of_reviews_ly	-0.020404	0.005188
estimated_occupancy_l365d	-0.016853	-0.026590
estimated_revenue_l365d	0.065439	0.013248
calculated_host_listings_count	-0.176945	0.050875
calculated_host_listings_count_entire_homes	0.056137	-0.113060
calculated_host_listings_count_private_rooms	-0.028498	-0.090789
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	-0.099497	-0.028770
		host_response_rate \
id		0.009869
scrape_id		NaN
host_id		0.094192
latitude		-0.013703
longitude		0.079331
host_response_rate		1.000000
host_acceptance_rate		0.636526
review_scores_rating		0.031356
review_scores_accuracy		0.025034
review_scores_cleanliness		0.028838
review_scores_checkin		0.020851

review_scores_communication	0.029849
review_scores_location	0.032994
review_scores_value	0.023182
bathrooms	0.033250
host_listings_count	0.152775
host_total_listings_count	0.084692
accommodates	-0.032748
bedrooms	-0.030262
beds	-0.089000
price	-0.078961
minimum_nights	-0.210583
maximum_nights	-0.087247
minimum_minimum_nights	-0.095759
maximum_minimum_nights	-0.014709
minimum_maximum_nights	-0.003199
maximum_maximum_nights	0.016794
minimum_nights_avg_ntm	-0.054194
maximum_nights_avg_ntm	0.013461
availability_30	0.031631
availability_60	0.020454
availability_90	0.023383
availability_365	0.031077
number_of_reviews	0.124481
number_of_reviews_ltm	0.117932
number_of_reviews_l30d	0.083463
availability_eoy	0.036020
number_of_reviews_ly	0.115649
estimated_occupancy_l365d	0.107276
estimated_revenue_l365d	0.061017
calculated_host_listings_count	0.128851
calculated_host_listings_count_entire_homes	0.046716
calculated_host_listings_count_private_rooms	0.079406
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.133136

	host_acceptance_rate \
id	-0.008919
scrape_id	NaN
host_id	0.141015
latitude	-0.040664
longitude	0.050205
host_response_rate	0.636526
host_acceptance_rate	1.000000
review_scores_rating	0.082672
review_scores_accuracy	0.074227
review_scores_cleanliness	0.075524
review_scores_checkin	0.067439
review_scores_communication	0.081704

review_scores_location	0.081969
review_scores_value	0.089369
bathrooms	0.018280
host_listings_count	0.008766
host_total_listings_count	-0.042909
accommodates	-0.074401
bedrooms	0.004563
beds	-0.086700
price	-0.088999
minimum_nights	-0.190965
maximum_nights	-0.128833
minimum_minimum_nights	-0.023947
maximum_minimum_nights	0.033214
minimum_maximum_nights	-0.049489
maximum_maximum_nights	-0.085610
minimum_nights_avg_ntm	-0.059940
maximum_nights_avg_ntm	-0.058339
availability_30	0.010367
availability_60	-0.000248
availability_90	-0.025982
availability_365	-0.028899
number_of_reviews	0.184423
number_of_reviews_ltm	0.166455
number_of_reviews_l30d	0.106988
availability_eoy	-0.051050
number_of_reviews_ly	0.161217
estimated_occupancy_l365d	0.176899
estimated_revenue_l365d	0.128587
calculated_host_listings_count	-0.051439
calculated_host_listings_count_entire_homes	-0.010424
calculated_host_listings_count_private_rooms	-0.125060
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.188032

	review_scores_rating \
id	-0.247403
scrape_id	NaN
host_id	-0.244230
latitude	-0.086809
longitude	0.001422
host_response_rate	0.031356
host_acceptance_rate	0.082672
review_scores_rating	1.000000
review_scores_accuracy	0.993605
review_scores_cleanliness	0.990286
review_scores_checkin	0.991190
review_scores_communication	0.992499
review_scores_location	0.982153

review_scores_value	0.990327
bathrooms	0.047874
host_listings_count	0.083832
host_total_listings_count	0.082103
accommodates	-0.090260
bedrooms	0.020378
beds	-0.088716
price	-0.174481
minimum_nights	-0.161196
maximum_nights	0.048700
minimum_minimum_nights	0.067670
maximum_minimum_nights	-0.010429
minimum_maximum_nights	-0.061470
maximum_maximum_nights	-0.094011
minimum_nights_avg_ntm	-0.156777
maximum_nights_avg_ntm	-0.092975
availability_30	0.020924
availability_60	0.032706
availability_90	0.020572
availability_365	0.012770
number_of_reviews	0.331831
number_of_reviews_ltm	0.231928
number_of_reviews_l30d	0.149574
availability_eoy	0.017007
number_of_reviews_ly	0.230438
estimated_occupancy_l365d	0.241714
estimated_revenue_l365d	0.089420
calculated_host_listings_count	0.025885
calculated_host_listings_count_entire_homes	0.063523
calculated_host_listings_count_private_rooms	0.090644
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.290036

	review_scores_accuracy \
id	-0.250420
scrape_id	NaN
host_id	-0.248473
latitude	-0.084819
longitude	-0.001866
host_response_rate	0.025034
host_acceptance_rate	0.074227
review_scores_rating	0.993605
review_scores_accuracy	1.000000
review_scores_cleanliness	0.988044
review_scores_checkin	0.988788
review_scores_communication	0.991381
review_scores_location	0.979719
review_scores_value	0.988503

bathrooms	0.050556
host_listings_count	0.086257
host_total_listings_count	0.086419
accommodates	-0.083950
bedrooms	0.029047
beds	-0.077796
price	-0.173587
minimum_nights	-0.158702
maximum_nights	0.061402
minimum_minimum_nights	0.067092
maximum_minimum_nights	0.002434
minimum_maximum_nights	-0.064673
maximum_maximum_nights	-0.100353
minimum_nights_avg_ntm	-0.150125
maximum_nights_avg_ntm	-0.098580
availability_30	0.023714
availability_60	0.036040
availability_90	0.024169
availability_365	0.018477
number_of_reviews	0.337788
number_of_reviews_ltm	0.234068
number_of_reviews_l30d	0.147585
availability_eoy	0.021729
number_of_reviews_ly	0.232726
estimated_occupancy_l365d	0.242530
estimated_revenue_l365d	0.089376
calculated_host_listings_count	0.032420
calculated_host_listings_count_entire_homes	0.056005
calculated_host_listings_count_private_rooms	0.091479
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.295614

	review_scores_cleanliness \
id	-0.266890
scrape_id	NaN
host_id	-0.261718
latitude	-0.095703
longitude	-0.000551
host_response_rate	0.028838
host_acceptance_rate	0.075524
review_scores_rating	0.990286
review_scores_accuracy	0.988044
review_scores_cleanliness	1.000000
review_scores_checkin	0.990394
review_scores_communication	0.986592
review_scores_location	0.977817
review_scores_value	0.986038
bathrooms	0.049008

host_listings_count	0.087195
host_total_listings_count	0.083172
accommodates	-0.087799
bedrooms	0.020135
beds	-0.087962
price	-0.167583
minimum_nights	-0.165425
maximum_nights	0.064195
minimum_minimum_nights	0.061585
maximum_minimum_nights	0.000892
minimum_maximum_nights	-0.063570
maximum_maximum_nights	-0.097441
minimum_nights_avg_ntm	-0.155008
maximum_nights_avg_ntm	-0.097138
availability_30	0.034596
availability_60	0.047044
availability_90	0.034732
availability_365	0.028276
number_of_reviews	0.337610
number_of_reviews_ltm	0.222687
number_of_reviews_l30d	0.144761
availability_eoy	0.031731
number_of_reviews_ly	0.220769
estimated_occupancy_l365d	0.233479
estimated_revenue_l365d	0.079566
calculated_host_listings_count	0.021240
calculated_host_listings_count_entire_homes	0.067020
calculated_host_listings_count_private_rooms	0.095311
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.287629

	review_scores_checkin \
id	-0.252247
scrape_id	NaN
host_id	-0.252450
latitude	-0.095749
longitude	0.000686
host_response_rate	0.020851
host_acceptance_rate	0.067439
review_scores_rating	0.991190
review_scores_accuracy	0.988788
review_scores_cleanliness	0.990394
review_scores_checkin	1.000000
review_scores_communication	0.992413
review_scores_location	0.981849
review_scores_value	0.985061
bathrooms	0.050778
host_listings_count	0.086692



host_total_listings_count	0.083875
accommodates	-0.084665
bedrooms	0.021775
beds	-0.075380
price	-0.172726
minimum_nights	-0.166970
maximum_nights	0.067614
minimum_minimum_nights	0.062803
maximum_minimum_nights	-0.012449
minimum_maximum_nights	-0.058000
maximum_maximum_nights	-0.081520
minimum_nights_avg_ntm	-0.164444
maximum_nights_avg_ntm	-0.086375
availability_30	0.031149
availability_60	0.043839
availability_90	0.032691
availability_365	0.028867
number_of_reviews	0.334598
number_of_reviews_ltm	0.226435
number_of_reviews_l30d	0.147362
availability_eoy	0.032047
number_of_reviews_ly	0.226248
estimated_occupancy_l365d	0.238832
estimated_revenue_l365d	0.076943
calculated_host_listings_count	0.033363
calculated_host_listings_count_entire_homes	0.069380
calculated_host_listings_count_private_rooms	0.100882
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.289875

	review_scores_communication \
id	-0.259322
scrape_id	NaN
host_id	-0.251696
latitude	-0.093657
longitude	0.003879
host_response_rate	0.029849
host_acceptance_rate	0.081704
review_scores_rating	0.992499
review_scores_accuracy	0.991381
review_scores_cleanliness	0.986592
review_scores_checkin	0.992413
review_scores_communication	1.000000
review_scores_location	0.979674
review_scores_value	0.984534
bathrooms	0.050504
host_listings_count	0.074720
host_total_listings_count	0.071697

accommodates	-0.089925
bedrooms	0.022092
beds	-0.086261
price	-0.175383
minimum_nights	-0.166781
maximum_nights	0.067197
minimum_minimum_nights	0.059186
maximum_minimum_nights	-0.005178
minimum_maximum_nights	-0.063838
maximum_maximum_nights	-0.091054
minimum_nights_avg_ntm	-0.161623
maximum_nights_avg_ntm	-0.095233
availability_30	0.018000
availability_60	0.031869
availability_90	0.020382
availability_365	0.014562
number_of_reviews	0.334836
number_of_reviews_ltm	0.231056
number_of_reviews_l30d	0.151363
availability_eoy	0.018261
number_of_reviews_ly	0.229381
estimated_occupancy_l365d	0.241734
estimated_revenue_l365d	0.083254
calculated_host_listings_count	0.025795
calculated_host_listings_count_entire_homes	0.062444
calculated_host_listings_count_private_rooms	0.092904
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.290100

	review_scores_location \
id	-0.237289
scrape_id	NaN
host_id	-0.239693
latitude	-0.083284
longitude	-0.002062
host_response_rate	0.032994
host_acceptance_rate	0.081969
review_scores_rating	0.982153
review_scores_accuracy	0.979719
review_scores_cleanliness	0.977817
review_scores_checkin	0.981849
review_scores_communication	0.979674
review_scores_location	1.000000
review_scores_value	0.978193
bathrooms	0.038847
host_listings_count	0.083764
host_total_listings_count	0.083652
accommodates	-0.070643

bedrooms	0.020009
beds	-0.086287
price	-0.148050
minimum_nights	-0.158821
maximum_nights	0.055829
minimum_minimum_nights	0.060240
maximum_minimum_nights	0.000489
minimum_maximum_nights	-0.068789
maximum_maximum_nights	-0.107801
minimum_nights_avg_ntm	-0.153653
maximum_nights_avg_ntm	-0.104580
availability_30	0.028977
availability_60	0.043515
availability_90	0.030418
availability_365	0.028833
number_of_reviews	0.325659
number_of_reviews_ltm	0.226050
number_of_reviews_l30d	0.143847
availability_eoy	0.029246
number_of_reviews_ly	0.227047
estimated_occupancy_l365d	0.240834
estimated_revenue_l365d	0.090262
calculated_host_listings_count	0.038718
calculated_host_listings_count_entire_homes	0.072393
calculated_host_listings_count_private_rooms	0.090489
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.278578

	review_scores_value	bathrooms \
id	-0.259870	-0.114220
scrape_id	NaN	NaN
host_id	-0.245776	-0.070845
latitude	-0.092661	0.095410
longitude	-0.011098	-0.128739
host_response_rate	0.023182	0.033250
host_acceptance_rate	0.089369	0.018280
review_scores_rating	0.990327	0.047874
review_scores_accuracy	0.988503	0.050556
review_scores_cleanliness	0.986038	0.049008
review_scores_checkin	0.985061	0.050778
review_scores_communication	0.984534	0.050504
review_scores_location	0.978193	0.038847
review_scores_value	1.000000	0.051375
bathrooms	0.051375	1.000000
host_listings_count	0.079937	0.045880
host_total_listings_count	0.078482	0.116062
accommodates	-0.095192	0.145044
bedrooms	0.017920	0.244694

beds	-0.080335	0.044800
price	-0.174112	0.051249
minimum_nights	-0.150903	-0.009640
maximum_nights	0.064116	0.013702
minimum_minimum_nights	0.069884	0.019307
maximum_minimum_nights	-0.004906	-0.008153
minimum_maximum_nights	-0.057704	-0.042434
maximum_maximum_nights	-0.095649	-0.066653
minimum_nights_avg_ntm	-0.145305	-0.026674
maximum_nights_avg_ntm	-0.092657	-0.059654
availability_30	0.017071	-0.029498
availability_60	0.025695	-0.044032
availability_90	0.011574	-0.046249
availability_365	0.004075	-0.023284
number_of_reviews	0.344613	0.053995
number_of_reviews_ltm	0.240194	-0.008934
number_of_reviews_l30d	0.154253	-0.014616
availability_eoy	0.005342	-0.038196
number_of_reviews_ly	0.238479	-0.005898
estimated_occupancy_l365d	0.248653	0.085229
estimated_revenue_l365d	0.095348	0.092264
calculated_host_listings_count	0.020760	0.051304
calculated_host_listings_count_entire_homes	0.050497	0.077555
calculated_host_listings_count_private_rooms	0.081856	0.137888
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	0.303255	0.038899

	host_listings_count	\
id	-0.052182	
scrape_id	NaN	
host_id	-0.291759	
latitude	-0.136673	
longitude	0.072595	
host_response_rate	0.152775	
host_acceptance_rate	0.008766	
review_scores_rating	0.083832	
review_scores_accuracy	0.086257	
review_scores_cleanliness	0.087195	
review_scores_checkin	0.086692	
review_scores_communication	0.074720	
review_scores_location	0.083764	
review_scores_value	0.079937	
bathrooms	0.045880	
host_listings_count	1.000000	
host_total_listings_count	0.848044	
accommodates	-0.087863	
bedrooms	-0.042218	
beds	-0.049006	

price	-0.082674
minimum_nights	-0.112083
maximum_nights	0.033512
minimum_minimum_nights	-0.041338
maximum_minimum_nights	0.131290
minimum_maximum_nights	0.047406
maximum_maximum_nights	-0.090168
minimum_nights_avg_ntm	0.001592
maximum_nights_avg_ntm	-0.045484
availability_30	0.109317
availability_60	0.093335
availability_90	0.075207
availability_365	0.050017
number_of_reviews	0.067042
number_of_reviews_ltm	0.195638
number_of_reviews_l30d	0.021404
availability_eoy	0.058746
number_of_reviews_ly	0.224462
estimated_occupancy_l365d	0.140616
estimated_revenue_l365d	0.109616
calculated_host_listings_count	0.643111
calculated_host_listings_count_entire_homes	0.156935
calculated_host_listings_count_private_rooms	0.332073
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.103075

	host_total_listings_count \
id	-0.094406
scrape_id	NaN
host_id	-0.342246
latitude	-0.093138
longitude	0.040583
host_response_rate	0.084692
host_acceptance_rate	-0.042909
review_scores_rating	0.082103
review_scores_accuracy	0.086419
review_scores_cleanliness	0.083172
review_scores_checkin	0.083875
review_scores_communication	0.071697
review_scores_location	0.083652
review_scores_value	0.078482
bathrooms	0.116062
host_listings_count	0.848044
host_total_listings_count	1.000000
accommodates	-0.051893
bedrooms	-0.014997
beds	-0.018766
price	-0.114865

minimum_nights	-0.009162
maximum_nights	0.051320
minimum_minimum_nights	-0.056666
maximum_minimum_nights	0.137184
minimum_maximum_nights	0.040418
maximum_maximum_nights	-0.093115
minimum_nights_avg_ntm	0.014805
maximum_nights_avg_ntm	-0.044437
availability_30	0.157453
availability_60	0.136194
availability_90	0.116366
availability_365	0.073711
number_of_reviews	0.054283
number_of_reviews_ltm	0.199997
number_of_reviews_l30d	0.024861
availability_eoy	0.090189
number_of_reviews_ly	0.224739
estimated_occupancy_l365d	0.159732
estimated_revenue_l365d	0.173338
calculated_host_listings_count	0.555760
calculated_host_listings_count_entire_homes	0.125852
calculated_host_listings_count_private_rooms	0.344898
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.106737

	accommodates	bedrooms	\
id	-0.053201	-0.072216	
scrape_id	NaN	NaN	
host_id	0.008651	-0.072672	
latitude	0.031745	0.138546	
longitude	-0.048304	-0.055359	
host_response_rate	-0.032748	-0.030262	
host_acceptance_rate	-0.074401	0.004563	
review_scores_rating	-0.090260	0.020378	
review_scores_accuracy	-0.083950	0.029047	
review_scores_cleanliness	-0.087799	0.020135	
review_scores_checkin	-0.084665	0.021775	
review_scores_communication	-0.089925	0.022092	
review_scores_location	-0.070643	0.020009	
review_scores_value	-0.095192	0.017920	
bathrooms	0.145044	0.244694	
host_listings_count	-0.087863	-0.042218	
host_total_listings_count	-0.051893	-0.014997	
accommodates	1.000000	0.221077	
bedrooms	0.221077	1.000000	
beds	0.461837	0.201523	
price	0.276830	0.071799	
minimum_nights	0.053797	0.057681	

maximum_nights	0.028614	0.019257
minimum_minimum_nights	0.029813	0.093084
maximum_minimum_nights	-0.007044	-0.009484
minimum_maximum_nights	-0.126957	-0.049699
maximum_maximum_nights	-0.120499	-0.046433
minimum_nights_avg_ntm	0.003321	0.026258
maximum_nights_avg_ntm	-0.125964	-0.043307
availability_30	0.007815	-0.042042
availability_60	-0.014409	-0.057458
availability_90	-0.018671	-0.061959
availability_365	-0.042321	-0.074543
number_of_reviews	-0.101060	-0.022568
number_of_reviews_ltm	-0.158571	-0.085317
number_of_reviews_l30d	-0.066195	-0.068357
availability_eoy	-0.034261	-0.084603
number_of_reviews_ly	-0.153649	-0.079614
estimated_occupancy_l365d	-0.144811	-0.072888
estimated_revenue_l365d	-0.084147	-0.066242
calculated_host_listings_count	-0.054334	-0.002709
calculated_host_listings_count_entire_homes	-0.050137	-0.038584
calculated_host_listings_count_private_rooms	-0.066111	0.033003
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	-0.185832	-0.079270

	beds	price \
id	0.055525	0.188685
scrape_id	NaN	NaN
host_id	0.108986	0.133379
latitude	0.085451	0.105391
longitude	-0.047204	-0.096699
host_response_rate	-0.089000	-0.078961
host_acceptance_rate	-0.086700	-0.088999
review_scores_rating	-0.088716	-0.174481
review_scores_accuracy	-0.077796	-0.173587
review_scores_cleanliness	-0.087962	-0.167583
review_scores_checkin	-0.075380	-0.172726
review_scores_communication	-0.086261	-0.175383
review_scores_location	-0.086287	-0.148050
review_scores_value	-0.080335	-0.174112
bathrooms	0.044800	0.051249
host_listings_count	-0.049006	-0.082674
host_total_listings_count	-0.018766	-0.114865
accommodates	0.461837	0.276830
bedrooms	0.201523	0.071799
beds	1.000000	0.207476
price	0.207476	1.000000
minimum_nights	0.005130	0.069918
maximum_nights	0.012769	-0.058044

minimum_minimum_nights	-0.024176	-0.117768
maximum_minimum_nights	-0.017942	-0.001851
minimum_maximum_nights	0.038587	0.026644
maximum_maximum_nights	-0.003014	0.048222
minimum_nights_avg_ntm	0.025910	0.030056
maximum_nights_avg_ntm	0.026706	0.047728
availability_30	0.032199	0.002153
availability_60	-0.013124	0.006334
availability_90	-0.008038	-0.003755
availability_365	-0.033822	-0.002702
number_of_reviews	-0.090219	-0.227467
number_of_reviews_ltm	-0.175502	-0.381873
number_of_reviews_l30d	-0.113711	-0.274908
availability_eoy	-0.040501	-0.017105
number_of_reviews_ly	-0.178239	-0.375980
estimated_occupancy_l365d	-0.132758	-0.355027
estimated_revenue_l365d	-0.076502	-0.212353
calculated_host_listings_count	-0.062587	-0.168840
calculated_host_listings_count_entire_homes	-0.107980	0.021940
calculated_host_listings_count_private_rooms	-0.112217	-0.162376
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	-0.144605	-0.358941

	minimum_nights	maximum_nights	\
id	-0.096598	-0.117756	
scrape_id	NaN	NaN	
host_id	-0.127612	-0.071484	
latitude	0.101491	-0.095757	
longitude	0.032613	0.008384	
host_response_rate	-0.210583	-0.087247	
host_acceptance_rate	-0.190965	-0.128833	
review_scores_rating	-0.161196	0.048700	
review_scores_accuracy	-0.158702	0.061402	
review_scores_cleanliness	-0.165425	0.064195	
review_scores_checkin	-0.166970	0.067614	
review_scores_communication	-0.166781	0.067197	
review_scores_location	-0.158821	0.055829	
review_scores_value	-0.150903	0.064116	
bathrooms	-0.009640	0.013702	
host_listings_count	-0.112083	0.033512	
host_total_listings_count	-0.009162	0.051320	
accommodates	0.053797	0.028614	
bedrooms	0.057681	0.019257	
beds	0.005130	0.012769	
price	0.069918	-0.058044	
minimum_nights	1.000000	0.062056	
maximum_nights	0.062056	1.000000	
minimum_minimum_nights	0.303557	0.024726	



maximum_minimum_nights	0.101278	-0.096737
minimum_maximum_nights	0.213653	-0.104025
maximum_maximum_nights	0.158695	-0.094535
minimum_nights_avg_ntm	0.404672	-0.004281
maximum_nights_avg_ntm	0.200565	-0.125420
availability_30	-0.026582	0.035984
availability_60	-0.052945	0.031581
availability_90	-0.072602	0.033816
availability_365	-0.108734	0.024592
number_of_reviews	0.004244	0.024009
number_of_reviews_ltm	-0.113230	0.005758
number_of_reviews_l30d	-0.060389	-0.026225
availability_eoy	-0.104282	0.016022
number_of_reviews_ly	-0.095026	0.002973
estimated_occupancy_l365d	-0.062321	0.027404
estimated_revenue_l365d	0.003607	0.014943
calculated_host_listings_count	-0.072515	0.072573
calculated_host_listings_count_entire_homes	-0.096389	-0.028102
calculated_host_listings_count_private_rooms	-0.016700	0.058447
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	-0.096348	0.078028

	minimum_minimum_nights	\
id	-0.087921	
scrape_id	NaN	
host_id	-0.079148	
latitude	-0.041670	
longitude	0.007981	
host_response_rate	-0.095759	
host_acceptance_rate	-0.023947	
review_scores_rating	0.067670	
review_scores_accuracy	0.067092	
review_scores_cleanliness	0.061585	
review_scores_checkin	0.062803	
review_scores_communication	0.059186	
review_scores_location	0.060240	
review_scores_value	0.069884	
bathrooms	0.019307	
host_listings_count	-0.041338	
host_total_listings_count	-0.056666	
accommodates	0.029813	
bedrooms	0.093084	
beds	-0.024176	
price	-0.117768	
minimum_nights	0.303557	
maximum_nights	0.024726	
minimum_minimum_nights	1.000000	
maximum_minimum_nights	0.098452	

minimum_maximum_nights	0.042241
maximum_maximum_nights	0.041199
minimum_nights_avg_ntm	0.251481
maximum_nights_avg_ntm	0.044053
availability_30	0.003834
availability_60	0.001761
availability_90	0.015678
availability_365	0.053780
number_of_reviews	0.105132
number_of_reviews_ltm	0.013975
number_of_reviews_l30d	0.110617
availability_eoy	0.036942
number_of_reviews_ly	0.018465
estimated_occupancy_l365d	0.083285
estimated_revenue_l365d	-0.024553
calculated_host_listings_count	-0.000679
calculated_host_listings_count_entire_homes	0.025911
calculated_host_listings_count_private_rooms	0.038389
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.080636

	maximum_minimum_nights \
id	-0.139455
scrape_id	NaN
host_id	-0.146635
latitude	0.128644
longitude	0.032996
host_response_rate	-0.014709
host_acceptance_rate	0.033214
review_scores_rating	-0.010429
review_scores_accuracy	0.002434
review_scores_cleanliness	0.000892
review_scores_checkin	-0.012449
review_scores_communication	-0.005178
review_scores_location	0.000489
review_scores_value	-0.004906
bathrooms	-0.008153
host_listings_count	0.131290
host_total_listings_count	0.137184
accommodates	-0.007044
bedrooms	-0.009484
beds	-0.017942
price	-0.001851
minimum_nights	0.101278
maximum_nights	-0.096737
minimum_minimum_nights	0.098452
maximum_minimum_nights	1.000000
minimum_maximum_nights	-0.083995

maximum_maximum_nights	-0.079826
minimum_nights_avg_ntm	0.486701
maximum_nights_avg_ntm	-0.089267
availability_30	0.054425
availability_60	0.080634
availability_90	0.076398
availability_365	0.122812
number_of_reviews	0.063631
number_of_reviews_ltm	-0.024356
number_of_reviews_l30d	0.028485
availability_eoy	0.128780
number_of_reviews_ly	-0.019075
estimated_occupancy_l365d	-0.056203
estimated_revenue_l365d	-0.024309
calculated_host_listings_count	-0.059887
calculated_host_listings_count_entire_homes	0.023180
calculated_host_listings_count_private_rooms	0.040882
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.074727

	minimum_maximum_nights \
id	-0.052649
scrape_id	NaN
host_id	-0.014178
latitude	0.071252
longitude	0.007430
host_response_rate	-0.003199
host_acceptance_rate	-0.049489
review_scores_rating	-0.061470
review_scores_accuracy	-0.064673
review_scores_cleanliness	-0.063570
review_scores_checkin	-0.058000
review_scores_communication	-0.063838
review_scores_location	-0.068789
review_scores_value	-0.057704
bathrooms	-0.042434
host_listings_count	0.047406
host_total_listings_count	0.040418
accommodates	-0.126957
bedrooms	-0.049699
beds	0.038587
price	0.026644
minimum_nights	0.213653
maximum_nights	-0.104025
minimum_minimum_nights	0.042241
maximum_minimum_nights	-0.083995
minimum_maximum_nights	1.000000
maximum_maximum_nights	0.794450

minimum_nights_avg_ntm	0.137065
maximum_nights_avg_ntm	0.915375
availability_30	-0.116277
availability_60	-0.141149
availability_90	-0.155357
availability_365	-0.112778
number_of_reviews	0.046612
number_of_reviews_ltm	0.032231
number_of_reviews_l30d	0.045586
availability_eoy	-0.149296
number_of_reviews_ly	0.037466
estimated_occupancy_l365d	0.043176
estimated_revenue_l365d	0.058856
calculated_host_listings_count	0.029808
calculated_host_listings_count_entire_homes	-0.000141
calculated_host_listings_count_private_rooms	-0.004814
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.023898

	maximum_maximum_nights \
id	0.090168
scrape_id	NaN
host_id	0.164366
latitude	0.075768
longitude	-0.029231
host_response_rate	0.016794
host_acceptance_rate	-0.085610
review_scores_rating	-0.094011
review_scores_accuracy	-0.100353
review_scores_cleanliness	-0.097441
review_scores_checkin	-0.081520
review_scores_communication	-0.091054
review_scores_location	-0.107801
review_scores_value	-0.095649
bathrooms	-0.066653
host_listings_count	-0.090168
host_total_listings_count	-0.093115
accommodates	-0.120499
bedrooms	-0.046433
beds	-0.003014
price	0.048222
minimum_nights	0.158695
maximum_nights	-0.094535
minimum_minimum_nights	0.041199
maximum_minimum_nights	-0.079826
minimum_maximum_nights	0.794450
maximum_maximum_nights	1.000000
minimum_nights_avg_ntm	0.118757

maximum_nights_avg_ntm	0.942823
availability_30	-0.111185
availability_60	-0.126196
availability_90	-0.132033
availability_365	-0.070851
number_of_reviews	-0.030483
number_of_reviews_ltm	-0.028650
number_of_reviews_l30d	-0.021700
availability_eoy	-0.090711
number_of_reviews_ly	-0.017076
estimated_occupancy_l365d	-0.024603
estimated_revenue_l365d	-0.039601
calculated_host_listings_count	-0.093873
calculated_host_listings_count_entire_homes	0.124529
calculated_host_listings_count_private_rooms	0.071123
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.048482

	minimum_nights_avg_ntm \
id	-0.122488
scrape_id	NaN
host_id	-0.008738
latitude	0.120197
longitude	-0.023564
host_response_rate	-0.054194
host_acceptance_rate	-0.059940
review_scores_rating	-0.156777
review_scores_accuracy	-0.150125
review_scores_cleanliness	-0.155008
review_scores_checkin	-0.164444
review_scores_communication	-0.161623
review_scores_location	-0.153653
review_scores_value	-0.145305
bathrooms	-0.026674
host_listings_count	0.001592
host_total_listings_count	0.014805
accommodates	0.003321
bedrooms	0.026258
beds	0.025910
price	0.030056
minimum_nights	0.404672
maximum_nights	-0.004281
minimum_minimum_nights	0.251481
maximum_minimum_nights	0.486701
minimum_maximum_nights	0.137065
maximum_maximum_nights	0.118757
minimum_nights_avg_ntm	1.000000
maximum_nights_avg_ntm	0.140672

availability_30	-0.068703
availability_60	-0.051182
availability_90	-0.042378
availability_365	0.013472
number_of_reviews	-0.032422
number_of_reviews_ltm	-0.117291
number_of_reviews_l30d	-0.042456
availability_eoy	0.015257
number_of_reviews_ly	-0.094369
estimated_occupancy_l365d	-0.123730
estimated_revenue_l365d	-0.052687
calculated_host_listings_count	-0.035751
calculated_host_listings_count_entire_homes	-0.118095
calculated_host_listings_count_private_rooms	0.053841
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.100873

	maximum_nights_avg_ntm \
id	0.046568
scrape_id	NaN
host_id	0.111034
latitude	0.081779
longitude	-0.018586
host_response_rate	0.013461
host_acceptance_rate	-0.058339
review_scores_rating	-0.092975
review_scores_accuracy	-0.098580
review_scores_cleanliness	-0.097138
review_scores_checkin	-0.086375
review_scores_communication	-0.095233
review_scores_location	-0.104580
review_scores_value	-0.092657
bathrooms	-0.059654
host_listings_count	-0.045484
host_total_listings_count	-0.044437
accommodates	-0.125964
bedrooms	-0.043307
beds	0.026706
price	0.047728
minimum_nights	0.200565
maximum_nights	-0.125420
minimum_minimum_nights	0.044053
maximum_minimum_nights	-0.089267
minimum_maximum_nights	0.915375
maximum_maximum_nights	0.942823
minimum_nights_avg_ntm	0.140672
maximum_nights_avg_ntm	1.000000
availability_30	-0.110824

availability_60	-0.131465
availability_90	-0.143421
availability_365	-0.099707
number_of_reviews	0.000865
number_of_reviews_ltm	0.000803
number_of_reviews_l30d	0.008603
availability_eoy	-0.120408
number_of_reviews_ly	0.010728
estimated_occupancy_l365d	0.006178
estimated_revenue_l365d	0.006214
calculated_host_listings_count	-0.061162
calculated_host_listings_count_entire_homes	0.090733
calculated_host_listings_count_private_rooms	0.035924
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.023586

	availability_30 \
id	-0.032786
scrape_id	NaN
host_id	-0.097766
latitude	-0.039297
longitude	-0.031382
host_response_rate	0.031631
host_acceptance_rate	0.010367
review_scores_rating	0.020924
review_scores_accuracy	0.023714
review_scores_cleanliness	0.034596
review_scores_checkin	0.031149
review_scores_communication	0.018000
review_scores_location	0.028977
review_scores_value	0.017071
bathrooms	-0.029498
host_listings_count	0.109317
host_total_listings_count	0.157453
accommodates	0.007815
bedrooms	-0.042042
beds	0.032199
price	0.002153
minimum_nights	-0.026582
maximum_nights	0.035984
minimum_minimum_nights	0.003834
maximum_minimum_nights	0.054425
minimum_maximum_nights	-0.116277
maximum_maximum_nights	-0.111185
minimum_nights_avg_ntm	-0.068703
maximum_nights_avg_ntm	-0.110824
availability_30	1.000000
availability_60	0.952537

availability_90	0.913956
availability_365	0.713536
number_of_reviews	0.041319
number_of_reviews_ltm	0.037873
number_of_reviews_l30d	-0.008847
availability_eoy	0.727724
number_of_reviews_ly	0.035565
estimated_occupancy_l365d	0.087340
estimated_revenue_l365d	-0.094877
calculated_host_listings_count	0.096415
calculated_host_listings_count_entire_homes	0.121761
calculated_host_listings_count_private_rooms	0.095310
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.000186

	availability_60 \
id	-0.007917
scrape_id	NaN
host_id	-0.078939
latitude	-0.055057
longitude	-0.002417
host_response_rate	0.020454
host_acceptance_rate	-0.000248
review_scores_rating	0.032706
review_scores_accuracy	0.036040
review_scores_cleanliness	0.047044
review_scores_checkin	0.043839
review_scores_communication	0.031869
review_scores_location	0.043515
review_scores_value	0.025695
bathrooms	-0.044032
host_listings_count	0.093335
host_total_listings_count	0.136194
accommodates	-0.014409
bedrooms	-0.057458
beds	-0.013124
price	0.006334
minimum_nights	-0.052945
maximum_nights	0.031581
minimum_minimum_nights	0.001761
maximum_minimum_nights	0.080634
minimum_maximum_nights	-0.141149
maximum_maximum_nights	-0.126196
minimum_nights_avg_ntm	-0.051182
maximum_nights_avg_ntm	-0.131465
availability_30	0.952537
availability_60	1.000000
availability_90	0.978790



availability_365	0.778326
number_of_reviews	0.052508
number_of_reviews_ltm	0.047375
number_of_reviews_l30d	-0.016045
availability_eoy	0.797260
number_of_reviews_ly	0.045006
estimated_occupancy_l365d	0.089086
estimated_revenue_l365d	-0.088515
calculated_host_listings_count	0.112274
calculated_host_listings_count_entire_homes	0.119295
calculated_host_listings_count_private_rooms	0.117487
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.005810

	availability_90 \
id	0.011033
scrape_id	NaN
host_id	-0.070021
latitude	-0.062380
longitude	0.010484
host_response_rate	0.023383
host_acceptance_rate	-0.025982
review_scores_rating	0.020572
review_scores_accuracy	0.024169
review_scores_cleanliness	0.034732
review_scores_checkin	0.032691
review_scores_communication	0.020382
review_scores_location	0.030418
review_scores_value	0.011574
bathrooms	-0.046249
host_listings_count	0.075207
host_total_listings_count	0.116366
accommodates	-0.018671
bedrooms	-0.061959
beds	-0.008038
price	-0.003755
minimum_nights	-0.072602
maximum_nights	0.033816
minimum_minimum_nights	0.015678
maximum_minimum_nights	0.076398
minimum_maximum_nights	-0.155357
maximum_maximum_nights	-0.132033
minimum_nights_avg_ntm	-0.042378
maximum_nights_avg_ntm	-0.143421
availability_30	0.913956
availability_60	0.978790
availability_90	1.000000
availability_365	0.821530

number_of_reviews	0.039903
number_of_reviews_ltm	0.019978
number_of_reviews_l30d	-0.009008
availability_eoy	0.850000
number_of_reviews_ly	0.016643
estimated_occupancy_l365d	0.060418
estimated_revenue_l365d	-0.120724
calculated_host_listings_count	0.124850
calculated_host_listings_count_entire_homes	0.122889
calculated_host_listings_count_private_rooms	0.136677
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.007549

	availability_365 \
id	-0.041465
scrape_id	NaN
host_id	-0.157142
latitude	-0.050899
longitude	0.041641
host_response_rate	0.031077
host_acceptance_rate	-0.028899
review_scores_rating	0.012770
review_scores_accuracy	0.018477
review_scores_cleanliness	0.028276
review_scores_checkin	0.028867
review_scores_communication	0.014562
review_scores_location	0.028833
review_scores_value	0.004075
bathrooms	-0.023284
host_listings_count	0.050017
host_total_listings_count	0.073711
accommodates	-0.042321
bedrooms	-0.074543
beds	-0.033822
price	-0.002702
minimum_nights	-0.108734
maximum_nights	0.024592
minimum_minimum_nights	0.053780
maximum_minimum_nights	0.122812
minimum_maximum_nights	-0.112778
maximum_maximum_nights	-0.070851
minimum_nights_avg_ntm	0.013472
maximum_nights_avg_ntm	-0.099707
availability_30	0.713536
availability_60	0.778326
availability_90	0.821530
availability_365	1.000000
number_of_reviews	-0.013351

number_of_reviews_ltm	0.055655
number_of_reviews_l30d	0.067912
availability_eoy	0.979215
number_of_reviews_ly	0.029775
estimated_occupancy_l365d	0.092991
estimated_revenue_l365d	-0.056918
calculated_host_listings_count	0.088014
calculated_host_listings_count_entire_homes	0.189154
calculated_host_listings_count_private_rooms	0.121566
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.061452

	number_of_reviews \
id	-0.214851
scrape_id	NaN
host_id	-0.151077
latitude	-0.162369
longitude	0.053072
host_response_rate	0.124481
host_acceptance_rate	0.184423
review_scores_rating	0.331831
review_scores_accuracy	0.337788
review_scores_cleanliness	0.337610
review_scores_checkin	0.334598
review_scores_communication	0.334836
review_scores_location	0.325659
review_scores_value	0.344613
bathrooms	0.053995
host_listings_count	0.067042
host_total_listings_count	0.054283
accommodates	-0.101060
bedrooms	-0.022568
beds	-0.090219
price	-0.227467
minimum_nights	0.004244
maximum_nights	0.024009
minimum_minimum_nights	0.105132
maximum_minimum_nights	0.063631
minimum_maximum_nights	0.046612
maximum_maximum_nights	-0.030483
minimum_nights_avg_ntm	-0.032422
maximum_nights_avg_ntm	0.000865
availability_30	0.041319
availability_60	0.052508
availability_90	0.039903
availability_365	-0.013351
number_of_reviews	1.000000
number_of_reviews_ltm	0.305198

number_of_reviews_l30d	0.183610
availability_eoy	-0.001915
number_of_reviews_ly	0.306540
estimated_occupancy_l365d	0.284326
estimated_revenue_l365d	0.203384
calculated_host_listings_count	0.066269
calculated_host_listings_count_entire_homes	-0.009750
calculated_host_listings_count_private_rooms	0.119840
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.330990

	number_of_reviews_ltm \
id	-0.104949
scrape_id	NaN
host_id	-0.143904
latitude	-0.016395
longitude	0.031358
host_response_rate	0.117932
host_acceptance_rate	0.166455
review_scores_rating	0.231928
review_scores_accuracy	0.234068
review_scores_cleanliness	0.222687
review_scores_checkin	0.226435
review_scores_communication	0.231056
review_scores_location	0.226050
review_scores_value	0.240194
bathrooms	-0.008934
host_listings_count	0.195638
host_total_listings_count	0.199997
accommodates	-0.158571
bedrooms	-0.085317
beds	-0.175502
price	-0.381873
minimum_nights	-0.113230
maximum_nights	0.005758
minimum_minimum_nights	0.013975
maximum_minimum_nights	-0.024356
minimum_maximum_nights	0.032231
maximum_maximum_nights	-0.028650
minimum_nights_avg_ntm	-0.117291
maximum_nights_avg_ntm	0.000803
availability_30	0.037873
availability_60	0.047375
availability_90	0.019978
availability_365	0.055655
number_of_reviews	0.305198
number_of_reviews_ltm	1.000000
number_of_reviews_l30d	0.354944

availability_eoy	0.043272
number_of_reviews_ly	0.947312
estimated_occupancy_l365d	0.815049
estimated_revenue_l365d	0.709776
calculated_host_listings_count	0.190552
calculated_host_listings_count_entire_homes	0.013547
calculated_host_listings_count_private_rooms	0.042980
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.595076

	number_of_reviews_l30d \
id	-0.140335
scrape_id	NaN
host_id	-0.154762
latitude	-0.019805
longitude	0.096877
host_response_rate	0.083463
host_acceptance_rate	0.106988
review_scores_rating	0.149574
review_scores_accuracy	0.147585
review_scores_cleanliness	0.144761
review_scores_checkin	0.147362
review_scores_communication	0.151363
review_scores_location	0.143847
review_scores_value	0.154253
bathrooms	-0.014616
host_listings_count	0.021404
host_total_listings_count	0.024861
accommodates	-0.066195
bedrooms	-0.068357
beds	-0.113711
price	-0.274908
minimum_nights	-0.060389
maximum_nights	-0.026225
minimum_minimum_nights	0.110617
maximum_minimum_nights	0.028485
minimum_maximum_nights	0.045586
maximum_maximum_nights	-0.021700
minimum_nights_avg_ntm	-0.042456
maximum_nights_avg_ntm	0.008603
availability_30	-0.008847
availability_60	-0.016045
availability_90	-0.009008
availability_365	0.067912
number_of_reviews	0.183610
number_of_reviews_ltm	0.354944
number_of_reviews_l30d	1.000000
availability_eoy	0.055870

number_of_reviews_ly	0.318172
estimated_occupancy_1365d	0.332852
estimated_revenue_1365d	0.314316
calculated_host_listings_count	0.053437
calculated_host_listings_count_entire_homes	-0.006798
calculated_host_listings_count_private_rooms	0.012308
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.300606

	availability_eoy \
id	-0.022660
scrape_id	NaN
host_id	-0.150082
latitude	-0.059726
longitude	0.051549
host_response_rate	0.036020
host_acceptance_rate	-0.051050
review_scores_rating	0.017007
review_scores_accuracy	0.021729
review_scores_cleanliness	0.031731
review_scores_checkin	0.032047
review_scores_communication	0.018261
review_scores_location	0.029246
review_scores_value	0.005342
bathrooms	-0.038196
host_listings_count	0.058746
host_total_listings_count	0.090189
accommodates	-0.034261
bedrooms	-0.084603
beds	-0.040501
price	-0.017105
minimum_nights	-0.104282
maximum_nights	0.016022
minimum_minimum_nights	0.036942
maximum_minimum_nights	0.128780
minimum_maximum_nights	-0.149296
maximum_maximum_nights	-0.090711
minimum_nights_avg_ntm	0.015257
maximum_nights_avg_ntm	-0.120408
availability_30	0.727724
availability_60	0.797260
availability_90	0.850000
availability_365	0.979215
number_of_reviews	-0.001915
number_of_reviews_ltm	0.043272
number_of_reviews_130d	0.055870
availability_eoy	1.000000
number_of_reviews_ly	0.019042

estimated_occupancy_1365d	0.071938
estimated_revenue_1365d	-0.075181
calculated_host_listings_count	0.093178
calculated_host_listings_count_entire_homes	0.203473
calculated_host_listings_count_private_rooms	0.135484
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.043395

	number_of_reviews_ly \
id	-0.107456
scrape_id	NaN
host_id	-0.135200
latitude	-0.020404
longitude	0.005188
host_response_rate	0.115649
host_acceptance_rate	0.161217
review_scores_rating	0.230438
review_scores_accuracy	0.232726
review_scores_cleanliness	0.220769
review_scores_checkin	0.226248
review_scores_communication	0.229381
review_scores_location	0.227047
review_scores_value	0.238479
bathrooms	-0.005898
host_listings_count	0.224462
host_total_listings_count	0.224739
accommodates	-0.153649
bedrooms	-0.079614
beds	-0.178239
price	-0.375980
minimum_nights	-0.095026
maximum_nights	0.002973
minimum_minimum_nights	0.018465
maximum_minimum_nights	-0.019075
minimum_maximum_nights	0.037466
maximum_maximum_nights	-0.017076
minimum_nights_avg_ntm	-0.094369
maximum_nights_avg_ntm	0.010728
availability_30	0.035565
availability_60	0.045006
availability_90	0.016643
availability_365	0.029775
number_of_reviews	0.306540
number_of_reviews_ltm	0.947312
number_of_reviews_130d	0.318172
availability_eoy	0.019042
number_of_reviews_ly	1.000000
estimated_occupancy_1365d	0.809364

estimated_revenue_1365d	0.669405
calculated_host_listings_count	0.202657
calculated_host_listings_count_entire_homes	0.019983
calculated_host_listings_count_private_rooms	0.049475
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.606623

	estimated_occupancy_1365d \
id	-0.114590
scrape_id	NaN
host_id	-0.156716
latitude	-0.016853
longitude	-0.026590
host_response_rate	0.107276
host_acceptance_rate	0.176899
review_scores_rating	0.241714
review_scores_accuracy	0.242530
review_scores_cleanliness	0.233479
review_scores_checkin	0.238832
review_scores_communication	0.241734
review_scores_location	0.240834
review_scores_value	0.248653
bathrooms	0.085229
host_listings_count	0.140616
host_total_listings_count	0.159732
accommodates	-0.144811
bedrooms	-0.072888
beds	-0.132758
price	-0.355027
minimum_nights	-0.062321
maximum_nights	0.027404
minimum_minimum_nights	0.083285
maximum_minimum_nights	-0.056203
minimum_maximum_nights	0.043176
maximum_maximum_nights	-0.024603
minimum_nights_avg_ntm	-0.123730
maximum_nights_avg_ntm	0.006178
availability_30	0.087340
availability_60	0.089086
availability_90	0.060418
availability_365	0.092991
number_of_reviews	0.284326
number_of_reviews_ltm	0.815049
number_of_reviews_130d	0.332852
availability_eoy	0.071938
number_of_reviews_ly	0.809364
estimated_occupancy_1365d	1.000000
estimated_revenue_1365d	0.768374



calculated_host_listings_count	0.121407
calculated_host_listings_count_entire_homes	0.116484
calculated_host_listings_count_private_rooms	0.014796
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.708978

	estimated_revenue_l365d \
id	-0.096879
scrape_id	NaN
host_id	-0.119423
latitude	0.065439
longitude	0.013248
host_response_rate	0.061017
host_acceptance_rate	0.128587
review_scores_rating	0.089420
review_scores_accuracy	0.089376
review_scores_cleanliness	0.079566
review_scores_checkin	0.076943
review_scores_communication	0.083254
review_scores_location	0.090262
review_scores_value	0.095348
bathrooms	0.092264
host_listings_count	0.109616
host_total_listings_count	0.173338
accommodates	-0.084147
bedrooms	-0.066242
beds	-0.076502
price	-0.212353
minimum_nights	0.003607
maximum_nights	0.014943
minimum_minimum_nights	-0.024553
maximum_minimum_nights	-0.024309
minimum_maximum_nights	0.058856
maximum_maximum_nights	-0.039601
minimum_nights_avg_ntm	-0.052687
maximum_nights_avg_ntm	0.006214
availability_30	-0.094877
availability_60	-0.088515
availability_90	-0.120724
availability_365	-0.056918
number_of_reviews	0.203384
number_of_reviews_ltm	0.709776
number_of_reviews_l30d	0.314316
availability_eoy	-0.075181
number_of_reviews_ly	0.669405
estimated_occupancy_l365d	0.768374
estimated_revenue_l365d	1.000000
calculated_host_listings_count	0.108107

calculated_host_listings_count_entire_homes	-0.012232
calculated_host_listings_count_private_rooms	-0.034176
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.556853

	calculated_host_listings_count \
id	-0.055897
scrape_id	NaN
host_id	-0.146768
latitude	-0.176945
longitude	0.050875
host_response_rate	0.128851
host_acceptance_rate	-0.051439
review_scores_rating	0.025885
review_scores_accuracy	0.032420
review_scores_cleanliness	0.021240
review_scores_checkin	0.033363
review_scores_communication	0.025795
review_scores_location	0.038718
review_scores_value	0.020760
bathrooms	0.051304
host_listings_count	0.643111
host_total_listings_count	0.555760
accommodates	-0.054334
bedrooms	-0.002709
beds	-0.062587
price	-0.168840
minimum_nights	-0.072515
maximum_nights	0.072573
minimum_minimum_nights	-0.000679
maximum_minimum_nights	-0.059887
minimum_maximum_nights	0.029808
maximum_maximum_nights	-0.093873
minimum_nights_avg_ntm	-0.035751
maximum_nights_avg_ntm	-0.061162
availability_30	0.096415
availability_60	0.112274
availability_90	0.124850
availability_365	0.088014
number_of_reviews	0.066269
number_of_reviews_ltm	0.190552
number_of_reviews_l30d	0.053437
availability_eoy	0.093178
number_of_reviews_ly	0.202657
estimated_occupancy_l365d	0.121407
estimated_revenue_l365d	0.108107
calculated_host_listings_count	1.000000
calculated_host_listings_count_entire_homes	-0.007490

calculated_host_listings_count_private_rooms	0.414728
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.112504

calculated_host_listings_count_entire_homes	\
id	
0.101316	
scrape_id	
NaN	
host_id	
-0.138476	
latitude	
0.056137	
longitude	
-0.113060	
host_response_rate	
0.046716	
host_acceptance_rate	
-0.010424	
review_scores_rating	
0.063523	
review_scores_accuracy	
0.056005	
review_scores_cleanliness	
0.067020	
review_scores_checkin	
0.069380	
review_scores_communication	
0.062444	
review_scores_location	
0.072393	
review_scores_value	
0.050497	
bathrooms	
0.077555	
host_listings_count	
0.156935	
host_total_listings_count	
0.125852	
accommodates	
-0.050137	
bedrooms	
-0.038584	
beds	
-0.107980	

price	↪0.021940	⌞
minimum_nights	↪-0.096389	⌞
maximum_nights	↪-0.028102	⌞
minimum_minimum_nights	↪0.025911	⌞
maximum_minimum_nights	↪0.023180	⌞
minimum_maximum_nights	↪-0.000141	⌞
maximum_maximum_nights	↪0.124529	⌞
minimum_nights_avg_ntm	↪-0.118095	⌞
maximum_nights_avg_ntm	↪0.090733	⌞
availability_30	↪0.121761	⌞
availability_60	↪0.119295	⌞
availability_90	↪0.122889	⌞
availability_365	↪0.189154	⌞
number_of_reviews	↪-0.009750	⌞
number_of_reviews_ltm	↪0.013547	⌞
number_of_reviews_l30d	↪-0.006798	⌞
availability_eoy	↪0.203473	⌞
number_of_reviews_ly	↪0.019983	⌞
estimated_occupancy_l365d	↪0.116484	⌞
estimated_revenue_l365d	↪-0.012232	⌞
calculated_host_listings_count	↪-0.007490	⌞
calculated_host_listings_count_entire_homes	↪1.000000	⌞
calculated_host_listings_count_private_rooms	↪0.060945	⌞

calculated_host_listings_count_shared_rooms	↳ NaN	↳
reviews_per_month	↳ -0.037093	↳
calculated_host_listings_count_private_rooms	↳	↳
id	↳ -0.039720	↳
scrape_id	↳ NaN	↳
host_id	↳ -0.094400	↳
latitude	↳ -0.028498	↳
longitude	↳ -0.090789	↳
host_response_rate	↳ 0.079406	↳
host_acceptance_rate	↳ -0.125060	↳
review_scores_rating	↳ 0.090644	↳
review_scores_accuracy	↳ 0.091479	↳
review_scores_cleanliness	↳ 0.095311	↳
review_scores_checkin	↳ 0.100882	↳
review_scores_communication	↳ 0.092904	↳
review_scores_location	↳ 0.090489	↳
review_scores_value	↳ 0.081856	↳
bathrooms	↳ 0.137888	↳
host_listings_count	↳ 0.332073	↳
host_total_listings_count	↳ 0.344898	↳
accommodates	↳ -0.066111	↳
bedrooms	↳ 0.033003	↳

beds		␣
↪ -0.112217		
price		␣
↪ -0.162376		
minimum_nights		␣
↪ -0.016700		
maximum_nights		␣
↪ 0.058447		
minimum_minimum_nights		␣
↪ 0.038389		
maximum_minimum_nights		␣
↪ 0.040882		
minimum_maximum_nights		␣
↪ -0.004814		
maximum_maximum_nights		␣
↪ 0.071123		
minimum_nights_avg_ntm		␣
↪ 0.053841		
maximum_nights_avg_ntm		␣
↪ 0.035924		
availability_30		␣
↪ 0.095310		
availability_60		␣
↪ 0.117487		
availability_90		␣
↪ 0.136677		
availability_365		␣
↪ 0.121566		
number_of_reviews		␣
↪ 0.119840		
number_of_reviews_ltm		␣
↪ 0.042980		
number_of_reviews_l30d		␣
↪ 0.012308		
availability_eoy		␣
↪ 0.135484		
number_of_reviews_ly		␣
↪ 0.049475		
estimated_occupancy_l365d		␣
↪ 0.014796		
estimated_revenue_l365d		␣
↪ -0.034176		
calculated_host_listings_count		␣
↪ 0.414728		
calculated_host_listings_count_entire_homes		␣
↪ 0.060945		

calculated_host_listings_count_private_rooms	↪ 1.000000	⌋
calculated_host_listings_count_shared_rooms	↪ NaN	⌋
reviews_per_month	↪ 0.064853	⌋
↪calculated_host_listings_count_shared_rooms \		⌋
id	↪ NaN	⌋
scrape_id	↪ NaN	⌋
host_id	↪ NaN	⌋
latitude	↪ NaN	⌋
longitude	↪ NaN	⌋
host_response_rate	↪ NaN	⌋
host_acceptance_rate	↪ NaN	⌋
review_scores_rating	↪ NaN	⌋
review_scores_accuracy	↪ NaN	⌋
review_scores_cleanliness	↪ NaN	⌋
review_scores_checkin	↪ NaN	⌋
review_scores_communication	↪ NaN	⌋
review_scores_location	↪ NaN	⌋
review_scores_value	↪ NaN	⌋
bathrooms	↪ NaN	⌋
host_listings_count	↪ NaN	⌋
host_total_listings_count	↪ NaN	⌋
accommodates	↪ NaN	⌋

bedrooms		
↪	NaN	␣
beds		
↪	NaN	␣
price		
↪	NaN	␣
minimum_nights		
↪	NaN	␣
maximum_nights		
↪	NaN	␣
minimum_minimum_nights		
↪	NaN	␣
maximum_minimum_nights		
↪	NaN	␣
minimum_maximum_nights		
↪	NaN	␣
maximum_maximum_nights		
↪	NaN	␣
minimum_nights_avg_ntm		
↪	NaN	␣
maximum_nights_avg_ntm		
↪	NaN	␣
availability_30		
↪	NaN	␣
availability_60		
↪	NaN	␣
availability_90		
↪	NaN	␣
availability_365		
↪	NaN	␣
number_of_reviews		
↪	NaN	␣
number_of_reviews_ltm		
↪	NaN	␣
number_of_reviews_l30d		
↪	NaN	␣
availability_eoy		
↪	NaN	␣
number_of_reviews_ly		
↪	NaN	␣
estimated_occupancy_l365d		
↪	NaN	␣
estimated_revenue_l365d		
↪	NaN	␣
calculated_host_listings_count		
↪	NaN	␣



calculated_host_listings_count_entire_homes	↳ NaN	⌞
calculated_host_listings_count_private_rooms	↳ NaN	⌞
calculated_host_listings_count_shared_rooms	↳ NaN	⌞
reviews_per_month	↳ NaN	⌞

	reviews_per_month
id	-0.143149
scrape_id	NaN
host_id	-0.105951
latitude	-0.099497
longitude	-0.028770
host_response_rate	0.133136
host_acceptance_rate	0.188032
review_scores_rating	0.290036
review_scores_accuracy	0.295614
review_scores_cleanliness	0.287629
review_scores_checkin	0.289875
review_scores_communication	0.290100
review_scores_location	0.278578
review_scores_value	0.303255
bathrooms	0.038899
host_listings_count	0.103075
host_total_listings_count	0.106737
accommodates	-0.185832
bedrooms	-0.079270
beds	-0.144605
price	-0.358941
minimum_nights	-0.096348
maximum_nights	0.078028
minimum_minimum_nights	0.080636
maximum_minimum_nights	-0.074727
minimum_maximum_nights	0.023898
maximum_maximum_nights	-0.048482
minimum_nights_avg_ntm	-0.100873
maximum_nights_avg_ntm	-0.023586
availability_30	0.000186
availability_60	0.005810
availability_90	-0.007549
availability_365	0.061452
number_of_reviews	0.330990
number_of_reviews_ltm	0.595076
number_of_reviews_l30d	0.300606
availability_eoy	0.043395

number_of_reviews_ly	0.606623
estimated_occupancy_l365d	0.708978
estimated_revenue_l365d	0.556853
calculated_host_listings_count	0.112504
calculated_host_listings_count_entire_homes	-0.037093
calculated_host_listings_count_private_rooms	0.064853
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	1.000000

=====

Full Correlation Matrix for 'Private room':

	id	scrape_id	host_id	\
id	1.000000	NaN	0.556936	
scrape_id	NaN	NaN	NaN	
host_id	0.556936	NaN	1.000000	
latitude	-0.000225	NaN	0.018812	
longitude	0.022956	NaN	0.011406	
host_response_rate	0.007796	NaN	-0.017355	
host_acceptance_rate	0.015270	NaN	0.026686	
review_scores_rating	-0.277121	NaN	-0.255333	
review_scores_accuracy	-0.279502	NaN	-0.257733	
review_scores_cleanliness	-0.276519	NaN	-0.254510	
review_scores_checkin	-0.281776	NaN	-0.261354	
review_scores_communication	-0.277725	NaN	-0.258378	
review_scores_location	-0.282461	NaN	-0.258154	
review_scores_value	-0.283019	NaN	-0.261970	
bathrooms	-0.003430	NaN	0.006868	
host_listings_count	-0.047910	NaN	-0.017521	
host_total_listings_count	-0.084144	NaN	-0.067489	
accommodates	0.011759	NaN	0.020564	
bedrooms	-0.022263	NaN	-0.007177	
beds	-0.087336	NaN	-0.023721	
price	-0.046147	NaN	0.088603	
minimum_nights	-0.169872	NaN	-0.179294	
maximum_nights	0.505558	NaN	0.303275	
minimum_minimum_nights	-0.037523	NaN	-0.082964	
maximum_minimum_nights	-0.169841	NaN	-0.170088	
minimum_maximum_nights	-0.338564	NaN	-0.225016	
maximum_maximum_nights	-0.341544	NaN	-0.224579	
minimum_nights_avg_ntm	-0.164942	NaN	-0.172908	
maximum_nights_avg_ntm	-0.343615	NaN	-0.226712	
availability_30	0.132886	NaN	0.076385	
availability_60	0.131340	NaN	0.073683	
availability_90	0.140268	NaN	0.077376	
availability_365	0.140052	NaN	0.074998	
number_of_reviews	-0.270160	NaN	-0.207830	

number_of_reviews_ltm	-0.090155	NaN	-0.123987
number_of_reviews_l30d	0.014708	NaN	-0.055282
availability_eoy	0.157164	NaN	0.087651
number_of_reviews_ly	-0.102070	NaN	-0.132668
estimated_occupancy_l365d	-0.092309	NaN	-0.142578
estimated_revenue_l365d	-0.150528	NaN	-0.138824
calculated_host_listings_count	-0.032807	NaN	-0.004487
calculated_host_listings_count_entire_homes	-0.017153	NaN	-0.138845
calculated_host_listings_count_private_rooms	-0.013531	NaN	0.087045
calculated_host_listings_count_shared_rooms	NaN	NaN	NaN
reviews_per_month	-0.047545	NaN	-0.110733

	latitude	longitude	\
id	-0.000225	0.022956	
scrape_id	NaN	NaN	
host_id	0.018812	0.011406	
latitude	1.000000	0.109433	
longitude	0.109433	1.000000	
host_response_rate	-0.018827	-0.012920	
host_acceptance_rate	0.016048	-0.029965	
review_scores_rating	-0.026130	0.009615	
review_scores_accuracy	-0.026905	0.011399	
review_scores_cleanliness	-0.027637	0.008785	
review_scores_checkin	-0.025547	0.011570	
review_scores_communication	-0.027172	0.012291	
review_scores_location	-0.015436	-0.004033	
review_scores_value	-0.027188	0.009424	
bathrooms	0.001967	-0.025479	
host_listings_count	0.080846	-0.044990	
host_total_listings_count	0.077651	-0.050093	
accommodates	0.010379	-0.076159	
bedrooms	-0.039157	-0.028302	
beds	0.013928	-0.021333	
price	0.134860	-0.076531	
minimum_nights	-0.041889	0.018495	
maximum_nights	0.035462	0.018723	
minimum_minimum_nights	-0.046122	-0.016943	
maximum_minimum_nights	0.021439	-0.014526	
minimum_maximum_nights	-0.008903	0.015069	
maximum_maximum_nights	-0.002232	0.012095	
minimum_nights_avg_ntm	-0.025436	0.011119	
maximum_nights_avg_ntm	-0.004018	0.013645	
availability_30	-0.043767	-0.013836	
availability_60	-0.037105	-0.021178	
availability_90	-0.036533	-0.021931	
availability_365	-0.018990	-0.030231	
number_of_reviews	-0.026093	0.016381	
number_of_reviews_ltm	-0.006014	0.019834	

number_of_reviews_l30d	-0.013666	-0.004151
availability_eoy	-0.018175	-0.026647
number_of_reviews_ly	-0.010352	0.020320
estimated_occupancy_l365d	-0.020259	0.029473
estimated_revenue_l365d	0.021106	0.015764
calculated_host_listings_count	0.087587	-0.057041
calculated_host_listings_count_entire_homes	0.057360	-0.062231
calculated_host_listings_count_private_rooms	-0.000582	-0.031395
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	-0.004359	0.034951

	host_response_rate	\
id	0.007796	
scrape_id	NaN	
host_id	-0.017355	
latitude	-0.018827	
longitude	-0.012920	
host_response_rate	1.000000	
host_acceptance_rate	0.343327	
review_scores_rating	0.109411	
review_scores_accuracy	0.106891	
review_scores_cleanliness	0.108630	
review_scores_checkin	0.103058	
review_scores_communication	0.109404	
review_scores_location	0.100625	
review_scores_value	0.105912	
bathrooms	0.003488	
host_listings_count	0.038074	
host_total_listings_count	0.002382	
accommodates	0.004283	
bedrooms	-0.038196	
beds	-0.042996	
price	0.021213	
minimum_nights	-0.033668	
maximum_nights	-0.061591	
minimum_minimum_nights	0.060913	
maximum_minimum_nights	0.001864	
minimum_maximum_nights	-0.012137	
maximum_maximum_nights	-0.003133	
minimum_nights_avg_ntm	-0.010590	
maximum_nights_avg_ntm	-0.006934	
availability_30	-0.066290	
availability_60	-0.056208	
availability_90	-0.051133	
availability_365	-0.040167	
number_of_reviews	0.088569	
number_of_reviews_ltm	0.115840	
number_of_reviews_l30d	0.086287	

availability_eoy	-0.039218
number_of_reviews_ly	0.110523
estimated_occupancy_l365d	0.111609
estimated_revenue_l365d	0.109021
calculated_host_listings_count	0.050834
calculated_host_listings_count_entire_homes	0.010141
calculated_host_listings_count_private_rooms	-0.008125
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.130531

	host_acceptance_rate \
id	0.015270
scrape_id	NaN
host_id	0.026686
latitude	0.016048
longitude	-0.029965
host_response_rate	0.343327
host_acceptance_rate	1.000000
review_scores_rating	0.161565
review_scores_accuracy	0.161019
review_scores_cleanliness	0.162644
review_scores_checkin	0.159212
review_scores_communication	0.161980
review_scores_location	0.163447
review_scores_value	0.161136
bathrooms	-0.057574
host_listings_count	0.077065
host_total_listings_count	0.035625
accommodates	0.034539
bedrooms	-0.038063
beds	-0.034059
price	0.034041
minimum_nights	-0.103722
maximum_nights	-0.046579
minimum_minimum_nights	0.028545
maximum_minimum_nights	0.039802
minimum_maximum_nights	0.026089
maximum_maximum_nights	0.059976
minimum_nights_avg_ntm	-0.056360
maximum_nights_avg_ntm	0.040552
availability_30	-0.178118
availability_60	-0.154048
availability_90	-0.134630
availability_365	-0.078006
number_of_reviews	0.152959
number_of_reviews_ltm	0.212027
number_of_reviews_l30d	0.133791
availability_eoy	-0.072170

number_of_reviews_ly	0.202329
estimated_occupancy_1365d	0.213667
estimated_revenue_1365d	0.205150
calculated_host_listings_count	0.076913
calculated_host_listings_count_entire_homes	0.103540
calculated_host_listings_count_private_rooms	0.013898
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.234099

	review_scores_rating \
id	-0.277121
scrape_id	NaN
host_id	-0.255333
latitude	-0.026130
longitude	0.009615
host_response_rate	0.109411
host_acceptance_rate	0.161565
review_scores_rating	1.000000
review_scores_accuracy	0.994273
review_scores_cleanliness	0.992891
review_scores_checkin	0.992002
review_scores_communication	0.993226
review_scores_location	0.988110
review_scores_value	0.994039
bathrooms	-0.041419
host_listings_count	0.030377
host_total_listings_count	0.015706
accommodates	-0.081299
bedrooms	-0.055940
beds	-0.109740
price	-0.193502
minimum_nights	0.053839
maximum_nights	-0.217048
minimum_minimum_nights	0.124235
maximum_minimum_nights	0.076629
minimum_maximum_nights	0.073104
maximum_maximum_nights	0.085952
minimum_nights_avg_ntm	0.071915
maximum_nights_avg_ntm	0.078450
availability_30	-0.058205
availability_60	-0.050180
availability_90	-0.040948
availability_365	-0.035777
number_of_reviews	0.366881
number_of_reviews_ltm	0.347958
number_of_reviews_l30d	0.212995
availability_eoy	-0.032502
number_of_reviews_ly	0.338477

estimated_occupancy_1365d	0.397578
estimated_revenue_1365d	0.339542
calculated_host_listings_count	0.002786
calculated_host_listings_count_entire_homes	0.035156
calculated_host_listings_count_private_rooms	0.033499
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.429751

	review_scores_accuracy \
id	-0.279502
scrape_id	NaN
host_id	-0.257733
latitude	-0.026905
longitude	0.011399
host_response_rate	0.106891
host_acceptance_rate	0.161019
review_scores_rating	0.994273
review_scores_accuracy	1.000000
review_scores_cleanliness	0.990056
review_scores_checkin	0.990718
review_scores_communication	0.991885
review_scores_location	0.987616
review_scores_value	0.991836
bathrooms	-0.044569
host_listings_count	0.031963
host_total_listings_count	0.016984
accommodates	-0.082603
bedrooms	-0.059057
beds	-0.111359
price	-0.195365
minimum_nights	0.051844
maximum_nights	-0.216898
minimum_minimum_nights	0.122508
maximum_minimum_nights	0.076336
minimum_maximum_nights	0.074136
maximum_maximum_nights	0.087311
minimum_nights_avg_ntm	0.070636
maximum_nights_avg_ntm	0.079409
availability_30	-0.060285
availability_60	-0.051979
availability_90	-0.042530
availability_365	-0.036514
number_of_reviews	0.369551
number_of_reviews_ltm	0.349428
number_of_reviews_130d	0.213974
availability_eoy	-0.033220
number_of_reviews_ly	0.339910
estimated_occupancy_1365d	0.399270

estimated_revenue_1365d	0.340909
calculated_host_listings_count	0.004029
calculated_host_listings_count_entire_homes	0.033757
calculated_host_listings_count_private_rooms	0.035271
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.431979

	review_scores_cleanliness \
id	-0.276519
scrape_id	NaN
host_id	-0.254510
latitude	-0.027637
longitude	0.008785
host_response_rate	0.108630
host_acceptance_rate	0.162644
review_scores_rating	0.992891
review_scores_accuracy	0.990056
review_scores_cleanliness	1.000000
review_scores_checkin	0.989439
review_scores_communication	0.990129
review_scores_location	0.985009
review_scores_value	0.989585
bathrooms	-0.039803
host_listings_count	0.033169
host_total_listings_count	0.016026
accommodates	-0.074639
bedrooms	-0.053348
beds	-0.106264
price	-0.186949
minimum_nights	0.046259
maximum_nights	-0.217189
minimum_minimum_nights	0.119918
maximum_minimum_nights	0.073367
minimum_maximum_nights	0.073610
maximum_maximum_nights	0.086802
minimum_nights_avg_ntm	0.065129
maximum_nights_avg_ntm	0.078409
availability_30	-0.056333
availability_60	-0.048123
availability_90	-0.038852
availability_365	-0.032299
number_of_reviews	0.365129
number_of_reviews_ltm	0.343524
number_of_reviews_130d	0.210074
availability_eoy	-0.028907
number_of_reviews_ly	0.334001
estimated_occupancy_1365d	0.391630
estimated_revenue_1365d	0.336222



calculated_host_listings_count	0.005827
calculated_host_listings_count_entire_homes	0.038797
calculated_host_listings_count_private_rooms	0.035264
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.425529

	review_scores_checkin \
id	-0.281776
scrape_id	NaN
host_id	-0.261354
latitude	-0.025547
longitude	0.011570
host_response_rate	0.103058
host_acceptance_rate	0.159212
review_scores_rating	0.992002
review_scores_accuracy	0.990718
review_scores_cleanliness	0.989439
review_scores_checkin	1.000000
review_scores_communication	0.993837
review_scores_location	0.987328
review_scores_value	0.988183
bathrooms	-0.035642
host_listings_count	0.033356
host_total_listings_count	0.019792
accommodates	-0.074991
bedrooms	-0.053876
beds	-0.104675
price	-0.190495
minimum_nights	0.050897
maximum_nights	-0.215091
minimum_minimum_nights	0.120471
maximum_minimum_nights	0.077271
minimum_maximum_nights	0.077046
maximum_maximum_nights	0.090765
minimum_nights_avg_ntm	0.069585
maximum_nights_avg_ntm	0.082687
availability_30	-0.059140
availability_60	-0.050591
availability_90	-0.041430
availability_365	-0.035425
number_of_reviews	0.366603
number_of_reviews_ltm	0.344808
number_of_reviews_l30d	0.212874
availability_eoy	-0.032439
number_of_reviews_ly	0.335317
estimated_occupancy_l365d	0.395444
estimated_revenue_l365d	0.338275
calculated_host_listings_count	0.005694

calculated_host_listings_count_entire_homes	0.037112
calculated_host_listings_count_private_rooms	0.033429
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.427573

	review_scores_communication \
id	-0.277725
scrape_id	NaN
host_id	-0.258378
latitude	-0.027172
longitude	0.012291
host_response_rate	0.109404
host_acceptance_rate	0.161980
review_scores_rating	0.993226
review_scores_accuracy	0.991885
review_scores_cleanliness	0.990129
review_scores_checkin	0.993837
review_scores_communication	1.000000
review_scores_location	0.986926
review_scores_value	0.989710
bathrooms	-0.037644
host_listings_count	0.032196
host_total_listings_count	0.016525
accommodates	-0.076477
bedrooms	-0.053321
beds	-0.106695
price	-0.195796
minimum_nights	0.051861
maximum_nights	-0.214198
minimum_minimum_nights	0.120950
maximum_minimum_nights	0.075851
minimum_maximum_nights	0.074589
maximum_maximum_nights	0.088242
minimum_nights_avg_ntm	0.069687
maximum_nights_avg_ntm	0.079916
availability_30	-0.059788
availability_60	-0.050783
availability_90	-0.040842
availability_365	-0.035393
number_of_reviews	0.367334
number_of_reviews_ltm	0.347079
number_of_reviews_l30d	0.213681
availability_eoy	-0.032126
number_of_reviews_ly	0.337796
estimated_occupancy_l365d	0.398034
estimated_revenue_l365d	0.338366
calculated_host_listings_count	0.004686
calculated_host_listings_count_entire_homes	0.037912

calculated_host_listings_count_private_rooms	0.035219
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.429564

	review_scores_location \
id	-0.282461
scrape_id	NaN
host_id	-0.258154
latitude	-0.015436
longitude	-0.004033
host_response_rate	0.100625
host_acceptance_rate	0.163447
review_scores_rating	0.988110
review_scores_accuracy	0.987616
review_scores_cleanliness	0.985009
review_scores_checkin	0.987328
review_scores_communication	0.986926
review_scores_location	1.000000
review_scores_value	0.986578
bathrooms	-0.039493
host_listings_count	0.042741
host_total_listings_count	0.027596
accommodates	-0.073131
bedrooms	-0.055069
beds	-0.102976
price	-0.170302
minimum_nights	0.043443
maximum_nights	-0.207239
minimum_minimum_nights	0.111380
maximum_minimum_nights	0.076818
minimum_maximum_nights	0.073016
maximum_maximum_nights	0.087669
minimum_nights_avg_ntm	0.062172
maximum_nights_avg_ntm	0.079302
availability_30	-0.065564
availability_60	-0.055838
availability_90	-0.046610
availability_365	-0.036104
number_of_reviews	0.360515
number_of_reviews_ltm	0.340581
number_of_reviews_l30d	0.212704
availability_eoy	-0.033573
number_of_reviews_ly	0.330881
estimated_occupancy_l365d	0.390084
estimated_revenue_l365d	0.341240
calculated_host_listings_count	0.016222
calculated_host_listings_count_entire_homes	0.050219
calculated_host_listings_count_private_rooms	0.035602

calculated\_host\_listings\_count\_shared\_rooms  
 reviews\_per\_month

NaN  
 0.423328

	review_scores_value	bathrooms	\
id	-0.283019	-0.003430	
scrape_id	NaN	NaN	
host_id	-0.261970	0.006868	
latitude	-0.027188	0.001967	
longitude	0.009424	-0.025479	
host_response_rate	0.105912	0.003488	
host_acceptance_rate	0.161136	-0.057574	
review_scores_rating	0.994039	-0.041419	
review_scores_accuracy	0.991836	-0.044569	
review_scores_cleanliness	0.989585	-0.039803	
review_scores_checkin	0.988183	-0.035642	
review_scores_communication	0.989710	-0.037644	
review_scores_location	0.986578	-0.039493	
review_scores_value	1.000000	-0.039258	
bathrooms	-0.039258	1.000000	
host_listings_count	0.030151	0.020454	
host_total_listings_count	0.015273	0.025737	
accommodates	-0.077670	0.139891	
bedrooms	-0.054670	0.200864	
beds	-0.106912	0.171573	
price	-0.193850	-0.022281	
minimum_nights	0.056150	-0.019040	
maximum_nights	-0.220092	0.015002	
minimum_minimum_nights	0.123799	-0.026876	
maximum_minimum_nights	0.080094	-0.031903	
minimum_maximum_nights	0.074815	0.012320	
maximum_maximum_nights	0.087556	0.002464	
minimum_nights_avg_ntm	0.075206	-0.028941	
maximum_nights_avg_ntm	0.079900	0.008627	
availability_30	-0.063865	0.033095	
availability_60	-0.056054	0.032338	
availability_90	-0.046903	0.031752	
availability_365	-0.038598	0.039030	
number_of_reviews	0.370854	-0.001089	
number_of_reviews_ltm	0.349105	-0.007808	
number_of_reviews_l30d	0.214897	-0.013852	
availability_eoy	-0.036133	0.030413	
number_of_reviews_ly	0.339339	-0.002120	
estimated_occupancy_l365d	0.399276	0.002171	
estimated_revenue_l365d	0.340706	-0.036925	
calculated_host_listings_count	0.003411	0.003496	
calculated_host_listings_count_entire_homes	0.036860	0.005738	
calculated_host_listings_count_private_rooms	0.034196	0.001675	
calculated_host_listings_count_shared_rooms	NaN	NaN	

reviews_per_month	0.432966	-0.018666
	host_listings_count	\
id	-0.047910	
scrape_id	NaN	
host_id	-0.017521	
latitude	0.080846	
longitude	-0.044990	
host_response_rate	0.038074	
host_acceptance_rate	0.077065	
review_scores_rating	0.030377	
review_scores_accuracy	0.031963	
review_scores_cleanliness	0.033169	
review_scores_checkin	0.033356	
review_scores_communication	0.032196	
review_scores_location	0.042741	
review_scores_value	0.030151	
bathrooms	0.020454	
host_listings_count	1.000000	
host_total_listings_count	0.844148	
accommodates	0.099700	
bedrooms	-0.027559	
beds	0.022491	
price	0.132835	
minimum_nights	-0.180194	
maximum_nights	0.093747	
minimum_minimum_nights	-0.111590	
maximum_minimum_nights	-0.003485	
minimum_maximum_nights	0.040961	
maximum_maximum_nights	0.085070	
minimum_nights_avg_ntm	-0.130086	
maximum_nights_avg_ntm	0.063121	
availability_30	-0.041711	
availability_60	-0.012210	
availability_90	0.001431	
availability_365	0.048100	
number_of_reviews	0.030068	
number_of_reviews_ltm	0.010751	
number_of_reviews_l30d	0.014367	
availability_eoy	0.052108	
number_of_reviews_ly	0.002898	
estimated_occupancy_l365d	-0.002151	
estimated_revenue_l365d	0.024381	
calculated_host_listings_count	0.745405	
calculated_host_listings_count_entire_homes	0.288783	
calculated_host_listings_count_private_rooms	-0.031825	
calculated_host_listings_count_shared_rooms	NaN	
reviews_per_month	0.019846	

	host_total_listings_count \
id	-0.084144
scrape_id	NaN
host_id	-0.067489
latitude	0.077651
longitude	-0.050093
host_response_rate	0.002382
host_acceptance_rate	0.035625
review_scores_rating	0.015706
review_scores_accuracy	0.016984
review_scores_cleanliness	0.016026
review_scores_checkin	0.019792
review_scores_communication	0.016525
review_scores_location	0.027596
review_scores_value	0.015273
bathrooms	0.025737
host_listings_count	0.844148
host_total_listings_count	1.000000
accommodates	0.101563
bedrooms	-0.021448
beds	0.042570
price	0.133926
minimum_nights	-0.114324
maximum_nights	0.070797
minimum_minimum_nights	-0.101783
maximum_minimum_nights	0.015597
minimum_maximum_nights	0.066925
maximum_maximum_nights	0.094284
minimum_nights_avg_ntm	-0.079996
maximum_nights_avg_ntm	0.080319
availability_30	-0.018008
availability_60	0.003390
availability_90	0.011996
availability_365	0.046929
number_of_reviews	0.030013
number_of_reviews_ltm	0.000889
number_of_reviews_l30d	-0.003139
availability_eoy	0.048139
number_of_reviews_ly	-0.004158
estimated_occupancy_l365d	0.006226
estimated_revenue_l365d	0.029766
calculated_host_listings_count	0.648516
calculated_host_listings_count_entire_homes	0.256609
calculated_host_listings_count_private_rooms	-0.015797
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.008766

	accommodates	bedrooms	\
id	0.011759	-0.022263	
scrape_id	NaN	NaN	
host_id	0.020564	-0.007177	
latitude	0.010379	-0.039157	
longitude	-0.076159	-0.028302	
host_response_rate	0.004283	-0.038196	
host_acceptance_rate	0.034539	-0.038063	
review_scores_rating	-0.081299	-0.055940	
review_scores_accuracy	-0.082603	-0.059057	
review_scores_cleanliness	-0.074639	-0.053348	
review_scores_checkin	-0.074991	-0.053876	
review_scores_communication	-0.076477	-0.053321	
review_scores_location	-0.073131	-0.055069	
review_scores_value	-0.077670	-0.054670	
bathrooms	0.139891	0.200864	
host_listings_count	0.099700	-0.027559	
host_total_listings_count	0.101563	-0.021448	
accommodates	1.000000	0.284553	
bedrooms	0.284553	1.000000	
beds	0.527943	0.285069	
price	0.242638	0.068031	
minimum_nights	-0.082687	0.036231	
maximum_nights	0.030212	-0.022604	
minimum_minimum_nights	-0.022132	0.010812	
maximum_minimum_nights	-0.013183	0.011021	
minimum_maximum_nights	-0.004617	0.015702	
maximum_maximum_nights	0.002929	-0.003745	
minimum_nights_avg_ntm	-0.059267	0.025683	
maximum_nights_avg_ntm	-0.005185	0.004713	
availability_30	0.045397	-0.002282	
availability_60	0.034199	-0.013663	
availability_90	0.035613	-0.014504	
availability_365	0.036175	-0.024954	
number_of_reviews	-0.054498	-0.048282	
number_of_reviews_ltm	-0.081122	-0.066383	
number_of_reviews_l30d	-0.030807	-0.029032	
availability_eoy	0.033752	-0.028585	
number_of_reviews_ly	-0.079626	-0.062822	
estimated_occupancy_l365d	-0.111702	-0.065955	
estimated_revenue_l365d	-0.044073	-0.042502	
calculated_host_listings_count	0.093664	-0.038001	
calculated_host_listings_count_entire_homes	0.103026	-0.015486	
calculated_host_listings_count_private_rooms	0.034456	-0.022844	
calculated_host_listings_count_shared_rooms	NaN	NaN	
reviews_per_month	-0.085849	-0.069460	
	beds	price	\

id	-0.087336	-0.046147
scrape_id	NaN	NaN
host_id	-0.023721	0.088603
latitude	0.013928	0.134860
longitude	-0.021333	-0.076531
host_response_rate	-0.042996	0.021213
host_acceptance_rate	-0.034059	0.034041
review_scores_rating	-0.109740	-0.193502
review_scores_accuracy	-0.111359	-0.195365
review_scores_cleanliness	-0.106264	-0.186949
review_scores_checkin	-0.104675	-0.190495
review_scores_communication	-0.106695	-0.195796
review_scores_location	-0.102976	-0.170302
review_scores_value	-0.106912	-0.193850
bathrooms	0.171573	-0.022281
host_listings_count	0.022491	0.132835
host_total_listings_count	0.042570	0.133926
accommodates	0.527943	0.242638
bedrooms	0.285069	0.068031
beds	1.000000	0.211293
price	0.211293	1.000000
minimum_nights	-0.007006	-0.104107
maximum_nights	0.005331	0.073757
minimum_minimum_nights	-0.059625	-0.109696
maximum_minimum_nights	0.002703	-0.001758
minimum_maximum_nights	0.057899	0.003224
maximum_maximum_nights	0.055231	0.030301
minimum_nights_avg_ntm	-0.000364	-0.084507
maximum_nights_avg_ntm	0.055896	0.013244
availability_30	-0.053028	0.004931
availability_60	-0.071075	0.003735
availability_90	-0.075809	-0.012926
availability_365	-0.067148	-0.019206
number_of_reviews	-0.086539	-0.191340
number_of_reviews_ltm	-0.140119	-0.290524
number_of_reviews_l30d	-0.078902	-0.152780
availability_eoy	-0.078973	-0.013167
number_of_reviews_ly	-0.139152	-0.282364
estimated_occupancy_l365d	-0.151798	-0.342564
estimated_revenue_l365d	-0.069153	-0.140155
calculated_host_listings_count	0.020615	0.139222
calculated_host_listings_count_entire_homes	0.007244	0.116644
calculated_host_listings_count_private_rooms	-0.009327	0.041555
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	-0.148365	-0.303493
	minimum_nights	maximum_nights \
id	-0.169872	0.505558



scrape_id	NaN	NaN
host_id	-0.179294	0.303275
latitude	-0.041889	0.035462
longitude	0.018495	0.018723
host_response_rate	-0.033668	-0.061591
host_acceptance_rate	-0.103722	-0.046579
review_scores_rating	0.053839	-0.217048
review_scores_accuracy	0.051844	-0.216898
review_scores_cleanliness	0.046259	-0.217189
review_scores_checkin	0.050897	-0.215091
review_scores_communication	0.051861	-0.214198
review_scores_location	0.043443	-0.207239
review_scores_value	0.056150	-0.220092
bathrooms	-0.019040	0.015002
host_listings_count	-0.180194	0.093747
host_total_listings_count	-0.114324	0.070797
accommodates	-0.082687	0.030212
bedrooms	0.036231	-0.022604
beds	-0.007006	0.005331
price	-0.104107	0.073757
minimum_nights	1.000000	-0.168132
maximum_nights	-0.168132	1.000000
minimum_minimum_nights	0.514335	-0.181973
maximum_minimum_nights	0.504328	-0.115860
minimum_maximum_nights	0.050820	-0.152485
maximum_maximum_nights	0.024968	-0.164775
minimum_nights_avg_ntm	0.819671	-0.154100
maximum_nights_avg_ntm	0.046241	-0.161793
availability_30	-0.033622	0.063645
availability_60	-0.058566	0.078575
availability_90	-0.070579	0.085588
availability_365	-0.112561	0.119830
number_of_reviews	0.080622	-0.183188
number_of_reviews_ltm	0.081425	-0.121586
number_of_reviews_l30d	-0.004469	-0.041204
availability_eoy	-0.124666	0.126587
number_of_reviews_ly	0.090918	-0.118051
estimated_occupancy_l365d	0.120533	-0.081943
estimated_revenue_l365d	0.113502	-0.085534
calculated_host_listings_count	-0.193358	0.117839
calculated_host_listings_count_entire_homes	-0.074224	0.060620
calculated_host_listings_count_private_rooms	-0.043156	-0.035835
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	0.036470	-0.115678

	minimum_minimum_nights \
id	-0.037523
scrape_id	NaN

host_id	-0.082964
latitude	-0.046122
longitude	-0.016943
host_response_rate	0.060913
host_acceptance_rate	0.028545
review_scores_rating	0.124235
review_scores_accuracy	0.122508
review_scores_cleanliness	0.119918
review_scores_checkin	0.120471
review_scores_communication	0.120950
review_scores_location	0.111380
review_scores_value	0.123799
bathrooms	-0.026876
host_listings_count	-0.111590
host_total_listings_count	-0.101783
accommodates	-0.022132
bedrooms	0.010812
beds	-0.059625
price	-0.109696
minimum_nights	0.514335
maximum_nights	-0.181973
minimum_minimum_nights	1.000000
maximum_minimum_nights	0.343214
minimum_maximum_nights	-0.065531
maximum_maximum_nights	-0.089665
minimum_nights_avg_ntm	0.527723
maximum_nights_avg_ntm	-0.077570
availability_30	0.042205
availability_60	0.019696
availability_90	0.014860
availability_365	-0.020562
number_of_reviews	0.130006
number_of_reviews_ltm	0.156076
number_of_reviews_l30d	0.044956
availability_eoy	-0.027700
number_of_reviews_ly	0.157562
estimated_occupancy_l365d	0.090239
estimated_revenue_l365d	0.049477
calculated_host_listings_count	-0.120817
calculated_host_listings_count_entire_homes	-0.044543
calculated_host_listings_count_private_rooms	0.010920
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.116487

	maximum_minimum_nights \
id	-0.169841
scrape_id	NaN
host_id	-0.170088

latitude	0.021439
longitude	-0.014526
host_response_rate	0.001864
host_acceptance_rate	0.039802
review_scores_rating	0.076629
review_scores_accuracy	0.076336
review_scores_cleanliness	0.073367
review_scores_checkin	0.077271
review_scores_communication	0.075851
review_scores_location	0.076818
review_scores_value	0.080094
bathrooms	-0.031903
host_listings_count	-0.003485
host_total_listings_count	0.015597
accommodates	-0.013183
bedrooms	0.011021
beds	0.002703
price	-0.001758
minimum_nights	0.504328
maximum_nights	-0.115860
minimum_minimum_nights	0.343214
maximum_minimum_nights	1.000000
minimum_maximum_nights	-0.009263
maximum_maximum_nights	0.011489
minimum_nights_avg_ntm	0.684410
maximum_nights_avg_ntm	0.003048
availability_30	-0.093606
availability_60	-0.066861
availability_90	-0.057219
availability_365	-0.079136
number_of_reviews	0.104308
number_of_reviews_ltm	0.088193
number_of_reviews_l30d	0.035836
availability_eoy	-0.069796
number_of_reviews_ly	0.086819
estimated_occupancy_l365d	0.080367
estimated_revenue_l365d	0.090883
calculated_host_listings_count	-0.044958
calculated_host_listings_count_entire_homes	0.094356
calculated_host_listings_count_private_rooms	-0.068835
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.048145

	minimum_maximum_nights \
id	-0.338564
scrape_id	NaN
host_id	-0.225016
latitude	-0.008903

longitude	0.015069
host_response_rate	-0.012137
host_acceptance_rate	0.026089
review_scores_rating	0.073104
review_scores_accuracy	0.074136
review_scores_cleanliness	0.073610
review_scores_checkin	0.077046
review_scores_communication	0.074589
review_scores_location	0.073016
review_scores_value	0.074815
bathrooms	0.012320
host_listings_count	0.040961
host_total_listings_count	0.066925
accommodates	-0.004617
bedrooms	0.015702
beds	0.057899
price	0.003224
minimum_nights	0.050820
maximum_nights	-0.152485
minimum_minimum_nights	-0.065531
maximum_minimum_nights	-0.009263
minimum_maximum_nights	1.000000
maximum_maximum_nights	0.911052
minimum_nights_avg_ntm	0.036461
maximum_nights_avg_ntm	0.972941
availability_30	-0.086749
availability_60	-0.092887
availability_90	-0.097000
availability_365	-0.040436
number_of_reviews	0.072176
number_of_reviews_ltm	0.024702
number_of_reviews_l30d	0.015030
availability_eoy	-0.066119
number_of_reviews_ly	0.024613
estimated_occupancy_l365d	0.066300
estimated_revenue_l365d	0.081924
calculated_host_listings_count	0.009367
calculated_host_listings_count_entire_homes	0.036284
calculated_host_listings_count_private_rooms	0.024928
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.040961

	maximum_maximum_nights \
id	-0.341544
scrape_id	NaN
host_id	-0.224579
latitude	-0.002232
longitude	0.012095

host_response_rate	-0.003133
host_acceptance_rate	0.059976
review_scores_rating	0.085952
review_scores_accuracy	0.087311
review_scores_cleanliness	0.086802
review_scores_checkin	0.090765
review_scores_communication	0.088242
review_scores_location	0.087669
review_scores_value	0.087556
bathrooms	0.002464
host_listings_count	0.085070
host_total_listings_count	0.094284
accommodates	0.002929
bedrooms	-0.003745
beds	0.055231
price	0.030301
minimum_nights	0.024968
maximum_nights	-0.164775
minimum_minimum_nights	-0.089665
maximum_minimum_nights	0.011489
minimum_maximum_nights	0.911052
maximum_maximum_nights	1.000000
minimum_nights_avg_ntm	0.018344
maximum_nights_avg_ntm	0.962180
availability_30	-0.100216
availability_60	-0.102279
availability_90	-0.104597
availability_365	-0.040954
number_of_reviews	0.082117
number_of_reviews_ltm	0.033422
number_of_reviews_l30d	0.022906
availability_eoy	-0.065301
number_of_reviews_ly	0.030181
estimated_occupancy_l365d	0.070462
estimated_revenue_l365d	0.091367
calculated_host_listings_count	0.031942
calculated_host_listings_count_entire_homes	0.064130
calculated_host_listings_count_private_rooms	0.027174
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.055932

	minimum_nights_avg_ntm \
id	-0.164942
scrape_id	NaN
host_id	-0.172908
latitude	-0.025436
longitude	0.011119
host_response_rate	-0.010590

host_acceptance_rate	-0.056360
review_scores_rating	0.071915
review_scores_accuracy	0.070636
review_scores_cleanliness	0.065129
review_scores_checkin	0.069585
review_scores_communication	0.069687
review_scores_location	0.062172
review_scores_value	0.075206
bathrooms	-0.028941
host_listings_count	-0.130086
host_total_listings_count	-0.079996
accommodates	-0.059267
bedrooms	0.025683
beds	-0.000364
price	-0.084507
minimum_nights	0.819671
maximum_nights	-0.154100
minimum_minimum_nights	0.527723
maximum_minimum_nights	0.684410
minimum_maximum_nights	0.036461
maximum_maximum_nights	0.018344
minimum_nights_avg_ntm	1.000000
maximum_nights_avg_ntm	0.033276
availability_30	-0.051858
availability_60	-0.062392
availability_90	-0.067082
availability_365	-0.101325
number_of_reviews	0.096003
number_of_reviews_ltm	0.095025
number_of_reviews_l30d	0.027782
availability_eoy	-0.109481
number_of_reviews_ly	0.100643
estimated_occupancy_l365d	0.112273
estimated_revenue_l365d	0.110009
calculated_host_listings_count	-0.158254
calculated_host_listings_count_entire_homes	-0.039355
calculated_host_listings_count_private_rooms	-0.040737
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.045099

	maximum_nights_avg_ntm \
id	-0.343615
scrape_id	NaN
host_id	-0.226712
latitude	-0.004018
longitude	0.013645
host_response_rate	-0.006934
host_acceptance_rate	0.040552

review_scores_rating	0.078450
review_scores_accuracy	0.079409
review_scores_cleanliness	0.078409
review_scores_checkin	0.082687
review_scores_communication	0.079916
review_scores_location	0.079302
review_scores_value	0.079900
bathrooms	0.008627
host_listings_count	0.063121
host_total_listings_count	0.080319
accommodates	-0.005185
bedrooms	0.004713
beds	0.055896
price	0.013244
minimum_nights	0.046241
maximum_nights	-0.161793
minimum_minimum_nights	-0.077570
maximum_minimum_nights	0.003048
minimum_maximum_nights	0.972941
maximum_maximum_nights	0.962180
minimum_nights_avg_ntm	0.033276
maximum_nights_avg_ntm	1.000000
availability_30	-0.094182
availability_60	-0.099454
availability_90	-0.103789
availability_365	-0.046329
number_of_reviews	0.078303
number_of_reviews_ltm	0.034609
number_of_reviews_l30d	0.019886
availability_eoy	-0.072078
number_of_reviews_ly	0.031460
estimated_occupancy_l365d	0.074449
estimated_revenue_l365d	0.090479
calculated_host_listings_count	0.014467
calculated_host_listings_count_entire_homes	0.042779
calculated_host_listings_count_private_rooms	0.022581
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.053485

	availability_30 \
id	0.132886
scrape_id	NaN
host_id	0.076385
latitude	-0.043767
longitude	-0.013836
host_response_rate	-0.066290
host_acceptance_rate	-0.178118
review_scores_rating	-0.058205

review_scores_accuracy	-0.060285
review_scores_cleanliness	-0.056333
review_scores_checkin	-0.059140
review_scores_communication	-0.059788
review_scores_location	-0.065564
review_scores_value	-0.063865
bathrooms	0.033095
host_listings_count	-0.041711
host_total_listings_count	-0.018008
accommodates	0.045397
bedrooms	-0.002282
beds	-0.053028
price	0.004931
minimum_nights	-0.033622
maximum_nights	0.063645
minimum_minimum_nights	0.042205
maximum_minimum_nights	-0.093606
minimum_maximum_nights	-0.086749
maximum_maximum_nights	-0.100216
minimum_nights_avg_ntm	-0.051858
maximum_nights_avg_ntm	-0.094182
availability_30	1.000000
availability_60	0.950227
availability_90	0.908140
availability_365	0.656908
number_of_reviews	-0.049183
number_of_reviews_ltm	-0.054572
number_of_reviews_l30d	-0.040631
availability_eoy	0.696547
number_of_reviews_ly	-0.052471
estimated_occupancy_l365d	-0.090937
estimated_revenue_l365d	-0.132105
calculated_host_listings_count	-0.031607
calculated_host_listings_count_entire_homes	-0.007411
calculated_host_listings_count_private_rooms	-0.005157
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.080921

	availability_60 \
id	0.131340
scrape_id	NaN
host_id	0.073683
latitude	-0.037105
longitude	-0.021178
host_response_rate	-0.056208
host_acceptance_rate	-0.154048
review_scores_rating	-0.050180
review_scores_accuracy	-0.051979



review_scores_cleanliness	-0.048123
review_scores_checkin	-0.050591
review_scores_communication	-0.050783
review_scores_location	-0.055838
review_scores_value	-0.056054
bathrooms	0.032338
host_listings_count	-0.012210
host_total_listings_count	0.003390
accommodates	0.034199
bedrooms	-0.013663
beds	-0.071075
price	0.003735
minimum_nights	-0.058566
maximum_nights	0.078575
minimum_minimum_nights	0.019696
maximum_minimum_nights	-0.066861
minimum_maximum_nights	-0.092887
maximum_maximum_nights	-0.102279
minimum_nights_avg_ntm	-0.062392
maximum_nights_avg_ntm	-0.099454
availability_30	0.950227
availability_60	1.000000
availability_90	0.982854
availability_365	0.717521
number_of_reviews	-0.036051
number_of_reviews_ltm	-0.042924
number_of_reviews_l30d	-0.026770
availability_eoy	0.766294
number_of_reviews_ly	-0.042168
estimated_occupancy_l365d	-0.076964
estimated_revenue_l365d	-0.122318
calculated_host_listings_count	-0.004658
calculated_host_listings_count_entire_homes	0.019328
calculated_host_listings_count_private_rooms	-0.014822
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.067237

	availability_90 \
id	0.140268
scrape_id	NaN
host_id	0.077376
latitude	-0.036533
longitude	-0.021931
host_response_rate	-0.051133
host_acceptance_rate	-0.134630
review_scores_rating	-0.040948
review_scores_accuracy	-0.042530
review_scores_cleanliness	-0.038852

review_scores_checkin	-0.041430
review_scores_communication	-0.040842
review_scores_location	-0.046610
review_scores_value	-0.046903
bathrooms	0.031752
host_listings_count	0.001431
host_total_listings_count	0.011996
accommodates	0.035613
bedrooms	-0.014504
beds	-0.075809
price	-0.012926
minimum_nights	-0.070579
maximum_nights	0.085588
minimum_minimum_nights	0.014860
maximum_minimum_nights	-0.057219
minimum_maximum_nights	-0.097000
maximum_maximum_nights	-0.104597
minimum_nights_avg_ntm	-0.067082
maximum_nights_avg_ntm	-0.103789
availability_30	0.908140
availability_60	0.982854
availability_90	1.000000
availability_365	0.749517
number_of_reviews	-0.027885
number_of_reviews_ltm	-0.026736
number_of_reviews_l30d	-0.015524
availability_eoy	0.802076
number_of_reviews_ly	-0.025514
estimated_occupancy_l365d	-0.060070
estimated_revenue_l365d	-0.114001
calculated_host_listings_count	0.003119
calculated_host_listings_count_entire_homes	0.027211
calculated_host_listings_count_private_rooms	-0.018054
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.049997

	availability_365 \
id	0.140052
scrape_id	NaN
host_id	0.074998
latitude	-0.018990
longitude	-0.030231
host_response_rate	-0.040167
host_acceptance_rate	-0.078006
review_scores_rating	-0.035777
review_scores_accuracy	-0.036514
review_scores_cleanliness	-0.032299
review_scores_checkin	-0.035425

review_scores_communication	-0.035393
review_scores_location	-0.036104
review_scores_value	-0.038598
bathrooms	0.039030
host_listings_count	0.048100
host_total_listings_count	0.046929
accommodates	0.036175
bedrooms	-0.024954
beds	-0.067148
price	-0.019206
minimum_nights	-0.112561
maximum_nights	0.119830
minimum_minimum_nights	-0.020562
maximum_minimum_nights	-0.079136
minimum_maximum_nights	-0.040436
maximum_maximum_nights	-0.040954
minimum_nights_avg_ntm	-0.101325
maximum_nights_avg_ntm	-0.046329
availability_30	0.656908
availability_60	0.717521
availability_90	0.749517
availability_365	1.000000
number_of_reviews	-0.032323
number_of_reviews_ltm	-0.017051
number_of_reviews_l30d	-0.006476
availability_eoy	0.980816
number_of_reviews_ly	-0.014659
estimated_occupancy_l365d	-0.034634
estimated_revenue_l365d	-0.100057
calculated_host_listings_count	0.040233
calculated_host_listings_count_entire_homes	0.049500
calculated_host_listings_count_private_rooms	0.014227
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.026741

	number_of_reviews \
id	-0.270160
scrape_id	NaN
host_id	-0.207830
latitude	-0.026093
longitude	0.016381
host_response_rate	0.088569
host_acceptance_rate	0.152959
review_scores_rating	0.366881
review_scores_accuracy	0.369551
review_scores_cleanliness	0.365129
review_scores_checkin	0.366603
review_scores_communication	0.367334

review_scores_location	0.360515
review_scores_value	0.370854
bathrooms	-0.001089
host_listings_count	0.030068
host_total_listings_count	0.030013
accommodates	-0.054498
bedrooms	-0.048282
beds	-0.086539
price	-0.191340
minimum_nights	0.080622
maximum_nights	-0.183188
minimum_minimum_nights	0.130006
maximum_minimum_nights	0.104308
minimum_maximum_nights	0.072176
maximum_maximum_nights	0.082117
minimum_nights_avg_ntm	0.096003
maximum_nights_avg_ntm	0.078303
availability_30	-0.049183
availability_60	-0.036051
availability_90	-0.027885
availability_365	-0.032323
number_of_reviews	1.000000
number_of_reviews_ltm	0.484723
number_of_reviews_l30d	0.208606
availability_eoy	-0.028727
number_of_reviews_ly	0.505013
estimated_occupancy_l365d	0.487924
estimated_revenue_l365d	0.442187
calculated_host_listings_count	0.001686
calculated_host_listings_count_entire_homes	0.023872
calculated_host_listings_count_private_rooms	0.001888
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.469175

	number_of_reviews_ltm \
id	-0.090155
scrape_id	NaN
host_id	-0.123987
latitude	-0.006014
longitude	0.019834
host_response_rate	0.115840
host_acceptance_rate	0.212027
review_scores_rating	0.347958
review_scores_accuracy	0.349428
review_scores_cleanliness	0.343524
review_scores_checkin	0.344808
review_scores_communication	0.347079
review_scores_location	0.340581

review_scores_value	0.349105
bathrooms	-0.007808
host_listings_count	0.010751
host_total_listings_count	0.000889
accommodates	-0.081122
bedrooms	-0.066383
beds	-0.140119
price	-0.290524
minimum_nights	0.081425
maximum_nights	-0.121586
minimum_minimum_nights	0.156076
maximum_minimum_nights	0.088193
minimum_maximum_nights	0.024702
maximum_maximum_nights	0.033422
minimum_nights_avg_ntm	0.095025
maximum_nights_avg_ntm	0.034609
availability_30	-0.054572
availability_60	-0.042924
availability_90	-0.026736
availability_365	-0.017051
number_of_reviews	0.484723
number_of_reviews_ltm	1.000000
number_of_reviews_l30d	0.318859
availability_eoy	-0.011163
number_of_reviews_ly	0.923675
estimated_occupancy_l365d	0.775584
estimated_revenue_l365d	0.676217
calculated_host_listings_count	-0.051722
calculated_host_listings_count_entire_homes	0.006422
calculated_host_listings_count_private_rooms	-0.012837
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.722504

	number_of_reviews_l30d \
id	0.014708
scrape_id	NaN
host_id	-0.055282
latitude	-0.013666
longitude	-0.004151
host_response_rate	0.086287
host_acceptance_rate	0.133791
review_scores_rating	0.212995
review_scores_accuracy	0.213974
review_scores_cleanliness	0.210074
review_scores_checkin	0.212874
review_scores_communication	0.213681
review_scores_location	0.212704
review_scores_value	0.214897

bathrooms	-0.013852
host_listings_count	0.014367
host_total_listings_count	-0.003139
accommodates	-0.030807
bedrooms	-0.029032
beds	-0.078902
price	-0.152780
minimum_nights	-0.004469
maximum_nights	-0.041204
minimum_minimum_nights	0.044956
maximum_minimum_nights	0.035836
minimum_maximum_nights	0.015030
maximum_maximum_nights	0.022906
minimum_nights_avg_ntm	0.027782
maximum_nights_avg_ntm	0.019886
availability_30	-0.040631
availability_60	-0.026770
availability_90	-0.015524
availability_365	-0.006476
number_of_reviews	0.208606
number_of_reviews_ltm	0.318859
number_of_reviews_l30d	1.000000
availability_eoy	-0.005611
number_of_reviews_ly	0.289364
estimated_occupancy_l365d	0.281293
estimated_revenue_l365d	0.241485
calculated_host_listings_count	-0.016511
calculated_host_listings_count_entire_homes	0.056245
calculated_host_listings_count_private_rooms	-0.000617
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.359892

	availability_eoy \
id	0.157164
scrape_id	NaN
host_id	0.087651
latitude	-0.018175
longitude	-0.026647
host_response_rate	-0.039218
host_acceptance_rate	-0.072170
review_scores_rating	-0.032502
review_scores_accuracy	-0.033220
review_scores_cleanliness	-0.028907
review_scores_checkin	-0.032439
review_scores_communication	-0.032126
review_scores_location	-0.033573
review_scores_value	-0.036133
bathrooms	0.030413

host_listings_count	0.052108
host_total_listings_count	0.048139
accommodates	0.033752
bedrooms	-0.028585
beds	-0.078973
price	-0.013167
minimum_nights	-0.124666
maximum_nights	0.126587
minimum_minimum_nights	-0.027700
maximum_minimum_nights	-0.069796
minimum_maximum_nights	-0.066119
maximum_maximum_nights	-0.065301
minimum_nights_avg_ntm	-0.109481
maximum_nights_avg_ntm	-0.072078
availability_30	0.696547
availability_60	0.766294
availability_90	0.802076
availability_365	0.980816
number_of_reviews	-0.028727
number_of_reviews_ltm	-0.011163
number_of_reviews_l30d	-0.005611
availability_eoy	1.000000
number_of_reviews_ly	-0.008035
estimated_occupancy_l365d	-0.033307
estimated_revenue_l365d	-0.096957
calculated_host_listings_count	0.048610
calculated_host_listings_count_entire_homes	0.051981
calculated_host_listings_count_private_rooms	0.010561
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.025574

	number_of_reviews_ly \
id	-0.102070
scrape_id	NaN
host_id	-0.132668
latitude	-0.010352
longitude	0.020320
host_response_rate	0.110523
host_acceptance_rate	0.202329
review_scores_rating	0.338477
review_scores_accuracy	0.339910
review_scores_cleanliness	0.334001
review_scores_checkin	0.335317
review_scores_communication	0.337796
review_scores_location	0.330881
review_scores_value	0.339339
bathrooms	-0.002120
host_listings_count	0.002898

host_total_listings_count	-0.004158
accommodates	-0.079626
bedrooms	-0.062822
beds	-0.139152
price	-0.282364
minimum_nights	0.090918
maximum_nights	-0.118051
minimum_minimum_nights	0.157562
maximum_minimum_nights	0.086819
minimum_maximum_nights	0.024613
maximum_maximum_nights	0.030181
minimum_nights_avg_ntm	0.100643
maximum_nights_avg_ntm	0.031460
availability_30	-0.052471
availability_60	-0.042168
availability_90	-0.025514
availability_365	-0.014659
number_of_reviews	0.505013
number_of_reviews_ltm	0.923675
number_of_reviews_l30d	0.289364
availability_eoy	-0.008035
number_of_reviews_ly	1.000000
estimated_occupancy_l365d	0.760667
estimated_revenue_l365d	0.665563
calculated_host_listings_count	-0.041305
calculated_host_listings_count_entire_homes	0.000668
calculated_host_listings_count_private_rooms	-0.003773
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.696531

	estimated_occupancy_l365d \
id	-0.092309
scrape_id	NaN
host_id	-0.142578
latitude	-0.020259
longitude	0.029473
host_response_rate	0.111609
host_acceptance_rate	0.213667
review_scores_rating	0.397578
review_scores_accuracy	0.399270
review_scores_cleanliness	0.391630
review_scores_checkin	0.395444
review_scores_communication	0.398034
review_scores_location	0.390084
review_scores_value	0.399276
bathrooms	0.002171
host_listings_count	-0.002151
host_total_listings_count	0.006226



accommodates	-0.111702
bedrooms	-0.065955
beds	-0.151798
price	-0.342564
minimum_nights	0.120533
maximum_nights	-0.081943
minimum_minimum_nights	0.090239
maximum_minimum_nights	0.080367
minimum_maximum_nights	0.066300
maximum_maximum_nights	0.070462
minimum_nights_avg_ntm	0.112273
maximum_nights_avg_ntm	0.074449
availability_30	-0.090937
availability_60	-0.076964
availability_90	-0.060070
availability_365	-0.034634
number_of_reviews	0.487924
number_of_reviews_ltm	0.775584
number_of_reviews_l30d	0.281293
availability_eoy	-0.033307
number_of_reviews_ly	0.760667
estimated_occupancy_l365d	1.000000
estimated_revenue_l365d	0.831366
calculated_host_listings_count	-0.054700
calculated_host_listings_count_entire_homes	-0.017133
calculated_host_listings_count_private_rooms	-0.020729
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.733891

	estimated_revenue_l365d \
id	-0.150528
scrape_id	NaN
host_id	-0.138824
latitude	0.021106
longitude	0.015764
host_response_rate	0.109021
host_acceptance_rate	0.205150
review_scores_rating	0.339542
review_scores_accuracy	0.340909
review_scores_cleanliness	0.336222
review_scores_checkin	0.338275
review_scores_communication	0.338366
review_scores_location	0.341240
review_scores_value	0.340706
bathrooms	-0.036925
host_listings_count	0.024381
host_total_listings_count	0.029766
accommodates	-0.044073

bedrooms	-0.042502
beds	-0.069153
price	-0.140155
minimum_nights	0.113502
maximum_nights	-0.085534
minimum_minimum_nights	0.049477
maximum_minimum_nights	0.090883
minimum_maximum_nights	0.081924
maximum_maximum_nights	0.091367
minimum_nights_avg_ntm	0.110009
maximum_nights_avg_ntm	0.090479
availability_30	-0.132105
availability_60	-0.122318
availability_90	-0.114001
availability_365	-0.100057
number_of_reviews	0.442187
number_of_reviews_ltm	0.676217
number_of_reviews_l30d	0.241485
availability_eoy	-0.096957
number_of_reviews_ly	0.665563
estimated_occupancy_l365d	0.831366
estimated_revenue_l365d	1.000000
calculated_host_listings_count	-0.033911
calculated_host_listings_count_entire_homes	-0.008722
calculated_host_listings_count_private_rooms	-0.023073
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.630580

	calculated_host_listings_count \
id	-0.032807
scrape_id	NaN
host_id	-0.004487
latitude	0.087587
longitude	-0.057041
host_response_rate	0.050834
host_acceptance_rate	0.076913
review_scores_rating	0.002786
review_scores_accuracy	0.004029
review_scores_cleanliness	0.005827
review_scores_checkin	0.005694
review_scores_communication	0.004686
review_scores_location	0.016222
review_scores_value	0.003411
bathrooms	0.003496
host_listings_count	0.745405
host_total_listings_count	0.648516
accommodates	0.093664
bedrooms	-0.038001

beds	0.020615
price	0.139222
minimum_nights	-0.193358
maximum_nights	0.117839
minimum_minimum_nights	-0.120817
maximum_minimum_nights	-0.044958
minimum_maximum_nights	0.009367
maximum_maximum_nights	0.031942
minimum_nights_avg_ntm	-0.158254
maximum_nights_avg_ntm	0.014467
availability_30	-0.031607
availability_60	-0.004658
availability_90	0.003119
availability_365	0.040233
number_of_reviews	0.001686
number_of_reviews_ltm	-0.051722
number_of_reviews_l30d	-0.016511
availability_eoy	0.048610
number_of_reviews_ly	-0.041305
estimated_occupancy_l365d	-0.054700
estimated_revenue_l365d	-0.033911
calculated_host_listings_count	1.000000
calculated_host_listings_count_entire_homes	0.308406
calculated_host_listings_count_private_rooms	0.018767
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.034362

calculated_host_listings_count_entire_homes \	
id	
-0.017153	
scrape_id	
NaN	
host_id	
-0.138845	
latitude	
0.057360	
longitude	
-0.062231	
host_response_rate	
0.010141	
host_acceptance_rate	
0.103540	
review_scores_rating	
0.035156	
review_scores_accuracy	
0.033757	

review_scores_cleanliness	↪0.038797	⌋
review_scores_checkin	↪0.037112	⌋
review_scores_communication	↪0.037912	⌋
review_scores_location	↪0.050219	⌋
review_scores_value	↪0.036860	⌋
bathrooms	↪0.005738	⌋
host_listings_count	↪0.288783	⌋
host_total_listings_count	↪0.256609	⌋
accommodates	↪0.103026	⌋
bedrooms	↪-0.015486	⌋
beds	↪0.007244	⌋
price	↪0.116644	⌋
minimum_nights	↪-0.074224	⌋
maximum_nights	↪0.060620	⌋
minimum_minimum_nights	↪-0.044543	⌋
maximum_minimum_nights	↪0.094356	⌋
minimum_maximum_nights	↪0.036284	⌋
maximum_maximum_nights	↪0.064130	⌋
minimum_nights_avg_ntm	↪-0.039355	⌋
maximum_nights_avg_ntm	↪0.042779	⌋
availability_30	↪-0.007411	⌋
availability_60	↪0.019328	⌋
availability_90	↪0.027211	⌋

availability_365	↪0.049500	⌋
number_of_reviews	↪0.023872	⌋
number_of_reviews_ltm	↪0.006422	⌋
number_of_reviews_l30d	↪0.056245	⌋
availability_eoy	↪0.051981	⌋
number_of_reviews_ly	↪0.000668	⌋
estimated_occupancy_l365d	↪-0.017133	⌋
estimated_revenue_l365d	↪-0.008722	⌋
calculated_host_listings_count	↪0.308406	⌋
calculated_host_listings_count_entire_homes	↪1.000000	⌋
calculated_host_listings_count_private_rooms	↪-0.130726	⌋
calculated_host_listings_count_shared_rooms	↪NaN	⌋
reviews_per_month	↪-0.016439	⌋
	↪calculated_host_listings_count_private_rooms \	⌋
id	↪-0.013531	⌋
scrape_id	↪NaN	⌋
host_id	↪0.087045	⌋
latitude	↪-0.000582	⌋
longitude	↪-0.031395	⌋
host_response_rate	↪-0.008125	⌋
host_acceptance_rate	↪0.013898	⌋
review_scores_rating	↪0.033499	⌋

review_scores_accuracy	↪ 0.035271	⌋
review_scores_cleanliness	↪ 0.035264	⌋
review_scores_checkin	↪ 0.033429	⌋
review_scores_communication	↪ 0.035219	⌋
review_scores_location	↪ 0.035602	⌋
review_scores_value	↪ 0.034196	⌋
bathrooms	↪ 0.001675	⌋
host_listings_count	↪ -0.031825	⌋
host_total_listings_count	↪ -0.015797	⌋
accommodates	↪ 0.034456	⌋
bedrooms	↪ -0.022844	⌋
beds	↪ -0.009327	⌋
price	↪ 0.041555	⌋
minimum_nights	↪ -0.043156	⌋
maximum_nights	↪ -0.035835	⌋
minimum_minimum_nights	↪ 0.010920	⌋
maximum_minimum_nights	↪ -0.068835	⌋
minimum_maximum_nights	↪ 0.024928	⌋
maximum_maximum_nights	↪ 0.027174	⌋
minimum_nights_avg_ntm	↪ -0.040737	⌋
maximum_nights_avg_ntm	↪ 0.022581	⌋
availability_30	↪ -0.005157	⌋
availability_60	↪ -0.014822	⌋

availability_90		␣
↪ -0.018054		
availability_365		␣
↪ 0.014227		
number_of_reviews		␣
↪ 0.001888		
number_of_reviews_ltm		␣
↪ -0.012837		
number_of_reviews_l30d		␣
↪ -0.000617		
availability_eoy		␣
↪ 0.010561		
number_of_reviews_ly		␣
↪ -0.003773		
estimated_occupancy_l365d		␣
↪ -0.020729		
estimated_revenue_l365d		␣
↪ -0.023073		
calculated_host_listings_count		␣
↪ 0.018767		
calculated_host_listings_count_entire_homes		␣
↪ -0.130726		
calculated_host_listings_count_private_rooms		␣
↪ 1.000000		
calculated_host_listings_count_shared_rooms		␣
↪ NaN		
reviews_per_month		␣
↪ -0.008414		
↪ calculated_host_listings_count_shared_rooms \		␣
id		␣
↪ NaN		
scrape_id		␣
↪ NaN		
host_id		␣
↪ NaN		
latitude		␣
↪ NaN		
longitude		␣
↪ NaN		
host_response_rate		␣
↪ NaN		
host_acceptance_rate		␣
↪ NaN		

review_scores_rating	↳ NaN	⌋
review_scores_accuracy	↳ NaN	⌋
review_scores_cleanliness	↳ NaN	⌋
review_scores_checkin	↳ NaN	⌋
review_scores_communication	↳ NaN	⌋
review_scores_location	↳ NaN	⌋
review_scores_value	↳ NaN	⌋
bathrooms	↳ NaN	⌋
host_listings_count	↳ NaN	⌋
host_total_listings_count	↳ NaN	⌋
accommodates	↳ NaN	⌋
bedrooms	↳ NaN	⌋
beds	↳ NaN	⌋
price	↳ NaN	⌋
minimum_nights	↳ NaN	⌋
maximum_nights	↳ NaN	⌋
minimum_minimum_nights	↳ NaN	⌋
maximum_minimum_nights	↳ NaN	⌋
minimum_maximum_nights	↳ NaN	⌋
maximum_maximum_nights	↳ NaN	⌋
minimum_nights_avg_ntm	↳ NaN	⌋
maximum_nights_avg_ntm	↳ NaN	⌋
availability_30	↳ NaN	⌋



availability_60		□
↪ NaN		
availability_90		□
↪ NaN		
availability_365		□
↪ NaN		
number_of_reviews		□
↪ NaN		
number_of_reviews_ltm		□
↪ NaN		
number_of_reviews_l30d		□
↪ NaN		
availability_eoy		□
↪ NaN		
number_of_reviews_ly		□
↪ NaN		
estimated_occupancy_l365d		□
↪ NaN		
estimated_revenue_l365d		□
↪ NaN		
calculated_host_listings_count		□
↪ NaN		
calculated_host_listings_count_entire_homes		□
↪ NaN		
calculated_host_listings_count_private_rooms		□
↪ NaN		
calculated_host_listings_count_shared_rooms		□
↪ NaN		
reviews_per_month		□
↪ NaN		

	reviews_per_month
id	-0.047545
scrape_id	NaN
host_id	-0.110733
latitude	-0.004359
longitude	0.034951
host_response_rate	0.130531
host_acceptance_rate	0.234099
review_scores_rating	0.429751
review_scores_accuracy	0.431979
review_scores_cleanliness	0.425529
review_scores_checkin	0.427573
review_scores_communication	0.429564
review_scores_location	0.423328
review_scores_value	0.432966

bathrooms	-0.018666
host_listings_count	0.019846
host_total_listings_count	0.008766
accommodates	-0.085849
bedrooms	-0.069460
beds	-0.148365
price	-0.303493
minimum_nights	0.036470
maximum_nights	-0.115678
minimum_minimum_nights	0.116487
maximum_minimum_nights	0.048145
minimum_maximum_nights	0.040961
maximum_maximum_nights	0.055932
minimum_nights_avg_ntm	0.045099
maximum_nights_avg_ntm	0.053485
availability_30	-0.080921
availability_60	-0.067237
availability_90	-0.049997
availability_365	-0.026741
number_of_reviews	0.469175
number_of_reviews_ltm	0.722504
number_of_reviews_l30d	0.359892
availability_eoy	-0.025574
number_of_reviews_ly	0.696531
estimated_occupancy_l365d	0.733891
estimated_revenue_l365d	0.630580
calculated_host_listings_count	-0.034362
calculated_host_listings_count_entire_homes	-0.016439
calculated_host_listings_count_private_rooms	-0.008414
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	1.000000

=====

Full Correlation Matrix for 'Shared room':

	id	scrape_id	host_id	\
id	1.000000	NaN	0.020259	
scrape_id	NaN	NaN	NaN	
host_id	0.020259	NaN	1.000000	
latitude	-0.218509	NaN	0.237896	
longitude	0.019882	NaN	0.360253	
host_response_rate	0.178835	NaN	-0.232127	
host_acceptance_rate	-0.059825	NaN	-0.121725	
review_scores_rating	-0.549292	NaN	-0.245962	
review_scores_accuracy	-0.560987	NaN	-0.267065	
review_scores_cleanliness	-0.545862	NaN	-0.259692	
review_scores_checkin	-0.547861	NaN	-0.243035	

review_scores_communication	-0.538377	NaN	-0.257729
review_scores_location	-0.558973	NaN	-0.248560
review_scores_value	-0.522333	NaN	-0.267641
bathrooms	-0.256564	NaN	-0.186525
host_listings_count	0.129189	NaN	-0.363804
host_total_listings_count	-0.011434	NaN	-0.366946
accommodates	0.056061	NaN	-0.238576
bedrooms	-0.067508	NaN	0.209174
beds	0.040985	NaN	0.196925
price	-0.213833	NaN	0.129367
minimum_nights	-0.029228	NaN	-0.391136
maximum_nights	0.313562	NaN	0.131544
minimum_minimum_nights	-0.008900	NaN	-0.422451
maximum_minimum_nights	-0.196103	NaN	-0.390505
minimum_maximum_nights	0.019005	NaN	0.022845
maximum_maximum_nights	0.033046	NaN	0.026783
minimum_nights_avg_ntm	-0.144282	NaN	-0.397754
maximum_nights_avg_ntm	0.032371	NaN	0.026601
availability_30	0.332574	NaN	0.357640
availability_60	0.349684	NaN	0.345353
availability_90	0.351458	NaN	0.320818
availability_365	0.322842	NaN	0.054387
number_of_reviews	-0.549310	NaN	-0.033337
number_of_reviews_ltm	-0.353950	NaN	0.028503
number_of_reviews_l30d	0.089134	NaN	-0.345766
availability_eoy	0.281058	NaN	0.105156
number_of_reviews_ly	-0.188185	NaN	-0.050041
estimated_occupancy_l365d	-0.318864	NaN	0.064436
estimated_revenue_l365d	-0.665034	NaN	0.035581
calculated_host_listings_count	-0.011519	NaN	-0.246773
calculated_host_listings_count_entire_homes	0.172053	NaN	-0.095071
calculated_host_listings_count_private_rooms	0.073850	NaN	0.273813
calculated_host_listings_count_shared_rooms	NaN	NaN	NaN
reviews_per_month	-0.030540	NaN	-0.354285

	latitude	longitude	\
id	-0.218509	0.019882	
scrape_id	NaN	NaN	
host_id	0.237896	0.360253	
latitude	1.000000	0.725652	
longitude	0.725652	1.000000	
host_response_rate	-0.079461	0.049871	
host_acceptance_rate	-0.235186	-0.438888	
review_scores_rating	0.219204	0.040586	
review_scores_accuracy	0.220546	0.027856	
review_scores_cleanliness	0.212253	0.038629	
review_scores_checkin	0.224442	0.046195	
review_scores_communication	0.225225	0.045692	

review_scores_location	0.234066	0.034026
review_scores_value	0.228892	0.048390
bathrooms	0.145310	0.031393
host_listings_count	-0.152195	-0.374411
host_total_listings_count	-0.109100	-0.277074
accommodates	-0.252325	-0.141471
bedrooms	0.132456	-0.076351
beds	0.075844	0.217937
price	-0.011906	-0.200632
minimum_nights	0.122067	0.032822
maximum_nights	-0.023078	0.155690
minimum_minimum_nights	0.122393	0.044118
maximum_minimum_nights	0.164062	0.033451
minimum_maximum_nights	-0.034079	0.170091
maximum_maximum_nights	-0.021531	0.158641
minimum_nights_avg_ntm	0.153089	0.033846
maximum_nights_avg_ntm	-0.022162	0.159310
availability_30	0.104126	0.353778
availability_60	0.144400	0.385030
availability_90	0.160536	0.390867
availability_365	0.251904	0.387287
number_of_reviews	0.030251	-0.084217
number_of_reviews_ltm	-0.069988	-0.107627
number_of_reviews_l30d	0.034759	0.040799
availability_eoy	0.276269	0.414609
number_of_reviews_ly	-0.210366	-0.155458
estimated_occupancy_l365d	-0.040413	-0.128548
estimated_revenue_l365d	0.062250	-0.147355
calculated_host_listings_count	-0.151432	-0.413074
calculated_host_listings_count_entire_homes	-0.080926	0.062959
calculated_host_listings_count_private_rooms	0.289319	0.483105
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	-0.065398	-0.068047
		host_response_rate \
id		0.178835
scrape_id		NaN
host_id		-0.232127
latitude		-0.079461
longitude		0.049871
host_response_rate		1.000000
host_acceptance_rate		-0.045103
review_scores_rating		-0.091387
review_scores_accuracy		-0.088244
review_scores_cleanliness		-0.075917
review_scores_checkin		-0.081741
review_scores_communication		-0.083837
review_scores_location		-0.100471

review_scores_value	-0.072731
bathrooms	0.058327
host_listings_count	-0.008043
host_total_listings_count	-0.129612
accommodates	0.140444
bedrooms	-0.035313
beds	0.063364
price	-0.248271
minimum_nights	-0.167227
maximum_nights	-0.162825
minimum_minimum_nights	0.089579
maximum_minimum_nights	-0.137071
minimum_maximum_nights	0.034655
maximum_maximum_nights	0.040741
minimum_nights_avg_ntm	-0.149545
maximum_nights_avg_ntm	0.040469
availability_30	0.064471
availability_60	0.052447
availability_90	0.045720
availability_365	0.020880
number_of_reviews	0.119972
number_of_reviews_ltm	0.120533
number_of_reviews_l30d	0.124016
availability_eoy	-0.037663
number_of_reviews_ly	0.112922
estimated_occupancy_l365d	0.008023
estimated_revenue_l365d	0.021653
calculated_host_listings_count	-0.019600
calculated_host_listings_count_entire_homes	0.269268
calculated_host_listings_count_private_rooms	0.226245
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.185801

	host_acceptance_rate \
id	-0.059825
scrape_id	NaN
host_id	-0.121725
latitude	-0.235186
longitude	-0.438888
host_response_rate	-0.045103
host_acceptance_rate	1.000000
review_scores_rating	0.065632
review_scores_accuracy	0.074668
review_scores_cleanliness	0.071663
review_scores_checkin	0.065605
review_scores_communication	0.046122
review_scores_location	0.064683
review_scores_value	0.042321

bathrooms	-0.167359
host_listings_count	0.655375
host_total_listings_count	0.609253
accommodates	-0.275913
bedrooms	-0.097584
beds	-0.315297
price	0.289641
minimum_nights	0.034835
maximum_nights	-0.431588
minimum_minimum_nights	0.040711
maximum_minimum_nights	0.097872
minimum_maximum_nights	-0.379336
maximum_maximum_nights	-0.363882
minimum_nights_avg_ntm	0.078725
maximum_nights_avg_ntm	-0.364881
availability_30	-0.060389
availability_60	-0.030915
availability_90	-0.010877
availability_365	-0.111075
number_of_reviews	0.122498
number_of_reviews_ltm	0.076413
number_of_reviews_l30d	0.150131
availability_eoy	-0.090291
number_of_reviews_ly	-0.026576
estimated_occupancy_l365d	0.098851
estimated_revenue_l365d	0.187174
calculated_host_listings_count	0.731786
calculated_host_listings_count_entire_homes	-0.339098
calculated_host_listings_count_private_rooms	-0.365765
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.152620

	review_scores_rating \
id	-0.549292
scrape_id	NaN
host_id	-0.245962
latitude	0.219204
longitude	0.040586
host_response_rate	-0.091387
host_acceptance_rate	0.065632
review_scores_rating	1.000000
review_scores_accuracy	0.977991
review_scores_cleanliness	0.997498
review_scores_checkin	0.998200
review_scores_communication	0.996344
review_scores_location	0.995338
review_scores_value	0.994991
bathrooms	0.069937

host_listings_count	0.051785
host_total_listings_count	0.049985
accommodates	0.113928
bedrooms	0.127169
beds	0.013165
price	-0.145524
minimum_nights	0.154117
maximum_nights	-0.286696
minimum_minimum_nights	0.194455
maximum_minimum_nights	0.228714
minimum_maximum_nights	-0.072865
maximum_maximum_nights	-0.094420
minimum_nights_avg_ntm	0.208131
maximum_nights_avg_ntm	-0.093419
availability_30	-0.328428
availability_60	-0.307195
availability_90	-0.269922
availability_365	-0.120437
number_of_reviews	0.502696
number_of_reviews_ltm	0.474985
number_of_reviews_l30d	0.356870
availability_eoy	-0.108940
number_of_reviews_ly	0.417042
estimated_occupancy_l365d	0.509792
estimated_revenue_l365d	0.530360
calculated_host_listings_count	0.092545
calculated_host_listings_count_entire_homes	-0.061210
calculated_host_listings_count_private_rooms	0.068580
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.645699

	review_scores_accuracy \
id	-0.560987
scrape_id	NaN
host_id	-0.267065
latitude	0.220546
longitude	0.027856
host_response_rate	-0.088244
host_acceptance_rate	0.074668
review_scores_rating	0.977991
review_scores_accuracy	1.000000
review_scores_cleanliness	0.976768
review_scores_checkin	0.980277
review_scores_communication	0.980946
review_scores_location	0.976871
review_scores_value	0.978305
bathrooms	0.089661
host_listings_count	0.075567

host_total_listings_count	0.079767
accommodates	0.118206
bedrooms	0.125322
beds	-0.022827
price	-0.154803
minimum_nights	0.171782
maximum_nights	-0.305242
minimum_minimum_nights	0.193654
maximum_minimum_nights	0.245311
minimum_maximum_nights	-0.077320
maximum_maximum_nights	-0.098588
minimum_nights_avg_ntm	0.225369
maximum_nights_avg_ntm	-0.097603
availability_30	-0.309560
availability_60	-0.283207
availability_90	-0.243813
availability_365	-0.091137
number_of_reviews	0.508854
number_of_reviews_ltm	0.483988
number_of_reviews_l30d	0.337448
availability_eoy	-0.079784
number_of_reviews_ly	0.426739
estimated_occupancy_l365d	0.518533
estimated_revenue_l365d	0.537848
calculated_host_listings_count	0.115452
calculated_host_listings_count_entire_homes	-0.093213
calculated_host_listings_count_private_rooms	0.031992
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.646262

	review_scores_cleanliness \
id	-0.545862
scrape_id	NaN
host_id	-0.259692
latitude	0.212253
longitude	0.038629
host_response_rate	-0.075917
host_acceptance_rate	0.071663
review_scores_rating	0.997498
review_scores_accuracy	0.976768
review_scores_cleanliness	1.000000
review_scores_checkin	0.996980
review_scores_communication	0.995316
review_scores_location	0.992465
review_scores_value	0.993683
bathrooms	0.070220
host_listings_count	0.060307
host_total_listings_count	0.060069



accommodates	0.122567
bedrooms	0.127139
beds	0.012968
price	-0.142960
minimum_nights	0.149440
maximum_nights	-0.290148
minimum_minimum_nights	0.187891
maximum_minimum_nights	0.226268
minimum_maximum_nights	-0.067593
maximum_maximum_nights	-0.089120
minimum_nights_avg_ntm	0.204980
maximum_nights_avg_ntm	-0.088116
availability_30	-0.333037
availability_60	-0.310881
availability_90	-0.273490
availability_365	-0.123340
number_of_reviews	0.508278
number_of_reviews_ltm	0.478863
number_of_reviews_l30d	0.379750
availability_eoy	-0.113251
number_of_reviews_ly	0.427678
estimated_occupancy_l365d	0.512405
estimated_revenue_l365d	0.529391
calculated_host_listings_count	0.094452
calculated_host_listings_count_entire_homes	-0.059374
calculated_host_listings_count_private_rooms	0.062798
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.660471

	review_scores_checkin \
id	-0.547861
scrape_id	NaN
host_id	-0.243035
latitude	0.224442
longitude	0.046195
host_response_rate	-0.081741
host_acceptance_rate	0.065605
review_scores_rating	0.998200
review_scores_accuracy	0.980277
review_scores_cleanliness	0.996980
review_scores_checkin	1.000000
review_scores_communication	0.997760
review_scores_location	0.994828
review_scores_value	0.995723
bathrooms	0.063867
host_listings_count	0.053973
host_total_listings_count	0.050123
accommodates	0.119302

bedrooms	0.127381
beds	0.009619
price	-0.150357
minimum_nights	0.159364
maximum_nights	-0.294403
minimum_minimum_nights	0.186861
maximum_minimum_nights	0.230490
minimum_maximum_nights	-0.069892
maximum_maximum_nights	-0.091470
minimum_nights_avg_ntm	0.211089
maximum_nights_avg_ntm	-0.090466
availability_30	-0.327365
availability_60	-0.305090
availability_90	-0.266929
availability_365	-0.117416
number_of_reviews	0.506336
number_of_reviews_ltm	0.483855
number_of_reviews_l30d	0.376173
availability_eoy	-0.106375
number_of_reviews_ly	0.427586
estimated_occupancy_l365d	0.517368
estimated_revenue_l365d	0.533447
calculated_host_listings_count	0.095137
calculated_host_listings_count_entire_homes	-0.061398
calculated_host_listings_count_private_rooms	0.069099
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.656803

	review_scores_communication \
id	-0.538377
scrape_id	NaN
host_id	-0.257729
latitude	0.225225
longitude	0.045692
host_response_rate	-0.083837
host_acceptance_rate	0.046122
review_scores_rating	0.996344
review_scores_accuracy	0.980946
review_scores_cleanliness	0.995316
review_scores_checkin	0.997760
review_scores_communication	1.000000
review_scores_location	0.995454
review_scores_value	0.998098
bathrooms	0.083825
host_listings_count	0.042208
host_total_listings_count	0.041605
accommodates	0.138382
bedrooms	0.127531

beds	0.004068
price	-0.161645
minimum_nights	0.155337
maximum_nights	-0.288111
minimum_minimum_nights	0.179665
maximum_minimum_nights	0.226203
minimum_maximum_nights	-0.063890
maximum_maximum_nights	-0.085466
minimum_nights_avg_ntm	0.206776
maximum_nights_avg_ntm	-0.084458
availability_30	-0.334084
availability_60	-0.312749
availability_90	-0.275743
availability_365	-0.123297
number_of_reviews	0.496057
number_of_reviews_ltm	0.483952
number_of_reviews_l30d	0.377382
availability_eoy	-0.113538
number_of_reviews_ly	0.430647
estimated_occupancy_l365d	0.516713
estimated_revenue_l365d	0.529503
calculated_host_listings_count	0.080738
calculated_host_listings_count_entire_homes	-0.058398
calculated_host_listings_count_private_rooms	0.070585
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.657782

	review_scores_location \
id	-0.558973
scrape_id	NaN
host_id	-0.248560
latitude	0.234066
longitude	0.034026
host_response_rate	-0.100471
host_acceptance_rate	0.064683
review_scores_rating	0.995338
review_scores_accuracy	0.976871
review_scores_cleanliness	0.992465
review_scores_checkin	0.994828
review_scores_communication	0.995454
review_scores_location	1.000000
review_scores_value	0.994334
bathrooms	0.091711
host_listings_count	0.064704
host_total_listings_count	0.070556
accommodates	0.099003
bedrooms	0.126875
beds	-0.013473

price	-0.134060
minimum_nights	0.166219
maximum_nights	-0.298478
minimum_minimum_nights	0.187497
maximum_minimum_nights	0.242246
minimum_maximum_nights	-0.059299
maximum_maximum_nights	-0.080743
minimum_nights_avg_ntm	0.221476
maximum_nights_avg_ntm	-0.079738
availability_30	-0.355839
availability_60	-0.334336
availability_90	-0.296882
availability_365	-0.150336
number_of_reviews	0.499826
number_of_reviews_ltm	0.465001
number_of_reviews_l30d	0.353597
availability_eoy	-0.138118
number_of_reviews_ly	0.397702
estimated_occupancy_l365d	0.505695
estimated_revenue_l365d	0.545318
calculated_host_listings_count	0.106327
calculated_host_listings_count_entire_homes	-0.087880
calculated_host_listings_count_private_rooms	0.050141
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.623376

	review_scores_value	bathrooms	\
id	-0.522333	-0.256564	
scrape_id	NaN	NaN	
host_id	-0.267641	-0.186525	
latitude	0.228892	0.145310	
longitude	0.048390	0.031393	
host_response_rate	-0.072731	0.058327	
host_acceptance_rate	0.042321	-0.167359	
review_scores_rating	0.994991	0.069937	
review_scores_accuracy	0.978305	0.089661	
review_scores_cleanliness	0.993683	0.070220	
review_scores_checkin	0.995723	0.063867	
review_scores_communication	0.998098	0.083825	
review_scores_location	0.994334	0.091711	
review_scores_value	1.000000	0.085607	
bathrooms	0.085607	1.000000	
host_listings_count	0.042022	-0.020400	
host_total_listings_count	0.039835	0.024573	
accommodates	0.132548	0.020592	
bedrooms	0.127315	0.022320	
beds	-0.008489	-0.040625	
price	-0.168730	0.035496	

minimum_nights	0.165659	-0.012056
maximum_nights	-0.286886	-0.056753
minimum_minimum_nights	0.185247	0.120316
maximum_minimum_nights	0.235963	0.167052
minimum_maximum_nights	-0.057757	-0.052890
maximum_maximum_nights	-0.079267	-0.056880
minimum_nights_avg_ntm	0.216935	0.097318
maximum_nights_avg_ntm	-0.078258	-0.056722
availability_30	-0.339011	-0.206620
availability_60	-0.316669	-0.242372
availability_90	-0.279251	-0.254635
availability_365	-0.120706	-0.190568
number_of_reviews	0.490951	0.259629
number_of_reviews_ltm	0.465910	0.164377
number_of_reviews_l30d	0.384201	-0.078386
availability_eoy	-0.113424	-0.204601
number_of_reviews_ly	0.413241	0.139774
estimated_occupancy_l365d	0.504354	0.153898
estimated_revenue_l365d	0.517668	0.300982
calculated_host_listings_count	0.076606	-0.024278
calculated_host_listings_count_entire_homes	-0.059095	-0.170195
calculated_host_listings_count_private_rooms	0.072106	-0.039058
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	0.653342	-0.017005

	host_listings_count	\
id	0.129189	
scrape_id	NaN	
host_id	-0.363804	
latitude	-0.152195	
longitude	-0.374411	
host_response_rate	-0.008043	
host_acceptance_rate	0.655375	
review_scores_rating	0.051785	
review_scores_accuracy	0.075567	
review_scores_cleanliness	0.060307	
review_scores_checkin	0.053973	
review_scores_communication	0.042208	
review_scores_location	0.064704	
review_scores_value	0.042022	
bathrooms	-0.020400	
host_listings_count	1.000000	
host_total_listings_count	0.891610	
accommodates	-0.253853	
bedrooms	0.066839	
beds	-0.386117	
price	0.035898	
minimum_nights	0.247315	

maximum_nights	-0.477415
minimum_minimum_nights	0.306540
maximum_minimum_nights	0.293706
minimum_maximum_nights	-0.428563
maximum_maximum_nights	-0.417459
minimum_nights_avg_ntm	0.283611
maximum_nights_avg_ntm	-0.418280
availability_30	-0.039209
availability_60	0.016019
availability_90	0.058690
availability_365	0.057694
number_of_reviews	-0.147468
number_of_reviews_ltm	-0.151737
number_of_reviews_l30d	0.233030
availability_eoy	0.049184
number_of_reviews_ly	-0.168013
estimated_occupancy_l365d	-0.177536
estimated_revenue_l365d	-0.106654
calculated_host_listings_count	0.943117
calculated_host_listings_count_entire_homes	-0.392147
calculated_host_listings_count_private_rooms	-0.428429
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.153466

	host_total_listings_count \
id	-0.011434
scrape_id	NaN
host_id	-0.366946
latitude	-0.109100
longitude	-0.277074
host_response_rate	-0.129612
host_acceptance_rate	0.609253
review_scores_rating	0.049985
review_scores_accuracy	0.079767
review_scores_cleanliness	0.060069
review_scores_checkin	0.050123
review_scores_communication	0.041605
review_scores_location	0.070556
review_scores_value	0.039835
bathrooms	0.024573
host_listings_count	0.891610
host_total_listings_count	1.000000
accommodates	-0.267093
bedrooms	-0.014878
beds	-0.444746
price	0.099844
minimum_nights	0.383463
maximum_nights	-0.377791

minimum_minimum_nights	0.323648
maximum_minimum_nights	0.404591
minimum_maximum_nights	-0.237669
maximum_maximum_nights	-0.230602
minimum_nights_avg_ntm	0.404875
maximum_nights_avg_ntm	-0.231100
availability_30	-0.119411
availability_60	-0.060684
availability_90	-0.034227
availability_365	-0.023414
number_of_reviews	-0.153883
number_of_reviews_ltm	-0.216374
number_of_reviews_l30d	0.147246
availability_eoy	-0.013965
number_of_reviews_ly	-0.227317
estimated_occupancy_l365d	-0.237512
estimated_revenue_l365d	-0.088814
calculated_host_listings_count	0.812612
calculated_host_listings_count_entire_homes	-0.441275
calculated_host_listings_count_private_rooms	-0.488729
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.059169

	accommodates	bedrooms	\
id	0.056061	-0.067508	
scrape_id	NaN	NaN	
host_id	-0.238576	0.209174	
latitude	-0.252325	0.132456	
longitude	-0.141471	-0.076351	
host_response_rate	0.140444	-0.035313	
host_acceptance_rate	-0.275913	-0.097584	
review_scores_rating	0.113928	0.127169	
review_scores_accuracy	0.118206	0.125322	
review_scores_cleanliness	0.122567	0.127139	
review_scores_checkin	0.119302	0.127381	
review_scores_communication	0.138382	0.127531	
review_scores_location	0.099003	0.126875	
review_scores_value	0.132548	0.127315	
bathrooms	0.020592	0.022320	
host_listings_count	-0.253853	0.066839	
host_total_listings_count	-0.267093	-0.014878	
accommodates	1.000000	0.055951	
bedrooms	0.055951	1.000000	
beds	0.276848	0.121685	
price	0.045000	0.011141	
minimum_nights	-0.216374	-0.175184	
maximum_nights	0.239158	-0.320552	
minimum_minimum_nights	-0.141931	0.034280	

maximum_minimum_nights	-0.248122	-0.159941
minimum_maximum_nights	0.229372	-0.242045
maximum_maximum_nights	0.221049	-0.240901
minimum_nights_avg_ntm	-0.242063	-0.167881
maximum_nights_avg_ntm	0.221602	-0.241114
availability_30	-0.033124	-0.098708
availability_60	-0.066150	-0.102006
availability_90	-0.080772	-0.099116
availability_365	-0.006437	-0.032664
number_of_reviews	0.040588	0.064274
number_of_reviews_ltm	0.212716	0.062640
number_of_reviews_l30d	-0.089704	0.047458
availability_eoy	-0.041081	-0.075501
number_of_reviews_ly	0.380127	0.056144
estimated_occupancy_l365d	0.188716	0.067138
estimated_revenue_l365d	-0.023092	0.067837
calculated_host_listings_count	-0.306223	0.074831
calculated_host_listings_count_entire_homes	0.353283	-0.131145
calculated_host_listings_count_private_rooms	0.184110	0.082764
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	0.202830	0.084285

	beds	price \
id	0.040985	-0.213833
scrape_id	NaN	NaN
host_id	0.196925	0.129367
latitude	0.075844	-0.011906
longitude	0.217937	-0.200632
host_response_rate	0.063364	-0.248271
host_acceptance_rate	-0.315297	0.289641
review_scores_rating	0.013165	-0.145524
review_scores_accuracy	-0.022827	-0.154803
review_scores_cleanliness	0.012968	-0.142960
review_scores_checkin	0.009619	-0.150357
review_scores_communication	0.004068	-0.161645
review_scores_location	-0.013473	-0.134060
review_scores_value	-0.008489	-0.168730
bathrooms	-0.040625	0.035496
host_listings_count	-0.386117	0.035898
host_total_listings_count	-0.444746	0.099844
accommodates	0.276848	0.045000
bedrooms	0.121685	0.011141
beds	1.000000	-0.204766
price	-0.204766	1.000000
minimum_nights	-0.520233	0.025889
maximum_nights	0.358076	-0.034260
minimum_minimum_nights	-0.281312	-0.094416
maximum_minimum_nights	-0.497498	0.102124



minimum_maximum_nights	0.145203	-0.006791
maximum_maximum_nights	0.157976	0.002653
minimum_nights_avg_ntm	-0.515554	0.078900
maximum_nights_avg_ntm	0.157450	0.002192
availability_30	0.141116	-0.196097
availability_60	0.114061	-0.193728
availability_90	0.109799	-0.199065
availability_365	0.098310	-0.308638
number_of_reviews	0.063667	0.103542
number_of_reviews_ltm	0.151991	-0.065475
number_of_reviews_l30d	-0.139417	-0.192979
availability_eoy	0.088930	-0.284583
number_of_reviews_ly	0.271479	-0.115018
estimated_occupancy_l365d	0.125272	-0.044732
estimated_revenue_l365d	-0.020695	0.168753
calculated_host_listings_count	-0.422936	0.047688
calculated_host_listings_count_entire_homes	0.627550	-0.307820
calculated_host_listings_count_private_rooms	0.761124	-0.374691
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	0.008308	-0.236441

	minimum_nights	maximum_nights	\
id	-0.029228	0.313562	
scrape_id	NaN	NaN	
host_id	-0.391136	0.131544	
latitude	0.122067	-0.023078	
longitude	0.032822	0.155690	
host_response_rate	-0.167227	-0.162825	
host_acceptance_rate	0.034835	-0.431588	
review_scores_rating	0.154117	-0.286696	
review_scores_accuracy	0.171782	-0.305242	
review_scores_cleanliness	0.149440	-0.290148	
review_scores_checkin	0.159364	-0.294403	
review_scores_communication	0.155337	-0.288111	
review_scores_location	0.166219	-0.298478	
review_scores_value	0.165659	-0.286886	
bathrooms	-0.012056	-0.056753	
host_listings_count	0.247315	-0.477415	
host_total_listings_count	0.383463	-0.377791	
accommodates	-0.216374	0.239158	
bedrooms	-0.175184	-0.320552	
beds	-0.520233	0.358076	
price	0.025889	-0.034260	
minimum_nights	1.000000	-0.171065	
maximum_nights	-0.171065	1.000000	
minimum_minimum_nights	0.547256	-0.300755	
maximum_minimum_nights	0.919263	-0.267015	
minimum_maximum_nights	0.001601	0.525760	

maximum_maximum_nights	-0.009580	0.541056
minimum_nights_avg_ntm	0.962615	-0.239999
maximum_nights_avg_ntm	-0.009026	0.540654
availability_30	-0.231622	0.142310
availability_60	-0.173765	0.117173
availability_90	-0.148652	0.092804
availability_365	0.036164	0.238343
number_of_reviews	-0.020040	-0.232607
number_of_reviews_ltm	-0.229038	-0.176869
number_of_reviews_l30d	0.159503	-0.273048
availability_eoy	0.029562	0.230179
number_of_reviews_ly	-0.253660	-0.000437
estimated_occupancy_l365d	-0.211651	-0.116588
estimated_revenue_l365d	-0.051179	-0.363116
calculated_host_listings_count	0.180928	-0.566464
calculated_host_listings_count_entire_homes	-0.294597	0.489928
calculated_host_listings_count_private_rooms	-0.417250	0.218074
calculated_host_listings_count_shared_rooms	NaN	NaN
reviews_per_month	0.096299	-0.264987

	minimum_minimum_nights \
id	-0.008900
scrape_id	NaN
host_id	-0.422451
latitude	0.122393
longitude	0.044118
host_response_rate	0.089579
host_acceptance_rate	0.040711
review_scores_rating	0.194455
review_scores_accuracy	0.193654
review_scores_cleanliness	0.187891
review_scores_checkin	0.186861
review_scores_communication	0.179665
review_scores_location	0.187497
review_scores_value	0.185247
bathrooms	0.120316
host_listings_count	0.306540
host_total_listings_count	0.323648
accommodates	-0.141931
bedrooms	0.034280
beds	-0.281312
price	-0.094416
minimum_nights	0.547256
maximum_nights	-0.300755
minimum_minimum_nights	1.000000
maximum_minimum_nights	0.505163
minimum_maximum_nights	-0.228196
maximum_maximum_nights	-0.234793

minimum_nights_avg_ntm	0.528232
maximum_nights_avg_ntm	-0.234612
availability_30	-0.085562
availability_60	-0.051204
availability_90	-0.021976
availability_365	0.105297
number_of_reviews	0.036855
number_of_reviews_ltm	-0.107969
number_of_reviews_l30d	0.080257
availability_eoy	0.084845
number_of_reviews_ly	-0.137245
estimated_occupancy_l365d	-0.119960
estimated_revenue_l365d	-0.055416
calculated_host_listings_count	0.267786
calculated_host_listings_count_entire_homes	-0.162377
calculated_host_listings_count_private_rooms	-0.234941
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.153359

	maximum_minimum_nights \
id	-0.196103
scrape_id	NaN
host_id	-0.390505
latitude	0.164062
longitude	0.033451
host_response_rate	-0.137071
host_acceptance_rate	0.097872
review_scores_rating	0.228714
review_scores_accuracy	0.245311
review_scores_cleanliness	0.226268
review_scores_checkin	0.230490
review_scores_communication	0.226203
review_scores_location	0.242246
review_scores_value	0.235963
bathrooms	0.167052
host_listings_count	0.293706
host_total_listings_count	0.404591
accommodates	-0.248122
bedrooms	-0.159941
beds	-0.497498
price	0.102124
minimum_nights	0.919263
maximum_nights	-0.267015
minimum_minimum_nights	0.505163
maximum_minimum_nights	1.000000
minimum_maximum_nights	-0.083530
maximum_maximum_nights	-0.096313
minimum_nights_avg_ntm	0.991243

maximum_nights_avg_ntm	-0.095737
availability_30	-0.297579
availability_60	-0.233958
availability_90	-0.206189
availability_365	-0.021833
number_of_reviews	0.149028
number_of_reviews_ltm	-0.153198
number_of_reviews_l30d	0.176218
availability_eoy	-0.031057
number_of_reviews_ly	-0.187715
estimated_occupancy_l365d	-0.140795
estimated_revenue_l365d	0.132980
calculated_host_listings_count	0.234443
calculated_host_listings_count_entire_homes	-0.356525
calculated_host_listings_count_private_rooms	-0.337500
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.105747

	minimum_maximum_nights \
id	0.019005
scrape_id	NaN
host_id	0.022845
latitude	-0.034079
longitude	0.170091
host_response_rate	0.034655
host_acceptance_rate	-0.379336
review_scores_rating	-0.072865
review_scores_accuracy	-0.077320
review_scores_cleanliness	-0.067593
review_scores_checkin	-0.069892
review_scores_communication	-0.063890
review_scores_location	-0.059299
review_scores_value	-0.057757
bathrooms	-0.052890
host_listings_count	-0.428563
host_total_listings_count	-0.237669
accommodates	0.229372
bedrooms	-0.242045
beds	0.145203
price	-0.006791
minimum_nights	0.001601
maximum_nights	0.525760
minimum_minimum_nights	-0.228196
maximum_minimum_nights	-0.083530
minimum_maximum_nights	1.000000
maximum_maximum_nights	0.986083
minimum_nights_avg_ntm	-0.056796
maximum_nights_avg_ntm	0.987410

availability_30	-0.182582
availability_60	-0.191847
availability_90	-0.208294
availability_365	-0.086208
number_of_reviews	-0.144509
number_of_reviews_ltm	-0.146704
number_of_reviews_l30d	-0.210002
availability_eoy	-0.106529
number_of_reviews_ly	-0.010165
estimated_occupancy_l365d	-0.100597
estimated_revenue_l365d	-0.065379
calculated_host_listings_count	-0.570916
calculated_host_listings_count_entire_homes	0.339745
calculated_host_listings_count_private_rooms	0.169917
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.193611

	maximum_maximum_nights \
id	0.033046
scrape_id	NaN
host_id	0.026783
latitude	-0.021531
longitude	0.158641
host_response_rate	0.040741
host_acceptance_rate	-0.363882
review_scores_rating	-0.094420
review_scores_accuracy	-0.098588
review_scores_cleanliness	-0.089120
review_scores_checkin	-0.091470
review_scores_communication	-0.085466
review_scores_location	-0.080743
review_scores_value	-0.079267
bathrooms	-0.056880
host_listings_count	-0.417459
host_total_listings_count	-0.230602
accommodates	0.221049
bedrooms	-0.240901
beds	0.157976
price	0.002653
minimum_nights	-0.009580
maximum_nights	0.541056
minimum_minimum_nights	-0.234793
maximum_minimum_nights	-0.096313
minimum_maximum_nights	0.986083
maximum_maximum_nights	1.000000
minimum_nights_avg_ntm	-0.069277
maximum_nights_avg_ntm	0.999967
availability_30	-0.167012

availability_60	-0.175750
availability_90	-0.192748
availability_365	-0.070316
number_of_reviews	-0.155762
number_of_reviews_ltm	-0.157891
number_of_reviews_l30d	-0.218940
availability_eoy	-0.091854
number_of_reviews_ly	-0.019627
estimated_occupancy_l365d	-0.112325
estimated_revenue_l365d	-0.076960
calculated_host_listings_count	-0.559297
calculated_host_listings_count_entire_homes	0.363328
calculated_host_listings_count_private_rooms	0.166708
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.208601

	minimum_nights_avg_ntm \
id	-0.144282
scrape_id	NaN
host_id	-0.397754
latitude	0.153089
longitude	0.033846
host_response_rate	-0.149545
host_acceptance_rate	0.078725
review_scores_rating	0.208131
review_scores_accuracy	0.225369
review_scores_cleanliness	0.204980
review_scores_checkin	0.211089
review_scores_communication	0.206776
review_scores_location	0.221476
review_scores_value	0.216935
bathrooms	0.097318
host_listings_count	0.283611
host_total_listings_count	0.404875
accommodates	-0.242063
bedrooms	-0.167881
beds	-0.515554
price	0.078900
minimum_nights	0.962615
maximum_nights	-0.239999
minimum_minimum_nights	0.528232
maximum_minimum_nights	0.991243
minimum_maximum_nights	-0.056796
maximum_maximum_nights	-0.069277
minimum_nights_avg_ntm	1.000000
maximum_nights_avg_ntm	-0.068699
availability_30	-0.279942
availability_60	-0.216654

availability_90	-0.189078
availability_365	-0.000917
number_of_reviews	0.092428
number_of_reviews_ltm	-0.185028
number_of_reviews_l30d	0.175740
availability_eoy	-0.009440
number_of_reviews_ly	-0.216386
estimated_occupancy_l365d	-0.170704
estimated_revenue_l365d	0.070220
calculated_host_listings_count	0.220917
calculated_host_listings_count_entire_homes	-0.342409
calculated_host_listings_count_private_rooms	-0.370038
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.103472

	maximum_nights_avg_ntm \
id	0.032371
scrape_id	NaN
host_id	0.026601
latitude	-0.022162
longitude	0.159310
host_response_rate	0.040469
host_acceptance_rate	-0.364881
review_scores_rating	-0.093419
review_scores_accuracy	-0.097603
review_scores_cleanliness	-0.088116
review_scores_checkin	-0.090466
review_scores_communication	-0.084458
review_scores_location	-0.079738
review_scores_value	-0.078258
bathrooms	-0.056722
host_listings_count	-0.418280
host_total_listings_count	-0.231100
accommodates	0.221602
bedrooms	-0.241114
beds	0.157450
price	0.002192
minimum_nights	-0.009026
maximum_nights	0.540654
minimum_minimum_nights	-0.234612
maximum_minimum_nights	-0.095737
minimum_maximum_nights	0.987410
maximum_maximum_nights	0.999967
minimum_nights_avg_ntm	-0.068699
maximum_nights_avg_ntm	1.000000
availability_30	-0.167892
availability_60	-0.176660
availability_90	-0.193643

availability_365	-0.071148
number_of_reviews	-0.155301
number_of_reviews_ltm	-0.157445
number_of_reviews_l30d	-0.218644
availability_eoy	-0.092640
number_of_reviews_ly	-0.019175
estimated_occupancy_l365d	-0.111822
estimated_revenue_l365d	-0.076437
calculated_host_listings_count	-0.560236
calculated_host_listings_count_entire_homes	0.362408
calculated_host_listings_count_private_rooms	0.166973
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.207999

	availability_30 \
id	0.332574
scrape_id	NaN
host_id	0.357640
latitude	0.104126
longitude	0.353778
host_response_rate	0.064471
host_acceptance_rate	-0.060389
review_scores_rating	-0.328428
review_scores_accuracy	-0.309560
review_scores_cleanliness	-0.333037
review_scores_checkin	-0.327365
review_scores_communication	-0.334084
review_scores_location	-0.355839
review_scores_value	-0.339011
bathrooms	-0.206620
host_listings_count	-0.039209
host_total_listings_count	-0.119411
accommodates	-0.033124
bedrooms	-0.098708
beds	0.141116
price	-0.196097
minimum_nights	-0.231622
maximum_nights	0.142310
minimum_minimum_nights	-0.085562
maximum_minimum_nights	-0.297579
minimum_maximum_nights	-0.182582
maximum_maximum_nights	-0.167012
minimum_nights_avg_ntm	-0.279942
maximum_nights_avg_ntm	-0.167892
availability_30	1.000000
availability_60	0.977505
availability_90	0.957238
availability_365	0.783761



number_of_reviews	-0.339992
number_of_reviews_ltm	-0.125313
number_of_reviews_l30d	-0.058403
availability_eoy	0.817392
number_of_reviews_ly	-0.144712
estimated_occupancy_l365d	-0.231451
estimated_revenue_l365d	-0.388260
calculated_host_listings_count	0.017055
calculated_host_listings_count_entire_homes	0.155349
calculated_host_listings_count_private_rooms	0.180941
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.180699

	availability_60	\
id	0.349684	
scrape_id	NaN	
host_id	0.345353	
latitude	0.144400	
longitude	0.385030	
host_response_rate	0.052447	
host_acceptance_rate	-0.030915	
review_scores_rating	-0.307195	
review_scores_accuracy	-0.283207	
review_scores_cleanliness	-0.310881	
review_scores_checkin	-0.305090	
review_scores_communication	-0.312749	
review_scores_location	-0.334336	
review_scores_value	-0.316669	
bathrooms	-0.242372	
host_listings_count	0.016019	
host_total_listings_count	-0.060684	
accommodates	-0.066150	
bedrooms	-0.102006	
beds	0.114061	
price	-0.193728	
minimum_nights	-0.173765	
maximum_nights	0.117173	
minimum_minimum_nights	-0.051204	
maximum_minimum_nights	-0.233958	
minimum_maximum_nights	-0.191847	
maximum_maximum_nights	-0.175750	
minimum_nights_avg_ntm	-0.216654	
maximum_nights_avg_ntm	-0.176660	
availability_30	0.977505	
availability_60	1.000000	
availability_90	0.993727	
availability_365	0.817812	
number_of_reviews	-0.350309	

number_of_reviews_ltm	-0.169172
number_of_reviews_l30d	-0.029648
availability_eoy	0.854395
number_of_reviews_ly	-0.176818
estimated_occupancy_l365d	-0.269340
estimated_revenue_l365d	-0.416308
calculated_host_listings_count	0.046837
calculated_host_listings_count_entire_homes	0.141992
calculated_host_listings_count_private_rooms	0.184330
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.156832

	availability_90 \
id	0.351458
scrape_id	NaN
host_id	0.320818
latitude	0.160536
longitude	0.390867
host_response_rate	0.045720
host_acceptance_rate	-0.010877
review_scores_rating	-0.269922
review_scores_accuracy	-0.243813
review_scores_cleanliness	-0.273490
review_scores_checkin	-0.266929
review_scores_communication	-0.275743
review_scores_location	-0.296882
review_scores_value	-0.279251
bathrooms	-0.254635
host_listings_count	0.058690
host_total_listings_count	-0.034227
accommodates	-0.080772
bedrooms	-0.099116
beds	0.109799
price	-0.199065
minimum_nights	-0.148652
maximum_nights	0.092804
minimum_minimum_nights	-0.021976
maximum_minimum_nights	-0.206189
minimum_maximum_nights	-0.208294
maximum_maximum_nights	-0.192748
minimum_nights_avg_ntm	-0.189078
maximum_nights_avg_ntm	-0.193643
availability_30	0.957238
availability_60	0.993727
availability_90	1.000000
availability_365	0.833095
number_of_reviews	-0.348074
number_of_reviews_ltm	-0.179184

number_of_reviews_l30d	-0.002307
availability_eoy	0.867980
number_of_reviews_ly	-0.185541
estimated_occupancy_l365d	-0.277304
estimated_revenue_l365d	-0.422867
calculated_host_listings_count	0.079065
calculated_host_listings_count_entire_homes	0.135307
calculated_host_listings_count_private_rooms	0.182781
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.126924

	availability_365 \
id	0.322842
scrape_id	NaN
host_id	0.054387
latitude	0.251904
longitude	0.387287
host_response_rate	0.020880
host_acceptance_rate	-0.111075
review_scores_rating	-0.120437
review_scores_accuracy	-0.091137
review_scores_cleanliness	-0.123340
review_scores_checkin	-0.117416
review_scores_communication	-0.123297
review_scores_location	-0.150336
review_scores_value	-0.120706
bathrooms	-0.190568
host_listings_count	0.057694
host_total_listings_count	-0.023414
accommodates	-0.006437
bedrooms	-0.032664
beds	0.098310
price	-0.308638
minimum_nights	0.036164
maximum_nights	0.238343
minimum_minimum_nights	0.105297
maximum_minimum_nights	-0.021833
minimum_maximum_nights	-0.086208
maximum_maximum_nights	-0.070316
minimum_nights_avg_ntm	-0.000917
maximum_nights_avg_ntm	-0.071148
availability_30	0.783761
availability_60	0.817812
availability_90	0.833095
availability_365	1.000000
number_of_reviews	-0.336913
number_of_reviews_ltm	-0.192030
number_of_reviews_l30d	0.129268

availability_eoy	0.991055
number_of_reviews_ly	-0.188535
estimated_occupancy_l365d	-0.263769
estimated_revenue_l365d	-0.436850
calculated_host_listings_count	0.031705
calculated_host_listings_count_entire_homes	0.226466
calculated_host_listings_count_private_rooms	0.193727
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.006548

	number_of_reviews \
id	-0.549310
scrape_id	NaN
host_id	-0.033337
latitude	0.030251
longitude	-0.084217
host_response_rate	0.119972
host_acceptance_rate	0.122498
review_scores_rating	0.502696
review_scores_accuracy	0.508854
review_scores_cleanliness	0.508278
review_scores_checkin	0.506336
review_scores_communication	0.496057
review_scores_location	0.499826
review_scores_value	0.490951
bathrooms	0.259629
host_listings_count	-0.147468
host_total_listings_count	-0.153883
accommodates	0.040588
bedrooms	0.064274
beds	0.063667
price	0.103542
minimum_nights	-0.020040
maximum_nights	-0.232607
minimum_minimum_nights	0.036855
maximum_minimum_nights	0.149028
minimum_maximum_nights	-0.144509
maximum_maximum_nights	-0.155762
minimum_nights_avg_ntm	0.092428
maximum_nights_avg_ntm	-0.155301
availability_30	-0.339992
availability_60	-0.350309
availability_90	-0.348074
availability_365	-0.336913
number_of_reviews	1.000000
number_of_reviews_ltm	0.591082
number_of_reviews_l30d	0.065656
availability_eoy	-0.333263

number_of_reviews_ly	0.609813
estimated_occupancy_1365d	0.725416
estimated_revenue_1365d	0.725947
calculated_host_listings_count	-0.049814
calculated_host_listings_count_entire_homes	-0.020444
calculated_host_listings_count_private_rooms	0.093579
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.415333

	number_of_reviews_ltm \
id	-0.353950
scrape_id	NaN
host_id	0.028503
latitude	-0.069988
longitude	-0.107627
host_response_rate	0.120533
host_acceptance_rate	0.076413
review_scores_rating	0.474985
review_scores_accuracy	0.483988
review_scores_cleanliness	0.478863
review_scores_checkin	0.483855
review_scores_communication	0.483952
review_scores_location	0.465001
review_scores_value	0.465910
bathrooms	0.164377
host_listings_count	-0.151737
host_total_listings_count	-0.216374
accommodates	0.212716
bedrooms	0.062640
beds	0.151991
price	-0.065475
minimum_nights	-0.229038
maximum_nights	-0.176869
minimum_minimum_nights	-0.107969
maximum_minimum_nights	-0.153198
minimum_maximum_nights	-0.146704
maximum_maximum_nights	-0.157891
minimum_nights_avg_ntm	-0.185028
maximum_nights_avg_ntm	-0.157445
availability_30	-0.125313
availability_60	-0.169172
availability_90	-0.179184
availability_365	-0.192030
number_of_reviews	0.591082
number_of_reviews_ltm	1.000000
number_of_reviews_130d	0.096759
availability_eoy	-0.175234
number_of_reviews_ly	0.811885

estimated_occupancy_1365d	0.919968
estimated_revenue_1365d	0.770098
calculated_host_listings_count	0.000953
calculated_host_listings_count_entire_homes	0.049074
calculated_host_listings_count_private_rooms	0.199551
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.620531

	number_of_reviews_130d \
id	0.089134
scrape_id	NaN
host_id	-0.345766
latitude	0.034759
longitude	0.040799
host_response_rate	0.124016
host_acceptance_rate	0.150131
review_scores_rating	0.356870
review_scores_accuracy	0.337448
review_scores_cleanliness	0.379750
review_scores_checkin	0.376173
review_scores_communication	0.377382
review_scores_location	0.353597
review_scores_value	0.384201
bathrooms	-0.078386
host_listings_count	0.233030
host_total_listings_count	0.147246
accommodates	-0.089704
bedrooms	0.047458
beds	-0.139417
price	-0.192979
minimum_nights	0.159503
maximum_nights	-0.273048
minimum_minimum_nights	0.080257
maximum_minimum_nights	0.176218
minimum_maximum_nights	-0.210002
maximum_maximum_nights	-0.218940
minimum_nights_avg_ntm	0.175740
maximum_nights_avg_ntm	-0.218644
availability_30	-0.058403
availability_60	-0.029648
availability_90	-0.002307
availability_365	0.129268
number_of_reviews	0.065656
number_of_reviews_ltm	0.096759
number_of_reviews_130d	1.000000
availability_eoy	0.108838
number_of_reviews_ly	0.126671
estimated_occupancy_1365d	0.077355

estimated_revenue_l365d	-0.022588
calculated_host_listings_count	0.187713
calculated_host_listings_count_entire_homes	-0.087727
calculated_host_listings_count_private_rooms	-0.055364
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.505267

	availability_eoy \
id	0.281058
scrape_id	NaN
host_id	0.105156
latitude	0.276269
longitude	0.414609
host_response_rate	-0.037663
host_acceptance_rate	-0.090291
review_scores_rating	-0.108940
review_scores_accuracy	-0.079784
review_scores_cleanliness	-0.113251
review_scores_checkin	-0.106375
review_scores_communication	-0.113538
review_scores_location	-0.138118
review_scores_value	-0.113424
bathrooms	-0.204601
host_listings_count	0.049184
host_total_listings_count	-0.013965
accommodates	-0.041081
bedrooms	-0.075501
beds	0.088930
price	-0.284583
minimum_nights	0.029562
maximum_nights	0.230179
minimum_minimum_nights	0.084845
maximum_minimum_nights	-0.031057
minimum_maximum_nights	-0.106529
maximum_maximum_nights	-0.091854
minimum_nights_avg_ntm	-0.009440
maximum_nights_avg_ntm	-0.092640
availability_30	0.817392
availability_60	0.854395
availability_90	0.867980
availability_365	0.991055
number_of_reviews	-0.333263
number_of_reviews_ltm	-0.175234
number_of_reviews_l30d	0.108838
availability_eoy	1.000000
number_of_reviews_ly	-0.186681
estimated_occupancy_l365d	-0.249207
estimated_revenue_l365d	-0.415381

calculated_host_listings_count	0.040764
calculated_host_listings_count_entire_homes	0.192053
calculated_host_listings_count_private_rooms	0.184114
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	-0.011998

	number_of_reviews_ly \
id	-0.188185
scrape_id	NaN
host_id	-0.050041
latitude	-0.210366
longitude	-0.155458
host_response_rate	0.112922
host_acceptance_rate	-0.026576
review_scores_rating	0.417042
review_scores_accuracy	0.426739
review_scores_cleanliness	0.427678
review_scores_checkin	0.427586
review_scores_communication	0.430647
review_scores_location	0.397702
review_scores_value	0.413241
bathrooms	0.139774
host_listings_count	-0.168013
host_total_listings_count	-0.227317
accommodates	0.380127
bedrooms	0.056144
beds	0.271479
price	-0.115018
minimum_nights	-0.253660
maximum_nights	-0.000437
minimum_minimum_nights	-0.137245
maximum_minimum_nights	-0.187715
minimum_maximum_nights	-0.010165
maximum_maximum_nights	-0.019627
minimum_nights_avg_ntm	-0.216386
maximum_nights_avg_ntm	-0.019175
availability_30	-0.144712
availability_60	-0.176818
availability_90	-0.185541
availability_365	-0.188535
number_of_reviews	0.609813
number_of_reviews_ltm	0.811885
number_of_reviews_l30d	0.126671
availability_eoy	-0.186681
number_of_reviews_ly	1.000000
estimated_occupancy_l365d	0.795740
estimated_revenue_l365d	0.507152
calculated_host_listings_count	-0.119169



calculated_host_listings_count_entire_homes	0.245053
calculated_host_listings_count_private_rooms	0.268747
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.634038
	estimated_occupancy_1365d \
id	-0.318864
scrape_id	NaN
host_id	0.064436
latitude	-0.040413
longitude	-0.128548
host_response_rate	0.008023
host_acceptance_rate	0.098851
review_scores_rating	0.509792
review_scores_accuracy	0.518533
review_scores_cleanliness	0.512405
review_scores_checkin	0.517368
review_scores_communication	0.516713
review_scores_location	0.505695
review_scores_value	0.504354
bathrooms	0.153898
host_listings_count	-0.177536
host_total_listings_count	-0.237512
accommodates	0.188716
bedrooms	0.067138
beds	0.125272
price	-0.044732
minimum_nights	-0.211651
maximum_nights	-0.116588
minimum_minimum_nights	-0.119960
maximum_minimum_nights	-0.140795
minimum_maximum_nights	-0.100597
maximum_maximum_nights	-0.112325
minimum_nights_avg_ntm	-0.170704
maximum_nights_avg_ntm	-0.111822
availability_30	-0.231451
availability_60	-0.269340
availability_90	-0.277304
availability_365	-0.263769
number_of_reviews	0.725416
number_of_reviews_ltm	0.919968
number_of_reviews_l30d	0.077355
availability_eoy	-0.249207
number_of_reviews_ly	0.795740
estimated_occupancy_1365d	1.000000
estimated_revenue_1365d	0.774454
calculated_host_listings_count	-0.049415
calculated_host_listings_count_entire_homes	0.008777

calculated_host_listings_count_private_rooms	0.178096
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	0.605197

	estimated_revenue_1365d \
id	-0.665034
scrape_id	NaN
host_id	0.035581
latitude	0.062250
longitude	-0.147355
host_response_rate	0.021653
host_acceptance_rate	0.187174
review_scores_rating	0.530360
review_scores_accuracy	0.537848
review_scores_cleanliness	0.529391
review_scores_checkin	0.533447
review_scores_communication	0.529503
review_scores_location	0.545318
review_scores_value	0.517668
bathrooms	0.300982
host_listings_count	-0.106654
host_total_listings_count	-0.088814
accommodates	-0.023092
bedrooms	0.067837
beds	-0.020695
price	0.168753
minimum_nights	-0.051179
maximum_nights	-0.363116
minimum_minimum_nights	-0.055416
maximum_minimum_nights	0.132980
minimum_maximum_nights	-0.065379
maximum_maximum_nights	-0.076960
minimum_nights_avg_ntm	0.070220
maximum_nights_avg_ntm	-0.076437
availability_30	-0.388260
availability_60	-0.416308
availability_90	-0.422867
availability_365	-0.436850
number_of_reviews	0.725947
number_of_reviews_ltm	0.770098
number_of_reviews_l30d	-0.022588
availability_eoy	-0.415381
number_of_reviews_ly	0.507152
estimated_occupancy_1365d	0.774454
estimated_revenue_1365d	1.000000
calculated_host_listings_count	0.038429
calculated_host_listings_count_entire_homes	-0.160406
calculated_host_listings_count_private_rooms	0.047940

calculated\_host\_listings\_count\_shared\_rooms  
reviews\_per\_month

NaN  
0.363027

	calculated_host_listings_count \
id	-0.011519
scrape_id	NaN
host_id	-0.246773
latitude	-0.151432
longitude	-0.413074
host_response_rate	-0.019600
host_acceptance_rate	0.731786
review_scores_rating	0.092545
review_scores_accuracy	0.115452
review_scores_cleanliness	0.094452
review_scores_checkin	0.095137
review_scores_communication	0.080738
review_scores_location	0.106327
review_scores_value	0.076606
bathrooms	-0.024278
host_listings_count	0.943117
host_total_listings_count	0.812612
accommodates	-0.306223
bedrooms	0.074831
beds	-0.422936
price	0.047688
minimum_nights	0.180928
maximum_nights	-0.566464
minimum_minimum_nights	0.267786
maximum_minimum_nights	0.234443
minimum_maximum_nights	-0.570916
maximum_maximum_nights	-0.559297
minimum_nights_avg_ntm	0.220917
maximum_nights_avg_ntm	-0.560236
availability_30	0.017055
availability_60	0.046837
availability_90	0.079065
availability_365	0.031705
number_of_reviews	-0.049814
number_of_reviews_ltm	0.000953
number_of_reviews_l30d	0.187713
availability_eoy	0.040764
number_of_reviews_ly	-0.119169
estimated_occupancy_l365d	-0.049415
estimated_revenue_l365d	0.038429
calculated_host_listings_count	1.000000
calculated_host_listings_count_entire_homes	-0.468705
calculated_host_listings_count_private_rooms	-0.448954
calculated_host_listings_count_shared_rooms	NaN

reviews\_per\_month

0.155869

```
    ↪calculated_host_listings_count_entire_homes \
id                                             ↪
    ↪0.172053
scrape_id                                     ↪
    ↪NaN
host_id                                       ↪
    ↪-0.095071
latitude                                     ↪
    ↪-0.080926
longitude                                     ↪
    ↪0.062959
host_response_rate                           ↪
    ↪0.269268
host_acceptance_rate                         ↪
    ↪-0.339098
review_scores_rating                         ↪
    ↪-0.061210
review_scores_accuracy                       ↪
    ↪-0.093213
review_scores_cleanliness                    ↪
    ↪-0.059374
review_scores_checkin                       ↪
    ↪-0.061398
review_scores_communication                  ↪
    ↪-0.058398
review_scores_location                       ↪
    ↪-0.087880
review_scores_value                          ↪
    ↪-0.059095
bathrooms                                   ↪
    ↪-0.170195
host_listings_count                          ↪
    ↪-0.392147
host_total_listings_count                    ↪
    ↪-0.441275
accommodates                                 ↪
    ↪0.353283
bedrooms                                    ↪
    ↪-0.131145
beds                                         ↪
    ↪0.627550
price                                         ↪
    ↪-0.307820
```

minimum_nights	↪-0.294597	⌋
maximum_nights	↪0.489928	⌋
minimum_minimum_nights	↪-0.162377	⌋
maximum_minimum_nights	↪-0.356525	⌋
minimum_maximum_nights	↪0.339745	⌋
maximum_maximum_nights	↪0.363328	⌋
minimum_nights_avg_ntm	↪-0.342409	⌋
maximum_nights_avg_ntm	↪0.362408	⌋
availability_30	↪0.155349	⌋
availability_60	↪0.141992	⌋
availability_90	↪0.135307	⌋
availability_365	↪0.226466	⌋
number_of_reviews	↪-0.020444	⌋
number_of_reviews_ltm	↪0.049074	⌋
number_of_reviews_l30d	↪-0.087727	⌋
availability_eoy	↪0.192053	⌋
number_of_reviews_ly	↪0.245053	⌋
estimated_occupancy_l365d	↪0.008777	⌋
estimated_revenue_l365d	↪-0.160406	⌋
calculated_host_listings_count	↪-0.468705	⌋
calculated_host_listings_count_entire_homes	↪1.000000	⌋
calculated_host_listings_count_private_rooms	↪0.598307	⌋
calculated_host_listings_count_shared_rooms	↪NaN	⌋

reviews_per_month		
↪0.021894		⌋
↪calculated_host_listings_count_private_rooms \		⌋
id		⌋
↪ 0.073850		
scrape_id		⌋
↪ NaN		
host_id		⌋
↪ 0.273813		
latitude		⌋
↪ 0.289319		
longitude		⌋
↪ 0.483105		
host_response_rate		⌋
↪ 0.226245		
host_acceptance_rate		⌋
↪-0.365765		
review_scores_rating		⌋
↪ 0.068580		
review_scores_accuracy		⌋
↪ 0.031992		
review_scores_cleanliness		⌋
↪ 0.062798		
review_scores_checkin		⌋
↪ 0.069099		
review_scores_communication		⌋
↪ 0.070585		
review_scores_location		⌋
↪ 0.050141		
review_scores_value		⌋
↪ 0.072106		
bathrooms		⌋
↪-0.039058		
host_listings_count		⌋
↪-0.428429		
host_total_listings_count		⌋
↪-0.488729		
accommodates		⌋
↪ 0.184110		
bedrooms		⌋
↪ 0.082764		
beds		⌋
↪ 0.761124		

price	↪ -0.374691	⌞
minimum_nights	↪ -0.417250	⌞
maximum_nights	↪ 0.218074	⌞
minimum_minimum_nights	↪ -0.234941	⌞
maximum_minimum_nights	↪ -0.337500	⌞
minimum_maximum_nights	↪ 0.169917	⌞
maximum_maximum_nights	↪ 0.166708	⌞
minimum_nights_avg_ntm	↪ -0.370038	⌞
maximum_nights_avg_ntm	↪ 0.166973	⌞
availability_30	↪ 0.180941	⌞
availability_60	↪ 0.184330	⌞
availability_90	↪ 0.182781	⌞
availability_365	↪ 0.193727	⌞
number_of_reviews	↪ 0.093579	⌞
number_of_reviews_ltm	↪ 0.199551	⌞
number_of_reviews_l30d	↪ -0.055364	⌞
availability_eoy	↪ 0.184114	⌞
number_of_reviews_ly	↪ 0.268747	⌞
estimated_occupancy_l365d	↪ 0.178096	⌞
estimated_revenue_l365d	↪ 0.047940	⌞
calculated_host_listings_count	↪ -0.448954	⌞
calculated_host_listings_count_entire_homes	↪ 0.598307	⌞
calculated_host_listings_count_private_rooms	↪ 1.000000	⌞

calculated_host_listings_count_shared_rooms	↳ NaN	⌋
reviews_per_month	↳ 0.075731	⌋
calculated_host_listings_count_shared_rooms	↳ \	⌋
id	↳ NaN	⌋
scrape_id	↳ NaN	⌋
host_id	↳ NaN	⌋
latitude	↳ NaN	⌋
longitude	↳ NaN	⌋
host_response_rate	↳ NaN	⌋
host_acceptance_rate	↳ NaN	⌋
review_scores_rating	↳ NaN	⌋
review_scores_accuracy	↳ NaN	⌋
review_scores_cleanliness	↳ NaN	⌋
review_scores_checkin	↳ NaN	⌋
review_scores_communication	↳ NaN	⌋
review_scores_location	↳ NaN	⌋
review_scores_value	↳ NaN	⌋
bathrooms	↳ NaN	⌋
host_listings_count	↳ NaN	⌋
host_total_listings_count	↳ NaN	⌋
accommodates	↳ NaN	⌋
bedrooms	↳ NaN	⌋



beds		␣
↪	NaN	
price		␣
↪	NaN	
minimum_nights		␣
↪	NaN	
maximum_nights		␣
↪	NaN	
minimum_minimum_nights		␣
↪	NaN	
maximum_minimum_nights		␣
↪	NaN	
minimum_maximum_nights		␣
↪	NaN	
maximum_maximum_nights		␣
↪	NaN	
minimum_nights_avg_ntm		␣
↪	NaN	
maximum_nights_avg_ntm		␣
↪	NaN	
availability_30		␣
↪	NaN	
availability_60		␣
↪	NaN	
availability_90		␣
↪	NaN	
availability_365		␣
↪	NaN	
number_of_reviews		␣
↪	NaN	
number_of_reviews_ltm		␣
↪	NaN	
number_of_reviews_l30d		␣
↪	NaN	
availability_eoy		␣
↪	NaN	
number_of_reviews_ly		␣
↪	NaN	
estimated_occupancy_l365d		␣
↪	NaN	
estimated_revenue_l365d		␣
↪	NaN	
calculated_host_listings_count		␣
↪	NaN	
calculated_host_listings_count_entire_homes		␣
↪	NaN	

calculated_host_listings_count_private_rooms		
↪ NaN		␣
calculated_host_listings_count_shared_rooms		
↪ NaN		␣
reviews_per_month		
↪ NaN		␣

	reviews_per_month
id	-0.030540
scrape_id	NaN
host_id	-0.354285
latitude	-0.065398
longitude	-0.068047
host_response_rate	0.185801
host_acceptance_rate	0.152620
review_scores_rating	0.645699
review_scores_accuracy	0.646262
review_scores_cleanliness	0.660471
review_scores_checkin	0.656803
review_scores_communication	0.657782
review_scores_location	0.623376
review_scores_value	0.653342
bathrooms	-0.017005
host_listings_count	0.153466
host_total_listings_count	0.059169
accommodates	0.202830
bedrooms	0.084285
beds	0.008308
price	-0.236441
minimum_nights	0.096299
maximum_nights	-0.264987
minimum_minimum_nights	0.153359
maximum_minimum_nights	0.105747
minimum_maximum_nights	-0.193611
maximum_maximum_nights	-0.208601
minimum_nights_avg_ntm	0.103472
maximum_nights_avg_ntm	-0.207999
availability_30	-0.180699
availability_60	-0.156832
availability_90	-0.126924
availability_365	0.006548
number_of_reviews	0.415333
number_of_reviews_ltm	0.620531
number_of_reviews_l30d	0.505267
availability_eoy	-0.011998
number_of_reviews_ly	0.634038
estimated_occupancy_l365d	0.605197

estimated_revenue_l365d	0.363027
calculated_host_listings_count	0.155869
calculated_host_listings_count_entire_homes	0.021894
calculated_host_listings_count_private_rooms	0.075731
calculated_host_listings_count_shared_rooms	NaN
reviews_per_month	1.000000

-90% DE CORRELACIÓN PARA NO CAUSAR OVERFITTING DENTRO DE LOS MODELOS A REALIZAR, Y QUE EL MODELO SEA UN POCO MÁS GENERAL AL CRECER LA MUESTRA

```
[ ]: def get_top_correlated_pairs(correlation_matrix, n=10, exclude_above=0.90):
    """
    Extracts the top N most correlated pairs from a correlation matrix,
    excluding self-correlations and pairs above a certain absolute correlation.
    """
    unstacked = correlation_matrix.unstack()
    sorted_unstacked = unstacked.sort_values(kind="quicksort", ascending=False)

    # Filter out correlations above the exclusion threshold
    filtered_sorted_unstacked = sorted_unstacked[abs(sorted_unstacked) <=
    ↪exclude_above]

    # Drop self-correlations and duplicate pairs
    unique_pairs = filtered_sorted_unstacked[filtered_sorted_unstacked.index.
    ↪get_level_values(0) != filtered_sorted_unstacked.index.get_level_values(1)]
    unique_pairs = unique_pairs.drop_duplicates()

    # Get the top N pairs
    top_pairs = unique_pairs.head(n)

    return top_pairs

# Get top 10 correlated pairs for each room type
top_10_entire_home = get_top_correlated_pairs(correlation_matrix_entire_home)
top_10_hotel_room = get_top_correlated_pairs(correlation_matrix_hotel_room)
top_10_private_room = get_top_correlated_pairs(correlation_matrix_private_room)
top_10_shared_room = get_top_correlated_pairs(correlation_matrix_shared_room)

# Display the top 10 correlated pairs for each room type
print("Top 10 Correlated Pairs for 'Entire home/apt':")
display(top_10_entire_home)

print("\n" + "="*50 + "\n") # Separator

print("Top 10 Correlated Pairs for 'Hotel room':")
display(top_10_hotel_room)
```

```

print("\n" + "="*50 + "\n") # Separator

print("Top 10 Correlated Pairs for 'Private room':")
display(top_10_private_room)

print("\n" + "="*50 + "\n") # Separator

print("Top 10 Correlated Pairs for 'Shared room':")
display(top_10_shared_room)

```

Top 10 Correlated Pairs for 'Entire home/apt':

maximum_maximum_nights	minimum_maximum_nights	0.899365
availability_30	availability_90	0.866685
number_of_reviews_ltm	estimated_occupancy_l365d	0.820108
estimated_occupancy_l365d	number_of_reviews_ly	0.798371
host_total_listings_count	host_listings_count	0.789796
minimum_nights	minimum_nights_avg_ntm	0.774326
reviews_per_month	estimated_occupancy_l365d	0.754902
availability_90	availability_eoy	0.747794
number_of_reviews_ltm	reviews_per_month	0.743015
calculated_host_listings_count	host_listings_count	0.735923

dtype: float64

=====

Top 10 Correlated Pairs for 'Hotel room':

availability_eoy	availability_90	0.850000
host_total_listings_count	host_listings_count	0.848044
availability_90	availability_365	0.821530
number_of_reviews_ltm	estimated_occupancy_l365d	0.815049
estimated_occupancy_l365d	number_of_reviews_ly	0.809364
availability_60	availability_eoy	0.797260
maximum_maximum_nights	minimum_maximum_nights	0.794450
availability_365	availability_60	0.778326
estimated_revenue_l365d	estimated_occupancy_l365d	0.768374
availability_30	availability_eoy	0.727724

dtype: float64

=====

Top 10 Correlated Pairs for 'Private room':

host_listings_count	host_total_listings_count	0.844148
estimated_revenue_l365d	estimated_occupancy_l365d	0.831366
minimum_nights	minimum_nights_avg_ntm	0.819671
availability_90	availability_eoy	0.802076

estimated_occupancy_1365d	number_of_reviews_ltm	0.775584
availability_60	availability_eoy	0.766294
estimated_occupancy_1365d	number_of_reviews_ly	0.760667
availability_90	availability_365	0.749517
calculated_host_listings_count	host_listings_count	0.745405
reviews_per_month	estimated_occupancy_1365d	0.733891

dtype: float64

=====

Top 10 Correlated Pairs for 'Shared room':

host_total_listings_count	host_listings_count	0.891610
availability_90	availability_eoy	0.867980
availability_eoy	availability_60	0.854395
availability_365	availability_90	0.833095
availability_60	availability_365	0.817812
availability_30	availability_eoy	0.817392
calculated_host_listings_count	host_total_listings_count	0.812612
number_of_reviews_ly	number_of_reviews_ltm	0.811885
estimated_occupancy_1365d	number_of_reviews_ly	0.795740
availability_30	availability_365	0.783761

dtype: float64

```
[ ]: import seaborn as sns
import matplotlib.pyplot as plt
import numpy as np # Import numpy for select_dtypes

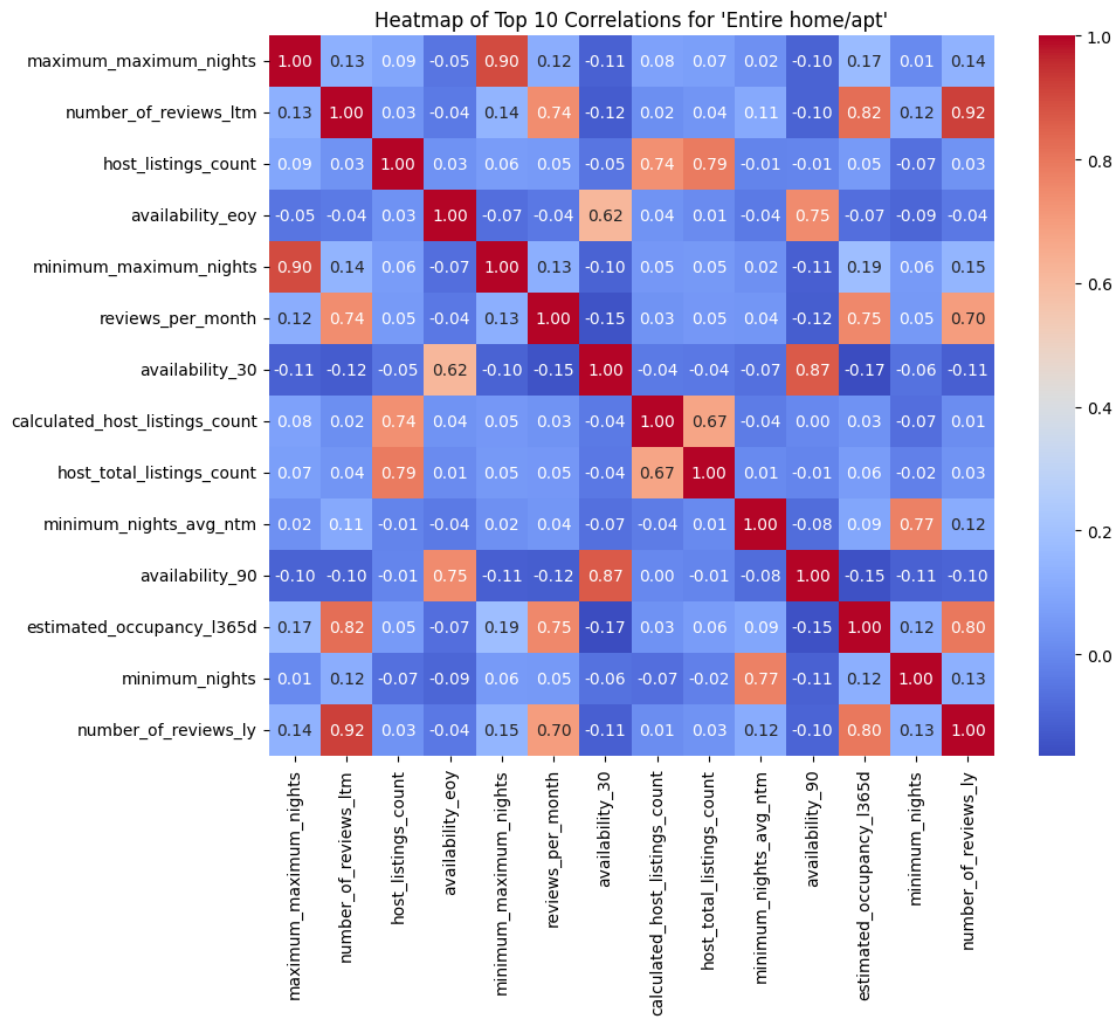
def plot_top_correlation_heatmap(dataframe, top_pairs, title):
    # Extract the variable names from the top pairs
    variables = []
    for index in top_pairs.index:
        variables.extend(list(index))
    variables = list(set(variables)) # Get unique variable names

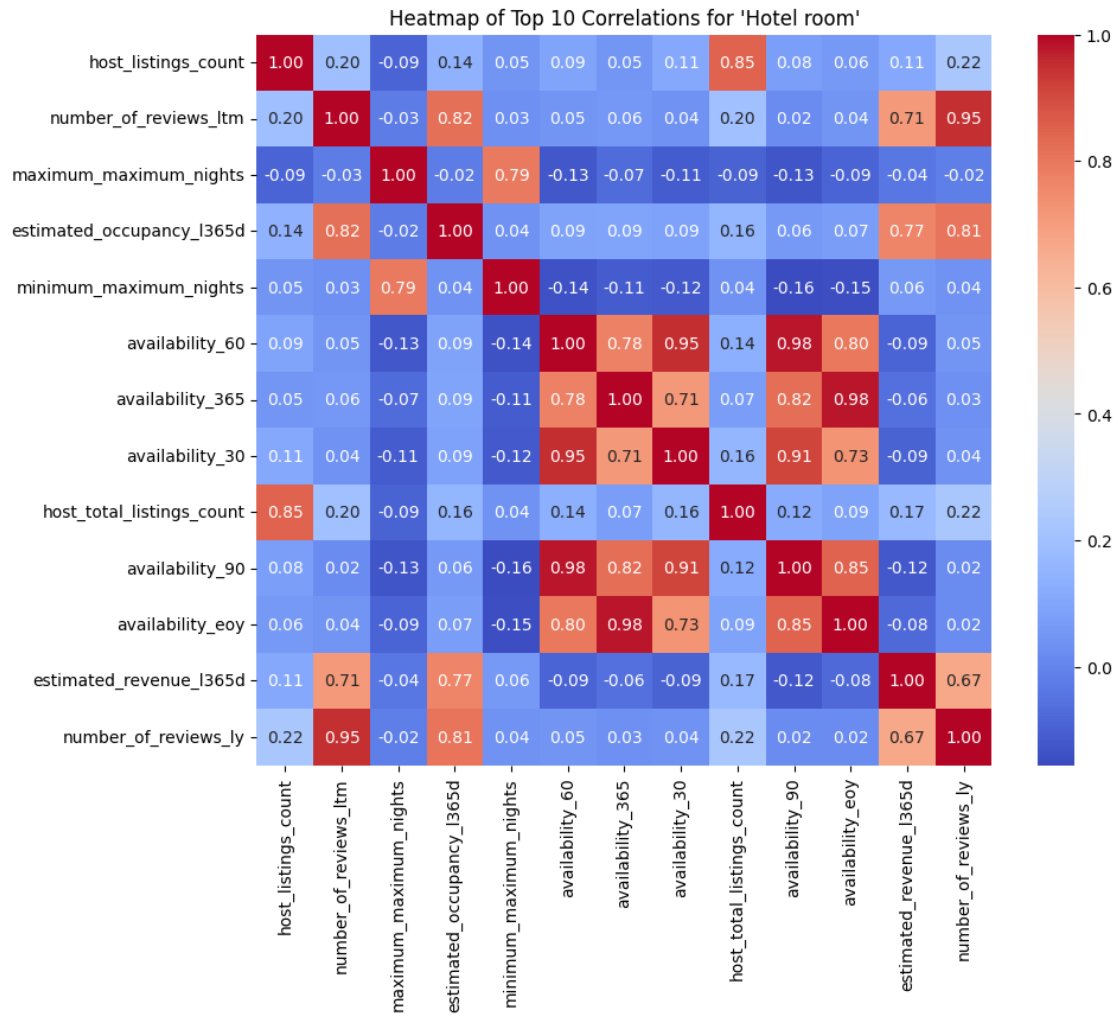
    # Create a subset of the dataframe with only the relevant variables
    subset_df = dataframe[variables]

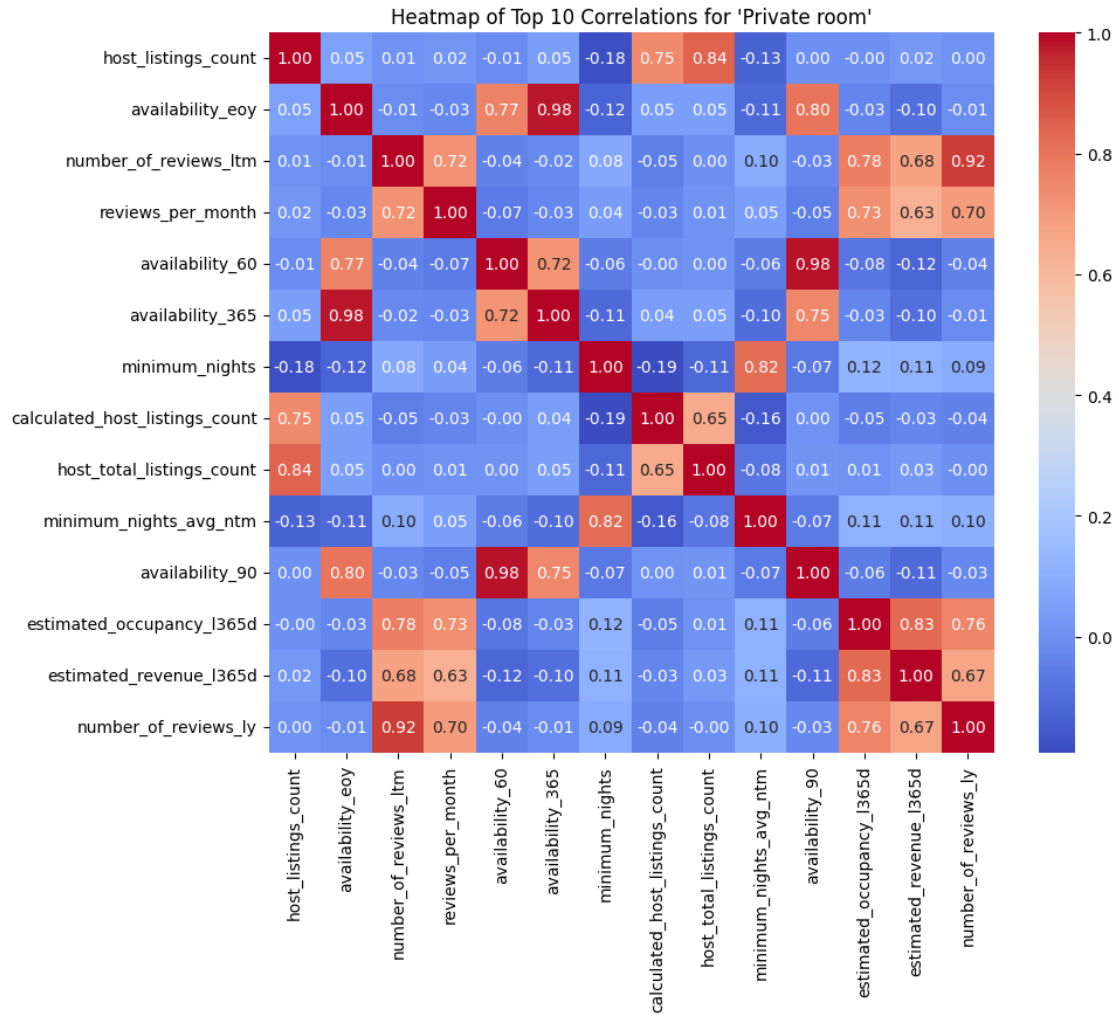
    # Calculate the correlation matrix for the subset
    correlation_matrix_subset = subset_df.corr()

    # Generate the heatmap
    plt.figure(figsize=(10, 8))
    sns.heatmap(correlation_matrix_subset, annot=True, cmap='coolwarm', fmt=".
↪2f")
    plt.title(title)
    plt.show()
```

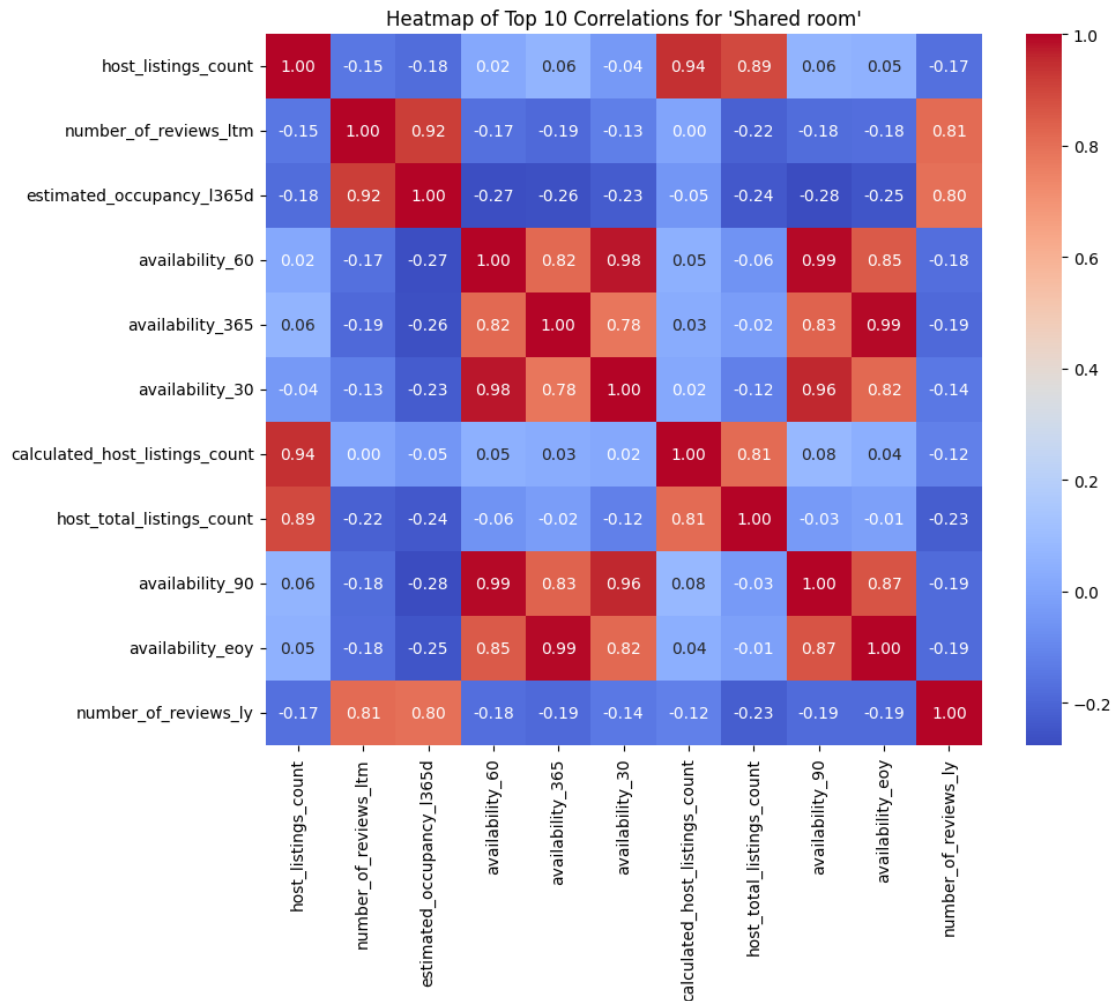
```
# Generate heatmaps for each room type
plot_top_correlation_heatmap(df_entire_home_apt.select_dtypes(include=np.
    ↳number), top_10_entire_home, "Heatmap of Top 10 Correlations for 'Entire_
    ↳home/apt'")
plot_top_correlation_heatmap(df_hotel_room.select_dtypes(include=np.number),
    ↳top_10_hotel_room, "Heatmap of Top 10 Correlations for 'Hotel room'")
plot_top_correlation_heatmap(df_private_room.select_dtypes(include=np.number),
    ↳top_10_private_room, "Heatmap of Top 10 Correlations for 'Private room'")
plot_top_correlation_heatmap(df_shared_room.select_dtypes(include=np.number),
    ↳top_10_shared_room, "Heatmap of Top 10 Correlations for 'Shared room'")
```











## REGRESIÓN LINEAL MÚLTIPLE (Punto 6)

Heatmap de correlación entre variables

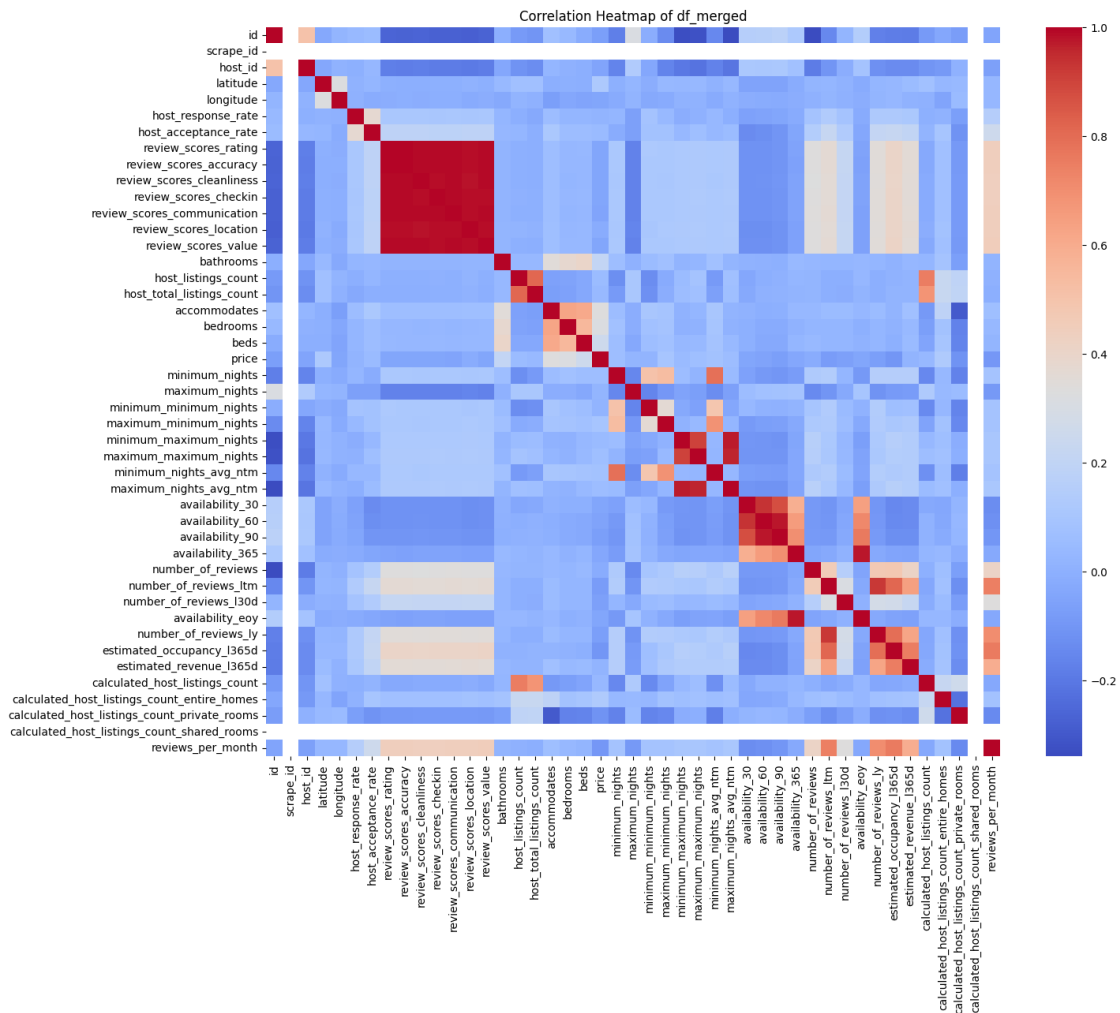
```
[ ]: import seaborn as sns
import matplotlib.pyplot as plt

# Select only numeric columns for the correlation matrix
numeric_df_merged = df_merged.select_dtypes(include=np.number)

# Calculate the correlation matrix
correlation_matrix_merged = numeric_df_merged.corr()

# Generate the heatmap
plt.figure(figsize=(15, 12))
sns.heatmap(correlation_matrix_merged, annot=False, cmap='coolwarm')
plt.title('Correlation Heatmap of df_merged')
```

```
plt.show()
```



De nuevo mantener ese mantener los coeficientes por debajo del 90%, para prevenir overfitting (sobreajuste del modelo)

```
[ ]: # List of dependent variables
dependent_variables = [
    'review_scores_rating',
    'host_acceptance_rate',
    'host_is_superhost',
    'host_total_listings_count',
    'accommodates',
    'bedrooms',
    'price',
    'review_scores_value',
    'bathrooms',
```

```

        'reviews_per_month'
    ]

    # Select only numeric columns from the merged dataframe
    numeric_df_merged = df_merged.select_dtypes(include=np.number)

    # Calculate the correlation matrix for the numeric columns
    correlation_matrix_merged = numeric_df_merged.corr()

    # Create a dictionary to store the top correlations for each dependent variable
    top_correlations = {}

    # Iterate through the dependent variables
    for dependent_var in dependent_variables:
        if dependent_var in correlation_matrix_merged.columns:
            # Get the correlations for the dependent variable, excluding
            ↪self-correlation
            correlations = correlation_matrix_merged[dependent_var].
            ↪drop(dependent_var)

            # Filter out correlations greater than 95% (absolute value)
            filtered_correlations = correlations[abs(correlations) <= 0.90]

            # Sort the correlations by absolute value in descending order
            sorted_correlations = filtered_correlations.abs().
            ↪sort_values(ascending=False)

            # Get the top 5 correlations
            top_5_correlations = sorted_correlations.head(5)

            # Store the results
            top_correlations[dependent_var] = top_5_correlations
        else:
            print(f"Warning: '{dependent_var}' is not a numeric column in the
            ↪dataframe.")

    # Display the top 5 correlations for each dependent variable in a table format
    print("Top 5 Highest Correlations for Specified Dependent Variables (excluding
    ↪95% correlation):")
    for dependent_var, correlations in top_correlations.items():
        print(f"\nDependent Variable: {dependent_var}")
        display(correlations.to_frame(name='Correlation Coefficient'))

```

Warning: 'host\_is\_superhost' is not a numeric column in the dataframe.  
 Top 5 Highest Correlations for Specified Dependent Variables (excluding > 95% correlation):

Dependent Variable: review\_scores\_rating

	Correlation Coefficient
reviews_per_month	0.302181
estimated_occupancy_1365d	0.289169
number_of_reviews	0.284067
number_of_reviews_ltm	0.255208
number_of_reviews_ly	0.253835

Dependent Variable: host\_acceptance\_rate

	Correlation Coefficient
host_response_rate	0.443380
reviews_per_month	0.293131
estimated_occupancy_1365d	0.292394
number_of_reviews_ltm	0.282944
number_of_reviews_ly	0.282215

Dependent Variable: host\_total\_listings\_count

	Correlation Coefficient
host_listings_count	0.780962
calculated_host_listings_count	0.672534
calculated_host_listings_count_private_rooms	0.271481
calculated_host_listings_count_entire_homes	0.226727
minimum_minimum_nights	0.160752

Dependent Variable: accommodates

	Correlation Coefficient
beds	0.647981
bedrooms	0.638298
price	0.391392
bathrooms	0.345371
calculated_host_listings_count_private_rooms	0.284553

Dependent Variable: bedrooms

	Correlation Coefficient
accommodates	0.638298
beds	0.538665
price	0.343821
bathrooms	0.306877
calculated_host_listings_count_private_rooms	0.172526

Dependent Variable: price

	Correlation Coefficient
accommodates	0.391392
bedrooms	0.343821
beds	0.268747
bathrooms	0.190435
calculated_host_listings_count_private_rooms	0.164076

Dependent Variable: review\_scores\_value

	Correlation Coefficient
reviews_per_month	0.308389
number_of_reviews	0.292308
estimated_occupancy_1365d	0.290696
number_of_reviews_ltm	0.256883
number_of_reviews_ly	0.255713

Dependent Variable: bathrooms

	Correlation Coefficient
beds	0.363285
accommodates	0.345371
bedrooms	0.306877
price	0.190435
calculated_host_listings_count_entire_homes	0.114183

Dependent Variable: reviews\_per\_month

	Correlation Coefficient
number_of_reviews	0.792767
number_of_reviews_ly	0.763841
number_of_reviews_ltm	0.761748
estimated_occupancy_1365d	0.739135
estimated_revenue_1365d	0.556823

## REGRESIONES MÚLTIPLES

1. Seleccionar variables dependientes e independientes

```
[ ]: selected_independent_variables = {}

for dependent_var in dependent_variables:
    if dependent_var in top_correlations:
        sorted_correlations = top_correlations[dependent_var]
        selected_independent_variables[dependent_var] = []

        current_selected = []
        for indep_var, correlation_value in sorted_correlations.items():
            is_multicollinear = False
```

```

        for selected in current_selected:
            # Check for multicollinearity (e.g., correlation > 0.8)
            if abs(correlation_matrix_merged.loc[indep_var, selected]) > 0.
↪8:
                is_multicollinear = True
                break

        if not is_multicollinear and len(current_selected) < 3:
            current_selected.append(indep_var)

        if len(current_selected) == 3:
            break

    selected_independent_variables[dependent_var] = current_selected

# Print the selected independent variables for verification
print("Selected Independent Variables for Regression Models:")
for dependent_var, indep_vars in selected_independent_variables.items():
    print(f"{dependent_var}: {indep_vars}")

```

```

Selected Independent Variables for Regression Models:
review_scores_rating: ['reviews_per_month', 'estimated_occupancy_l365d',
'number_of_reviews']
host_acceptance_rate: ['host_response_rate', 'reviews_per_month',
'estimated_occupancy_l365d']
host_total_listings_count: ['host_listings_count',
'calculated_host_listings_count',
'calculated_host_listings_count_private_rooms']
accommodates: ['beds', 'bedrooms', 'price']
bedrooms: ['accommodates', 'beds', 'price']
price: ['accommodates', 'bedrooms', 'beds']
review_scores_value: ['reviews_per_month', 'number_of_reviews',
'estimated_occupancy_l365d']
bathrooms: ['beds', 'accommodates', 'bedrooms']
reviews_per_month: ['number_of_reviews', 'number_of_reviews_ly',
'estimated_revenue_l365d']

```

```

[ ]: import statsmodels.api as sm

fitted_models = {}

for dependent_var, independent_vars in selected_independent_variables.items():
    if independent_vars: # Only build a model if there are independent
↪variables selected
        y = df_merged[dependent_var]
        X = df_merged[independent_vars]

```

```

X = sm.add_constant(X) # Add a constant (intercept) to the independent_
↳variables

model = sm.OLS(y, X)
fitted_model = model.fit()
fitted_models[dependent_var] = fitted_model

# You can optionally print summaries of the fitted models to verify
# for dependent_var, model in fitted_models.items():
#     print(f"\nRegression Model Summary for Dependent Variable:
↳{dependent_var}")
#     print(model.summary())

```

## 2. Regresiones por variable Independiente (Coeficiente de determinación R2)

```

[42]: regression_results = []

for dependent_var, model in fitted_models.items():
    r_squared = model.rsquared

    # Construct the regression formula string
    formula = f"{dependent_var} = {model.params['const']:.4f}"
    for indep_var, coef in model.params.drop('const').items():
        formula += f" + {coef:.4f} * {indep_var}"

    regression_results.append({
        'Dependent Variable': dependent_var,
        'Independent Variables': selected_independent_variables[dependent_var],
        'Regression Formula': formula,
        'R-squared': r_squared
    })

# Display the results in a table
display(pd.DataFrame(regression_results))

```

```

Dependent Variable \
0    review_scores_rating
1    host_acceptance_rate
2    host_total_listings_count
3            accommodates
4            bedrooms
5            price
6    review_scores_value
7            bathrooms
8    reviews_per_month

```

Independent Variables \

```

0 [reviews_per_month, estimated_occupancy_l365d,...
1 [host_response_rate, reviews_per_month, estima...
2 [host_listings_count, calculated_host_listings...
3 [beds, bedrooms, price]
4 [accommodates, beds, price]
5 [accommodates, bedrooms, beds]
6 [reviews_per_month, number_of_reviews, estimat...
7 [beds, accommodates, bedrooms]
8 [number_of_reviews, number_of_reviews_ly, esti...

Regression Formula R-squared
0 review_scores_rating = 3.9926 + 0.1473 * revie... 0.103713
1 host_acceptance_rate = 20.8460 + 0.6581 * host... 0.251825
2 host_total_listings_count = 0.8968 + 0.7011 * ... 0.623924
3 accommodates = 0.3652 + 0.6120 * beds + 0.9211... 0.559002
4 bedrooms = 0.3035 + 0.1810 * accommodates + 0... 0.444111
5 price = 75.7490 + 9.7496 * accommodates + 13.4... 0.168138
6 review_scores_value = 3.9365 + 0.1507 * review... 0.107381
7 bathrooms = 0.6189 + 0.1412 * beds + 0.0604 * ... 0.158437
8 reviews_per_month = 0.1854 + 0.0055 * number_o... 0.727935

```

### 3. Tabla de regresiones

```
[48]: display(pd.DataFrame(regression_results))
```

```

Dependent Variable \
0 review_scores_rating
1 host_acceptance_rate
2 host_total_listings_count
3 accommodates
4 bedrooms
5 price
6 review_scores_value
7 bathrooms
8 reviews_per_month

Independent Variables \
0 [reviews_per_month, estimated_occupancy_l365d,...
1 [host_response_rate, reviews_per_month, estima...
2 [host_listings_count, calculated_host_listings...
3 [beds, bedrooms, price]
4 [accommodates, beds, price]
5 [accommodates, bedrooms, beds]
6 [reviews_per_month, number_of_reviews, estimat...
7 [beds, accommodates, bedrooms]
8 [number_of_reviews, number_of_reviews_ly, esti...

Regression Formula R-squared

```



```

0 review_scores_rating = 3.9926 + 0.1473 * review... 0.103713
1 host_acceptance_rate = 20.8460 + 0.6581 * host... 0.251825
2 host_total_listings_count = 0.8968 + 0.7011 * ... 0.623924
3 accommodates = 0.3652 + 0.6120 * beds + 0.9211... 0.559002
4 bedrooms = 0.3035 + 0.1810 * accommodates + 0... 0.444111
5 price = 75.7490 + 9.7496 * accommodates + 13.4... 0.168138
6 review_scores_value = 3.9365 + 0.1507 * review... 0.107381
7 bathrooms = 0.6189 + 0.1412 * beds + 0.0604 * ... 0.158437
8 reviews_per_month = 0.1854 + 0.0055 * number_o... 0.727935

```

Ahora los resultados de cada regresión múltiple con coeficiente de Pearson

```

[46]: from scipy.stats import pearsonr

correlation_results_r = []

for dependent_var, model in fitted_models.items():
    # Get the actual values
    y_true = df_merged[dependent_var]
    # Get the predicted values
    y_pred = model.predict(sm.
    ↪add_constant(df_merged[selected_independent_variables[dependent_var]]))

    # Calculate the Pearson correlation coefficient and p-value
    correlation_r, p_value = pearsonr(y_true, y_pred)

    # Construct the regression formula string
    formula = f"{dependent_var} = {model.params['const']:.4f}"
    for indep_var, coef in model.params.drop('const').items():
        formula += f" + {coef:.4f} * {indep_var}"

    correlation_results_r.append({
        'Dependent Variable': dependent_var,
        'Independent Variables': selected_independent_variables[dependent_var],
        'Regression Formula': formula,
        'Pearson R': correlation_r
    })

# Display the results in a table
display(pd.DataFrame(correlation_results_r))

```

```

Dependent Variable \
0 review_scores_rating
1 host_acceptance_rate
2 host_total_listings_count
3 accommodates
4 bedrooms
5 price

```

```

6         review_scores_value
7             bathrooms
8         reviews_per_month

```

```

                                Independent Variables \
0 [reviews_per_month, estimated_occupancy_1365d,...
1 [host_response_rate, reviews_per_month, estima...
2 [host_listings_count, calculated_host_listings...
3             [beds, bedrooms, price]
4             [accommodates, beds, price]
5             [accommodates, bedrooms, beds]
6 [reviews_per_month, number_of_reviews, estimat...
7             [beds, accommodates, bedrooms]
8 [number_of_reviews, number_of_reviews_ly, esti...

```

	Regression Formula	Pearson R
0	review_scores_rating = 3.9926 + 0.1473 * review...	0.322045
1	host_acceptance_rate = 20.8460 + 0.6581 * host...	0.501821
2	host_total_listings_count = 0.8968 + 0.7011 * ...	0.789889
3	accommodates = 0.3652 + 0.6120 * beds + 0.9211...	0.747665
4	bedrooms = 0.3035 + 0.1810 * accommodates + 0...	0.666417
5	price = 75.7490 + 9.7496 * accommodates + 13.4...	0.410046
6	review_scores_value = 3.9365 + 0.1507 * review...	0.327690
7	bathrooms = 0.6189 + 0.1412 * beds + 0.0604 * ...	0.398042
8	reviews_per_month = 0.1854 + 0.0055 * number_o...	0.853191

host\_is\_superhost (T = 1, F = 0)

```

[50]: df_merged['host_is_superhost_num'] = df_merged['host_is_superhost'].map({'t':
      ↪1, 'f':0})

```

```

[66]: # Select only numeric columns from the merged dataframe, including the new
      ↪numerical column
numeric_df_merged_with_superhost = df_merged.select_dtypes(include=np.number)

# Calculate the correlation matrix
correlation_matrix_with_superhost = numeric_df_merged_with_superhost.corr()

# Get correlations with 'host_is_superhost_num', excluding self-correlation
superhost_correlations =
      ↪correlation_matrix_with_superhost['host_is_superhost_num'].
      ↪drop('host_is_superhost_num')

# Filter out correlations greater than 90% (absolute value)
filtered_superhost_correlations =
      ↪superhost_correlations[abs(superhost_correlations) <= 0.90]

# Sort by absolute value in descending order and get the top 5

```

```

top_5_superhost_correlations = filtered_superhost_correlations.abs().
    ↪sort_values(ascending=False).head(5)

# Display the results in a table
print("Top 5 Correlations with 'host_is_superhost' (excluding > 90%_
    ↪correlation):")
display(top_5_superhost_correlations.to_frame(name='Correlation Coefficient'))

```

Top 5 Correlations with 'host\_is\_superhost' (excluding > 90% correlation):

	Correlation Coefficient
estimated_occupancy_1365d	0.436627
number_of_reviews_ltm	0.417618
number_of_reviews_ly	0.414111
reviews_per_month	0.375934
estimated_revenue_1365d	0.356980

```

[67]: #Declaramos las variables dependientes e independientes para la regresión lineal
Vars_Indep= df_merged[['estimated_occupancy_1365d', 'number_of_reviews_ltm']]
Var_Dep= df_merged['host_is_superhost_num']

# Combine independent and dependent variables into a single DataFrame to easily_
    ↪drop rows with NaNs
combined_df = pd.concat([Vars_Indep, Var_Dep], axis=1)

# Drop rows with any missing values from the combined DataFrame
combined_df_cleaned = combined_df.dropna()

# Split the cleaned DataFrame back into independent and dependent variables
Vars_Indep = combined_df_cleaned[['estimated_occupancy_1365d',
    ↪'number_of_reviews_ltm']]
Var_Dep = combined_df_cleaned['host_is_superhost_num']

```

```

[68]: #Se define model como la función de regresión lineal
from sklearn.linear_model import LinearRegression
model= LinearRegression()

```

```

[69]: #Ajustamos el modelo con las variables antes declaradas
model.fit(X=Vars_Indep, y=Var_Dep)

```

```

[69]: LinearRegression()

```

```

[70]: #Verificamos los coeficientes obtenidos para el modelo ajustado
model.__dict__

```

```

[70]: {'fit_intercept': True,
      'copy_X': True,

```

```

'n_jobs': None,
'positive': False,
'feature_names_in_': array(['estimated_occupancy_1365d',
'number_of_reviews_ltm'], dtype=object),
'n_features_in_': 2,
'coef_': array([0.00151866, 0.00406694]),
'rank_': 2,
'singular_': array([10053.17679204, 867.45618522]),
'intercept_': np.float64(0.2212388136866048)}

```

Modelo    host\_is\_superhost:        y    =    0.00173109x1    +    0.00456481x2    +  
0.17182180202671762

```

[71]: from scipy.stats import pearsonr

#Evaluamos la eficiencia del modelo obtenido por medio del coeficiente Ru
↳Determinación
print(f"R-squared: {model.score(Vars_Indep, Var_Dep):.4f}")

# Calculate the predicted values
y_pred = model.predict(Vars_Indep)

# Calculate the Pearson correlation coefficient
correlation_r, p_value = pearsonr(Var_Dep, y_pred)

print(f"Pearson R: {correlation_r:.4f}")

```

R-squared: 0.1959  
Pearson R: 0.4426

```

[57]: # Save the df_merged DataFrame to a CSV file
df_merged.to_csv('df_merged.csv', index=False)
print("df_merged.csv has been created.")

```

df\_merged.csv has been created.