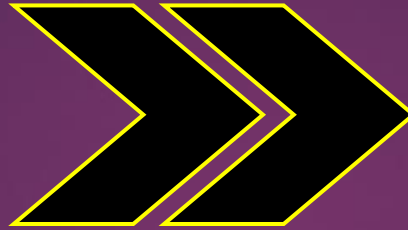


WELCOME

SQL PROJECT

HOST BEHAVIOR ANALYSIS FOR
PROPERTY RENTAL COMPANY



PRESENTED BY-

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- ❑ ABHIRAJ S

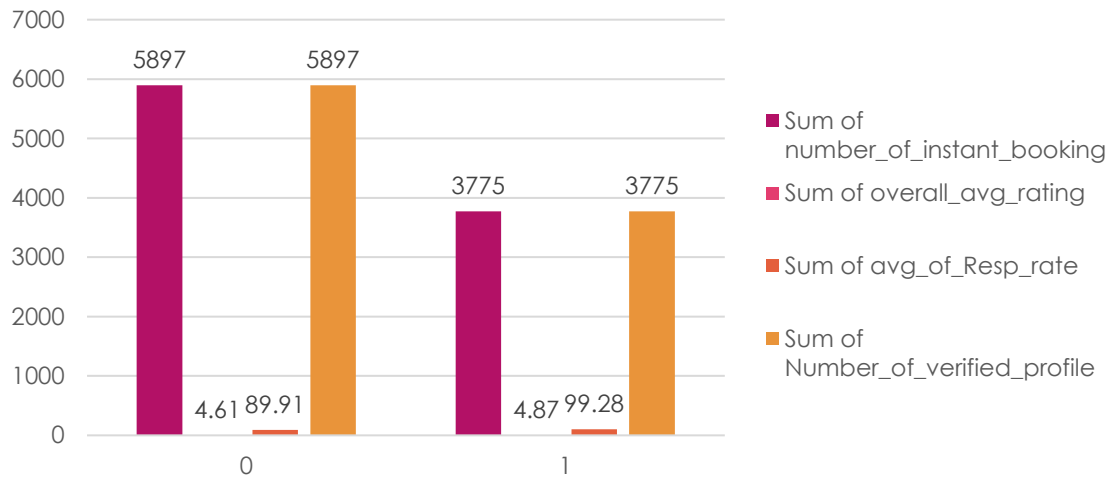
STUDENT CODE- (PD14_096)

STUDENT CODE-(PD14_053)

A) Analyze different metrics to draw the distinction between Super Host and Other Hosts:

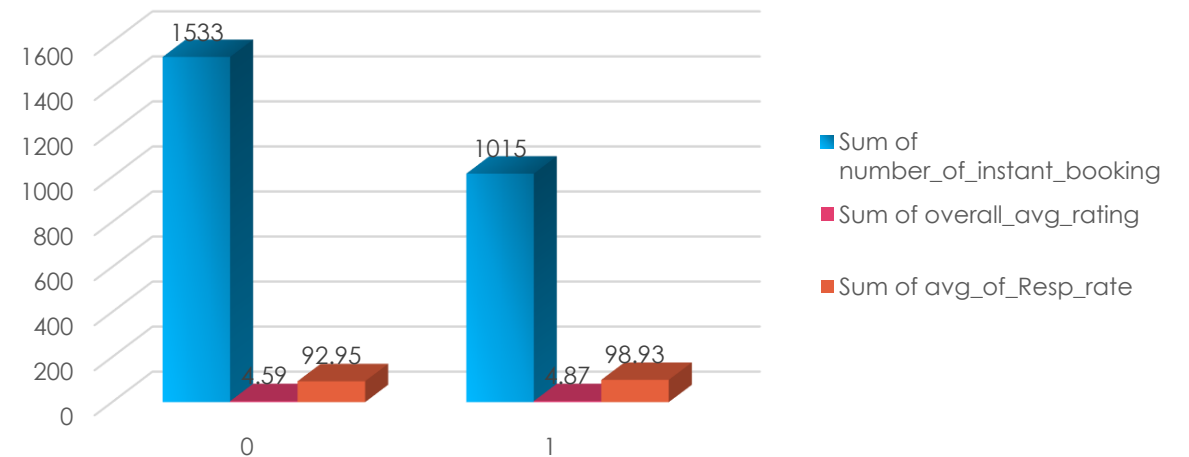
host_is_superhost	number_of_instant_bookings	overall_avg_rating	avg_of_Response_rate	Number_of_verified_profile
0	5897	4.61	89.91	5897
1	3775	4.87	99.28	3775

Athens



host_is_superhost	number_of_instant_bookings	overall_avg_rating	avg_of_Response_rate	Number_of_verified_profile
0	1533	4.59	92.95	1533
1	1015	4.87	98.93	1015

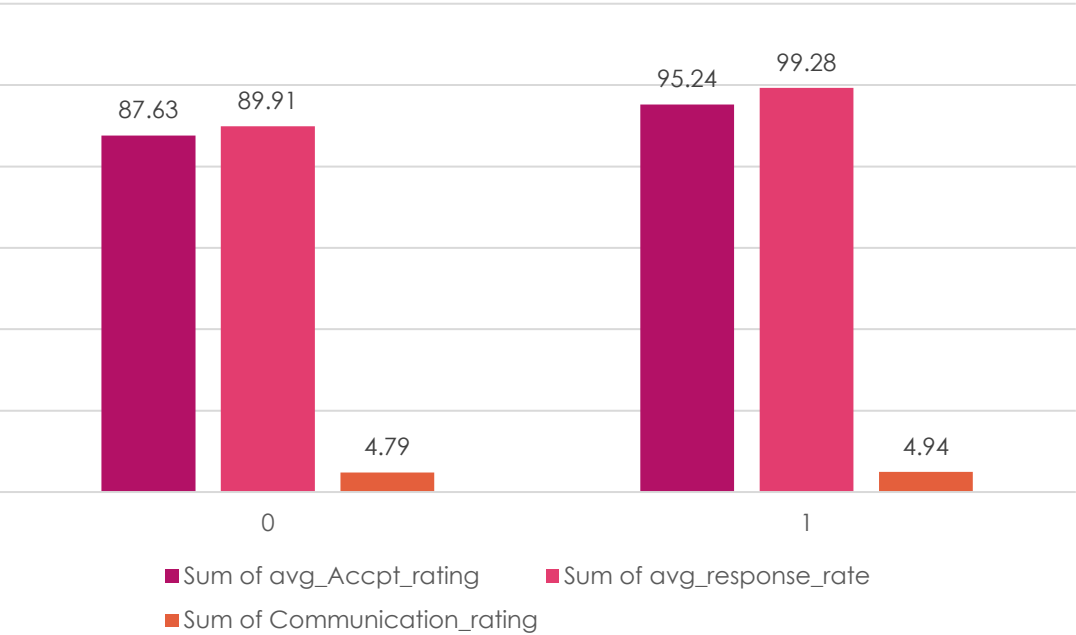
Thessaloniki



B. Using the above analysis, identify top 3 crucial metrics one needs to maintain to become a Super Host and also, find their average values.

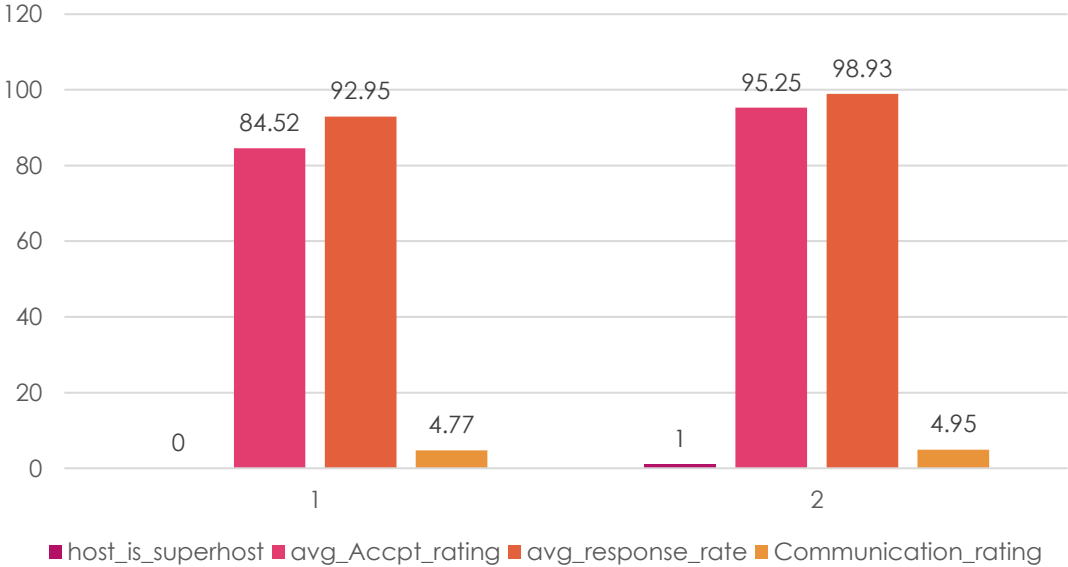
host_is_superhost	avg_Accept_rating	avg_response_rate	Communication_rating
0	87.63	89.91	4.79
1	95.24	99.28	4.94

Athens



host_is_superhost	avg_Accept_rating	avg_response_rate	Communication_rating
0	84.52	92.95	4.77
1	95.25	98.93	4.95

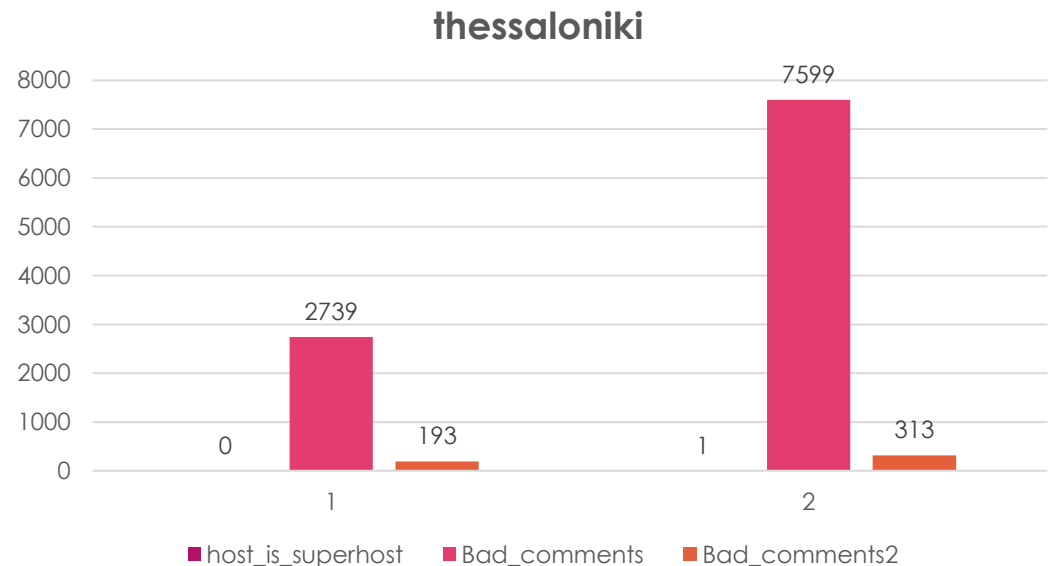
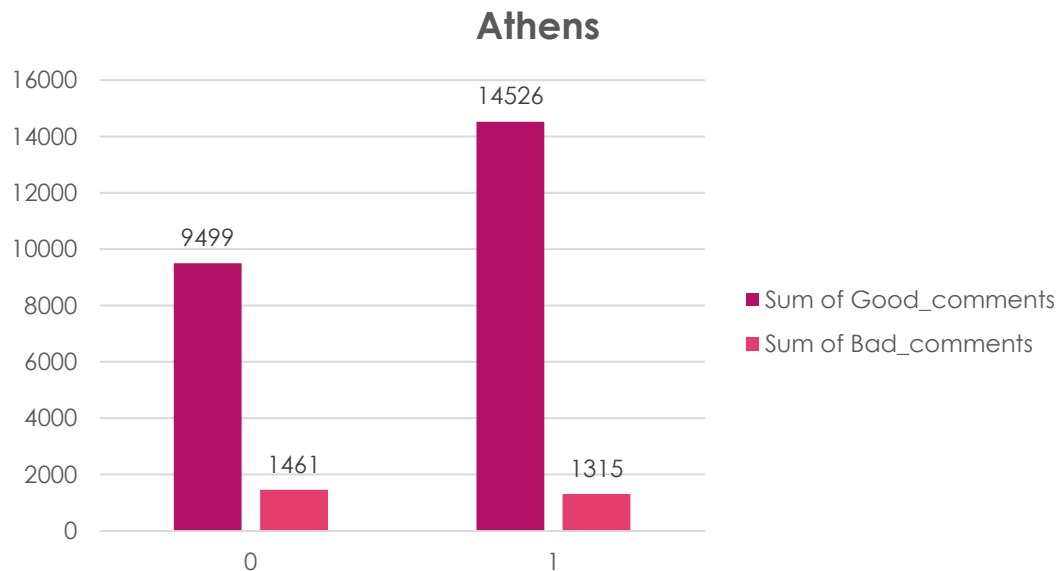
Thessaloniki



c. Analyze how does the comments of reviewers vary for listings of Super Hosts vs Other Hosts(Extract words from the comments provided by the reviewers)

host_is_superhost	Good_comments	Bad_comments
0	9499	1461
1	14526	1315

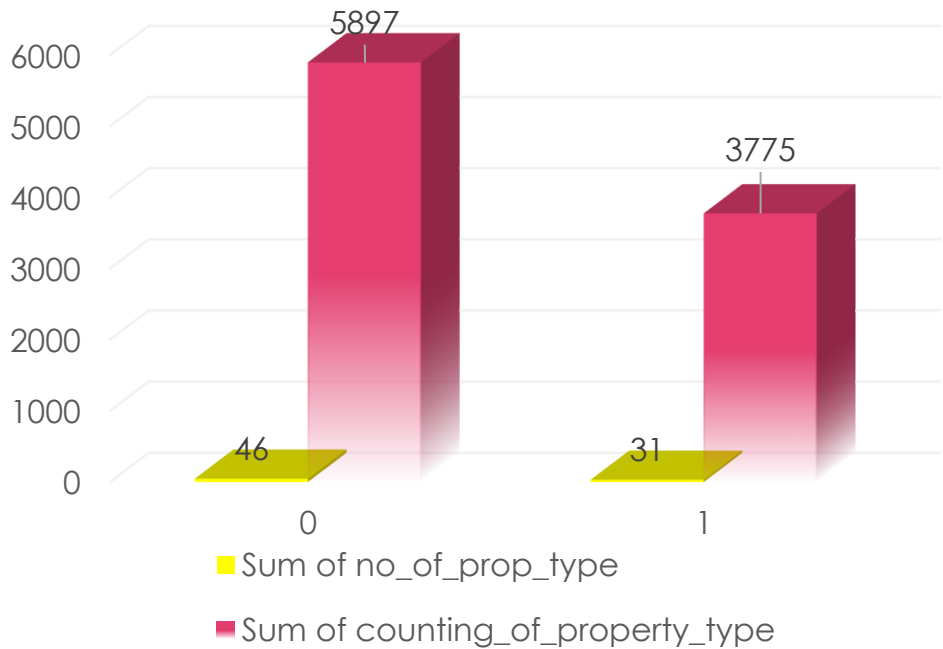
host_is_superhost	Good_comments	Bad_comments2
0	2739	193
1	7599	313



D. Analyze do Super Hosts tend to have large property types as compared to Other Hosts

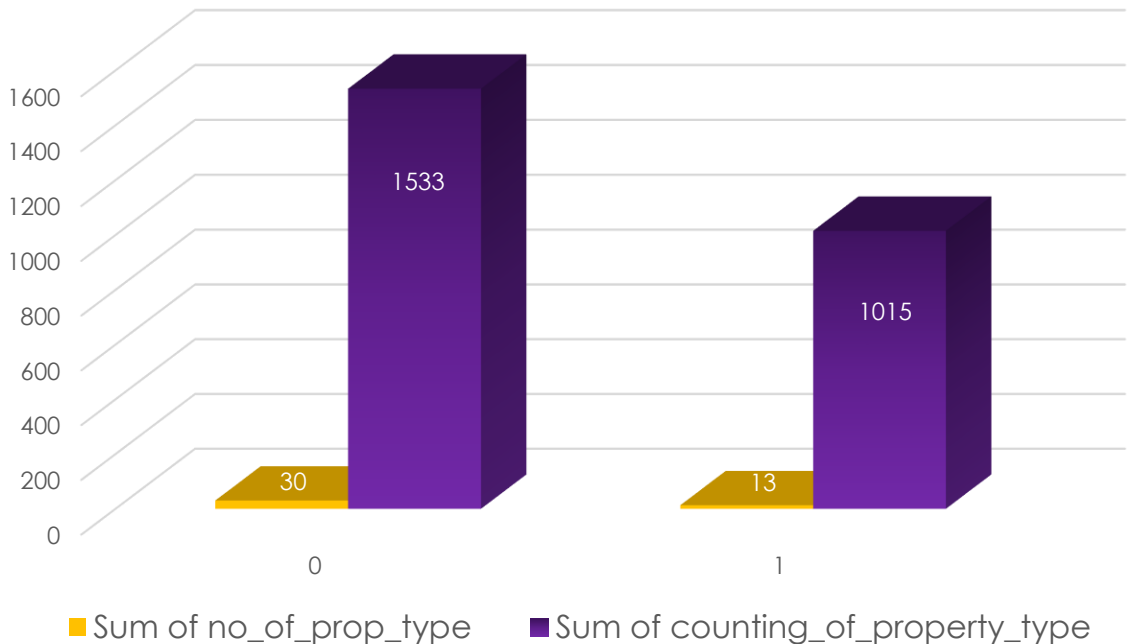
host_is_superhost	no_of_prop_type	counting_of_property_in_city
0	46	5897
1	31	3775

ATHENS



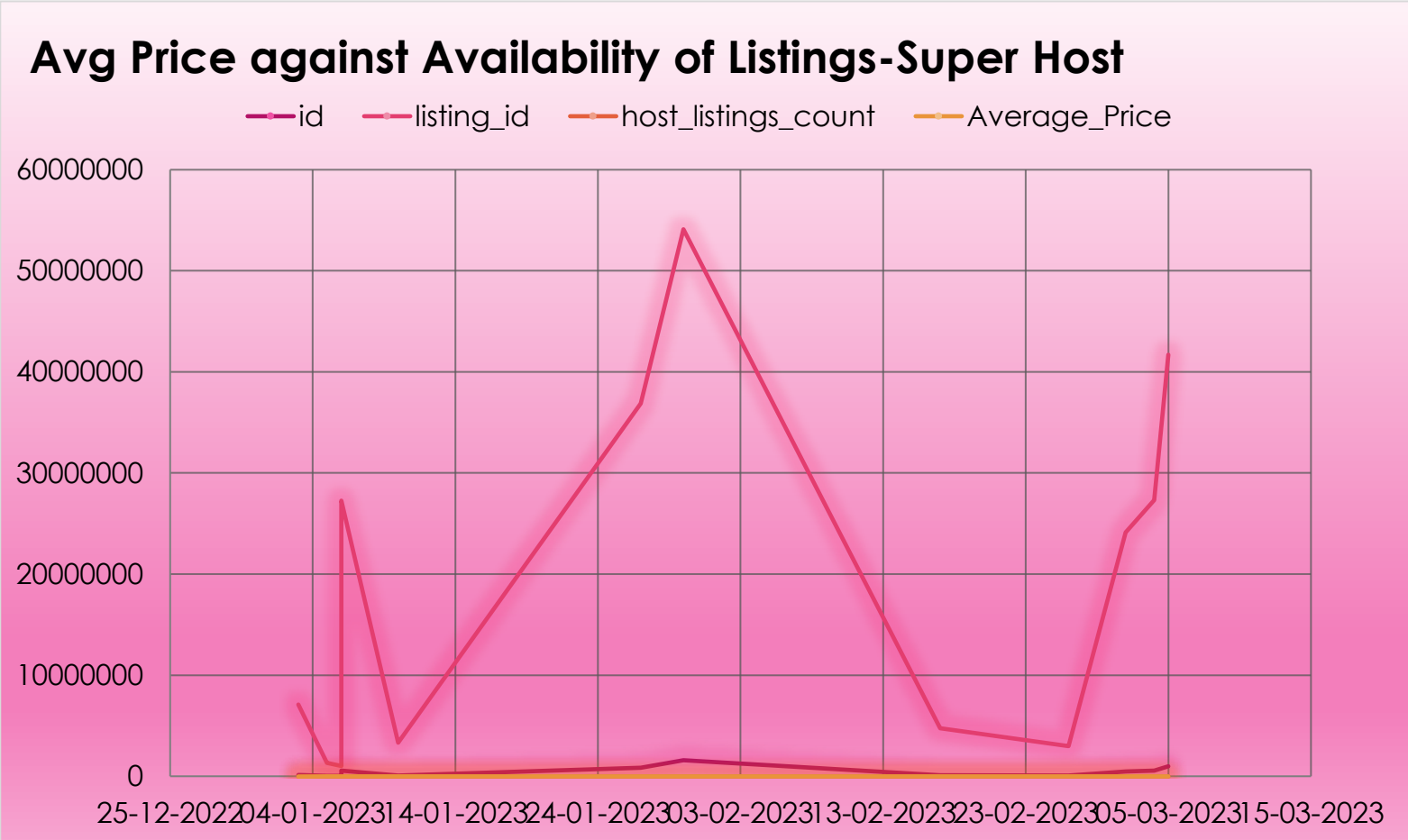
host_is_superhost	no_of_prop_type	counting_of_property_in_city
0	30	1533
1	13	1015

thessaloniki



e. Analyze the average price and availability of the listings for the upcoming year between Super Hosts and Other Hosts

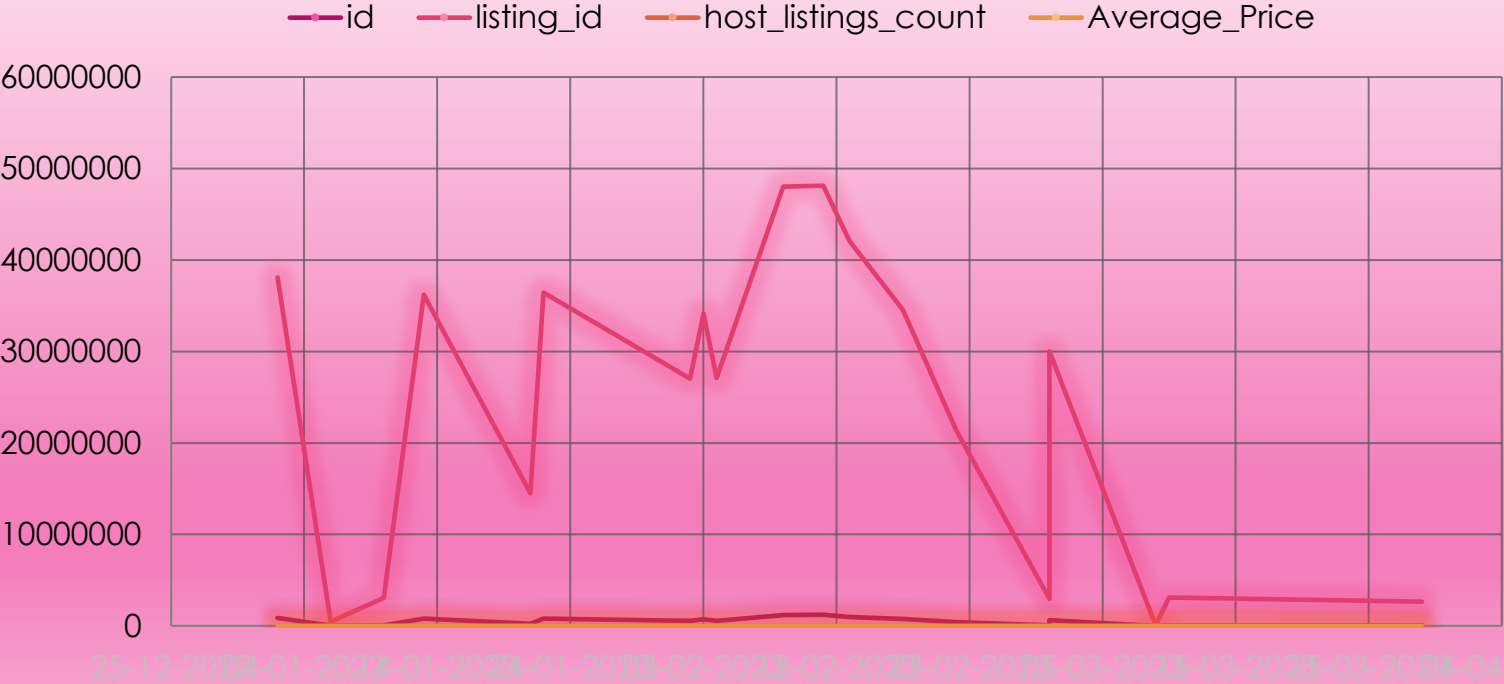
➤ Avg Price against Availability of Listings- Super Host



date	id	listing_id	host_listings_count	Average_Price
03-01-2023	143724	7091335	0	58
05-01-2023	41526	1316477	1	82
06-01-2023	34247	1007137	0	280
06-01-2023	569682	27261102	1	130
10-01-2023	83871	3331694	3	175
27-01-2023	834713	36884302	1	352
30-01-2023	1574553	54086016	2	300
17-02-2023	109845	4747128	4	275
26-02-2023	71508	2988465	1	96
02-03-2023	477778	24133046	1	185
04-03-2023	571929	27314632	1	94
05-03-2023	973890	41696939	3	162

➤ Avg Price against Availability of Listings-Non Super Host

Avg Price against Availability of Listings-Non Super Host

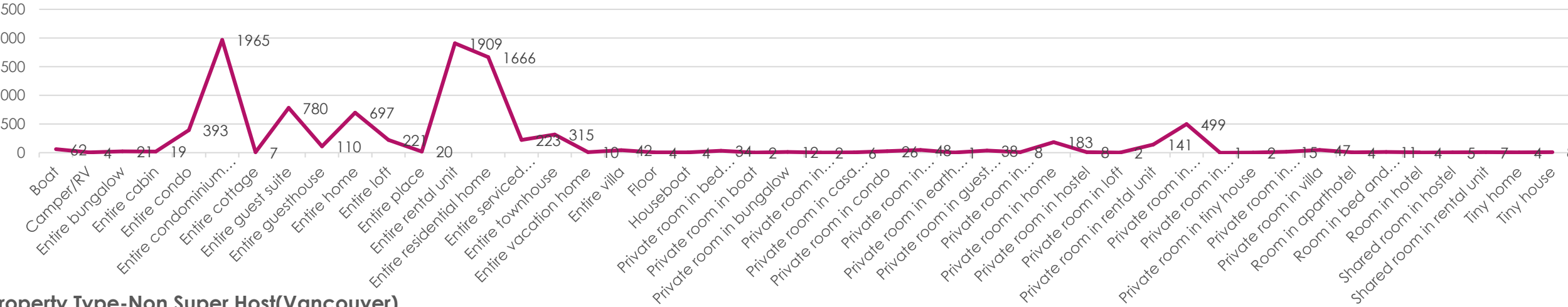
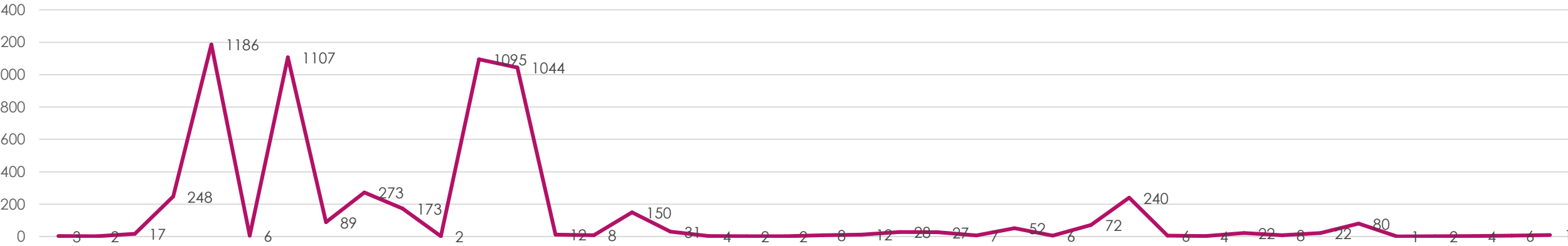


date	id	listing_id	host_listings_count	Average_Price
02-01-2023	869514	38067381	3	150
06-01-2023	19916	461386	2	103
10-01-2023	73286	3068198	0	119
13-01-2023	810224	36184209	0	200
21-01-2023	254337	14505465	2	129
22-01-2023	818284	36451867	0	30
02-02-2023	555474	27030333	3	96
03-02-2023	733981	34126347	1	89
04-02-2023	557301	27112358	1	99
09-02-2023	120045	48005353	8	155
	6	48005353	8	155
	120922	48119786	0	349
12-02-2023	0	48119786	0	349
14-02-2023	986207	42046619	3	175
18-02-2023	754071	34538696	0	300
22-02-2023	406594	21363777	4	99
01-03-2023	70437	2957522	2	275
01-03-2023	636605	29987830	1	125
09-03-2023	8374	49736	1	1950
10-03-2023	74460	3102120	2	97
29-03-2023	65699	2658803	1	102

f. Analyze if there is some difference in above mentioned trends between Local Hosts or Hosts residing in other locations

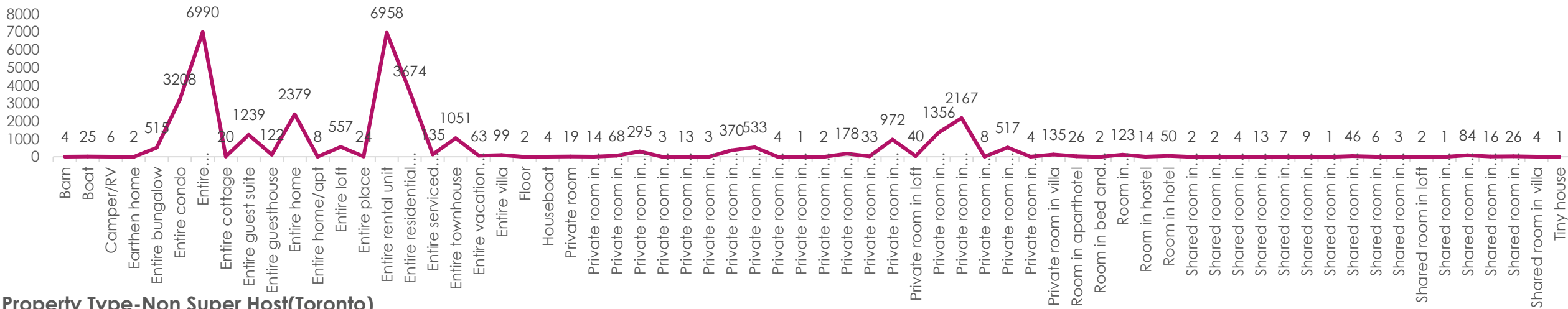
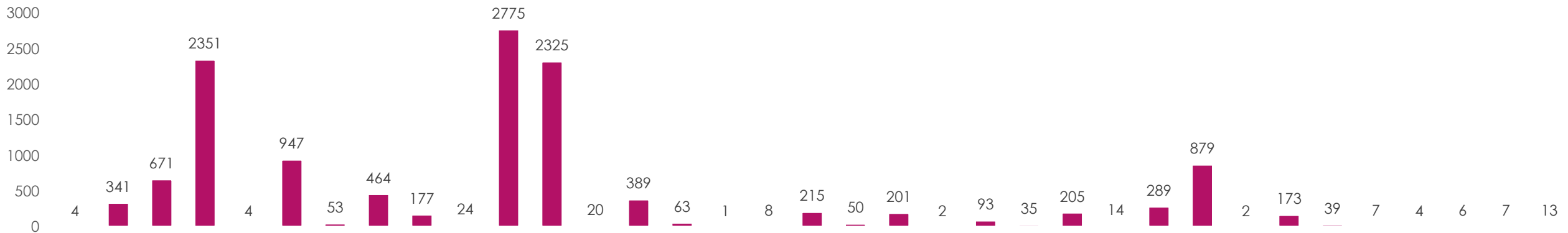
➤ Property Type-Super Host & Non-Super host (Vancouver)

Property Type-Super Host (Vancouver)



➤ Property Type-Super Host & Non-Super host(Toronto)

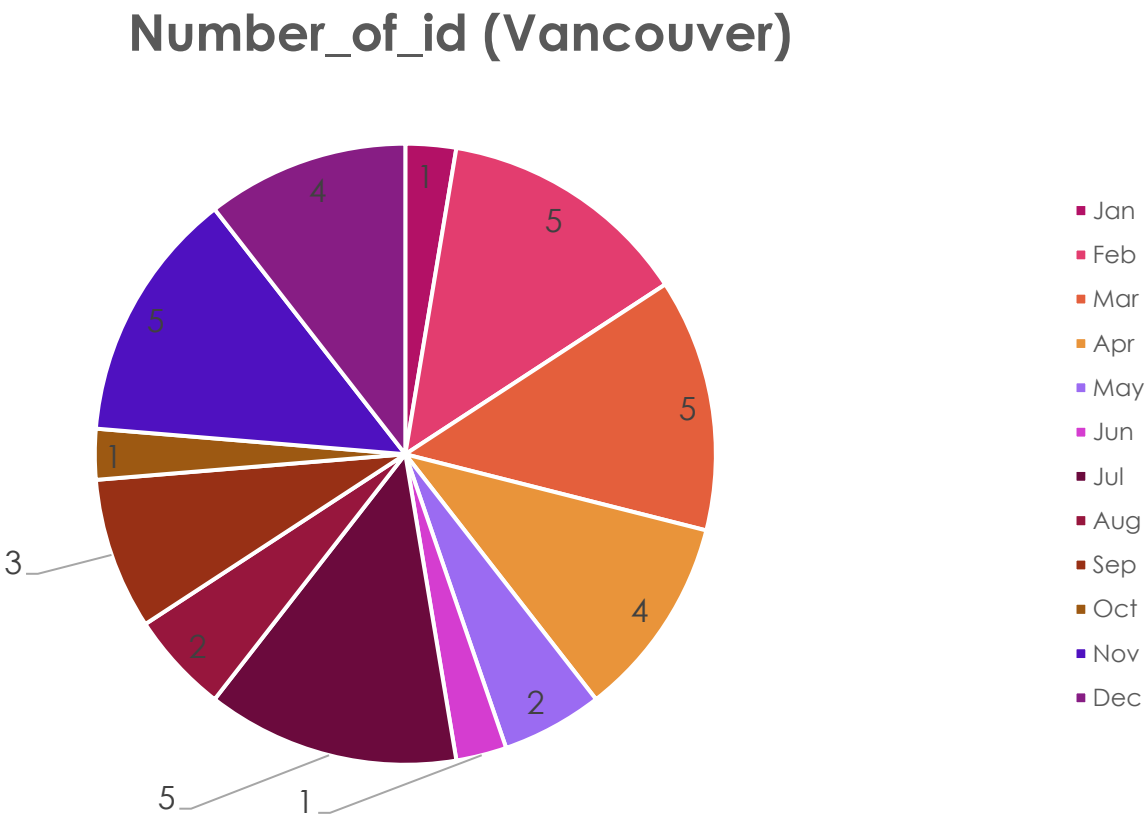
Property Type-Super Host(Toronto)



Property Type-Non Super Host(Toronto)

g. Analyze the above trends for the two cities for which data has been provided and provide insights on comparison

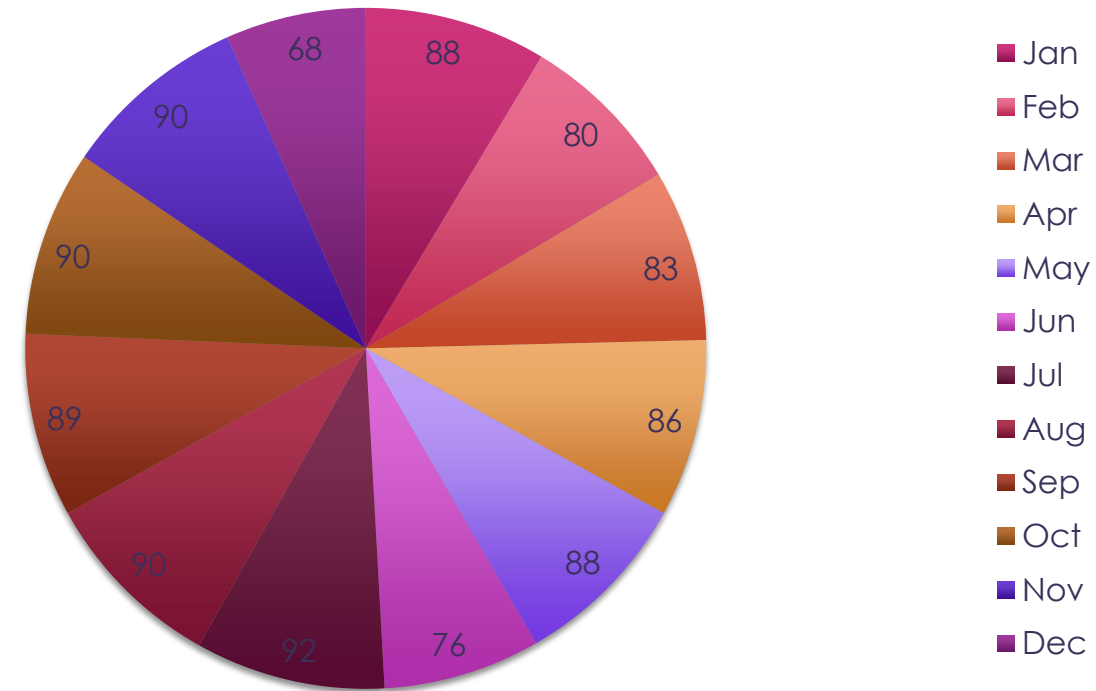
Row Labels	Count of id	Count of listing_id	Sum of host_listings_count	Sum of Average_Price
Jan	1	1	1	82
Feb	5	5	10	479
Mar	5	5	8	481
Apr	4	4	4	343
May	2	2	2	165
Jun	1	1	1	85
Jul	5	5	8	396
Aug	2	2	2	179
Sep	3	3	10	252
Oct	1	1	1	75
Nov	5	5	10	449
Dec	4	4	11	342
Grand Total	38	38	68	3328



➤ Number Of Id and Avg. Price (Toronto)

Row Labels	Count of id	Count of listing_id	Sum of host_listings_count	Sum of Average_Price
Jan	88	88	129	28039
Feb	80	80	143	10925
Mar	83	83	123	12190
Apr	86	86	94	14050
May	88	88	105	12934
Jun	76	76	233	15814
Jul	92	92	168	12018
Aug	90	90	176	14424
Sep	89	89	132	14025
Oct	90	90	175	13299
Nov	90	90	157	13708
Dec	68	68	117	8347
Grand Total	1020	1020	1752	169773

Number_of_id(Toronto)



1st Insight-

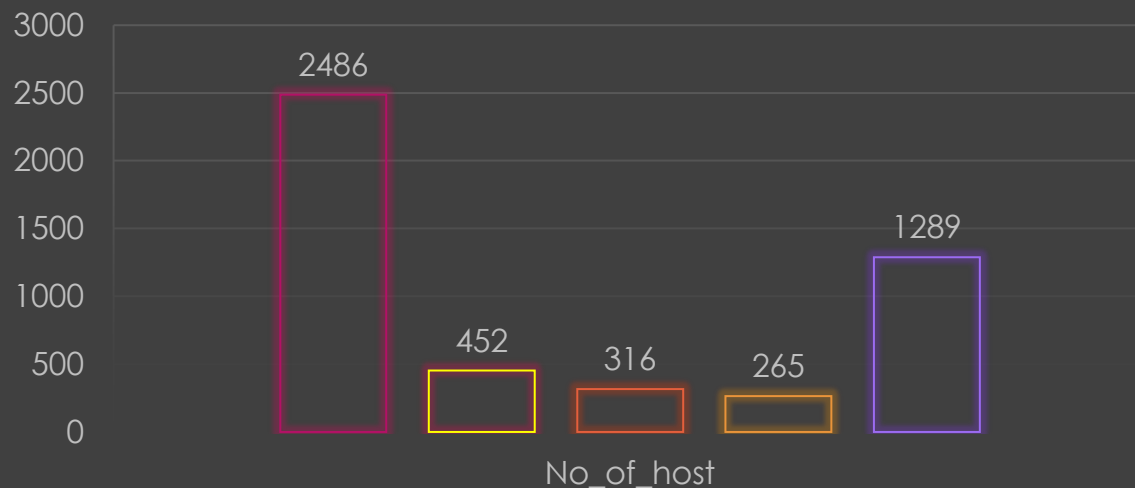
Out of 4808 total hosts, the 50% hosts are responding customer requests within an hour

& Out of 1379 total hosts, the 62% hosts are responding customer request within an hour.

host_response_time	No_of_host
within an hour	2486
within a few hours	452
within a day	316
a few days or more	265
NULL	1289

Athens

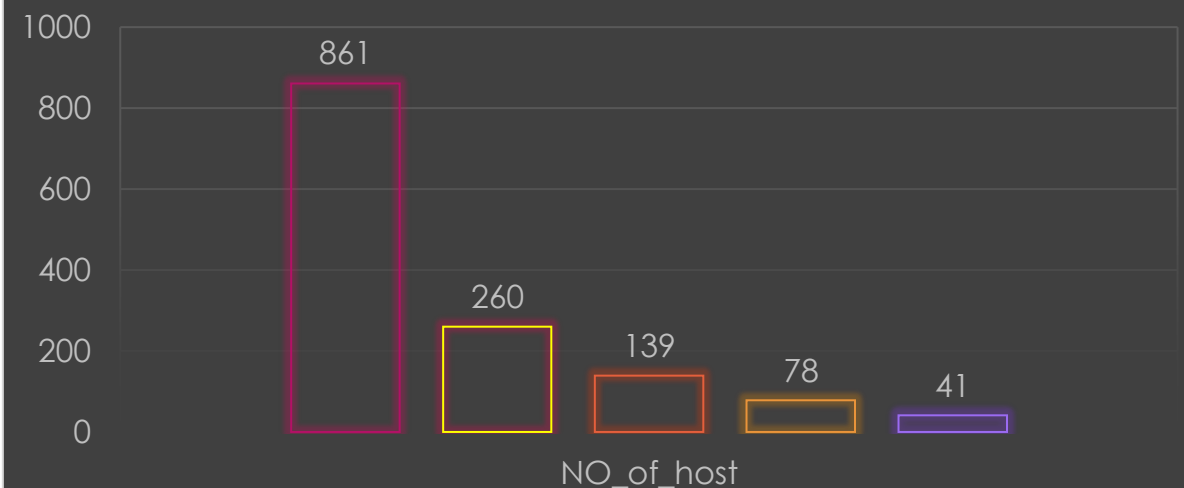
within an hour within a few hours within a day
a few days or more NULL



host_response_time	NO_of_host
within an hour	861
NULL	260
within a few hours	139
within a day	78
a few days or more	41

Thessaloniki

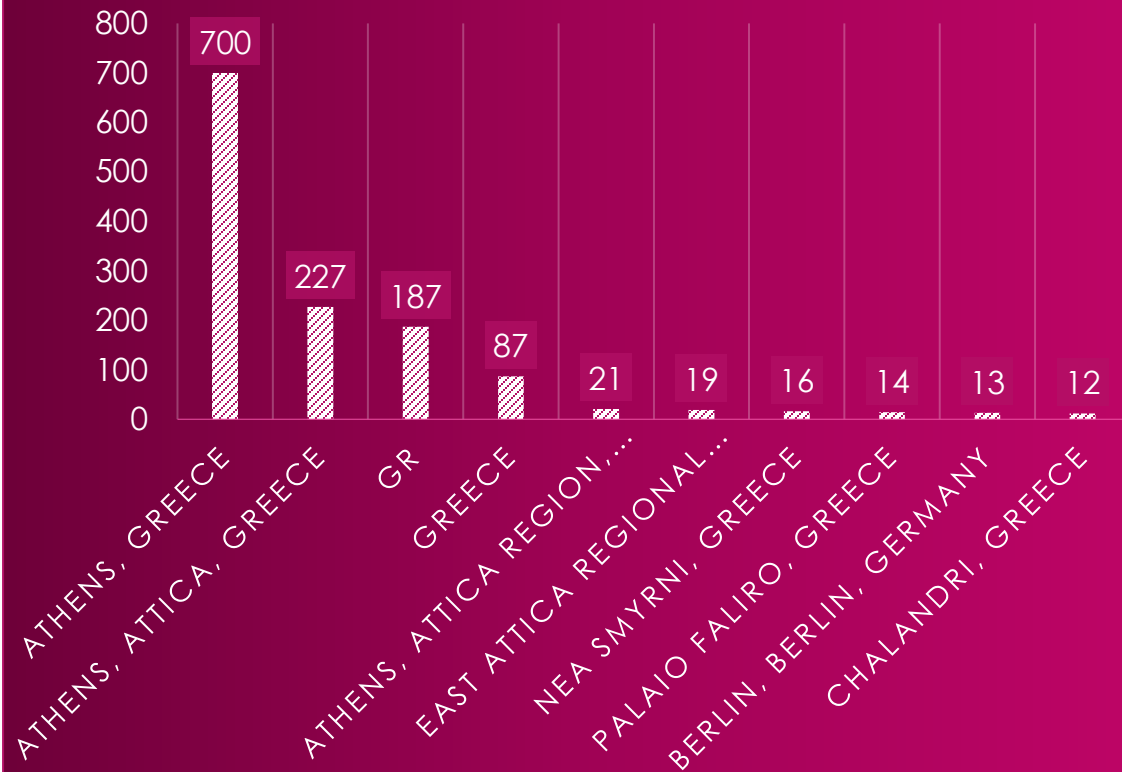
within an hour NULL within a few hours
within a day a few days or more



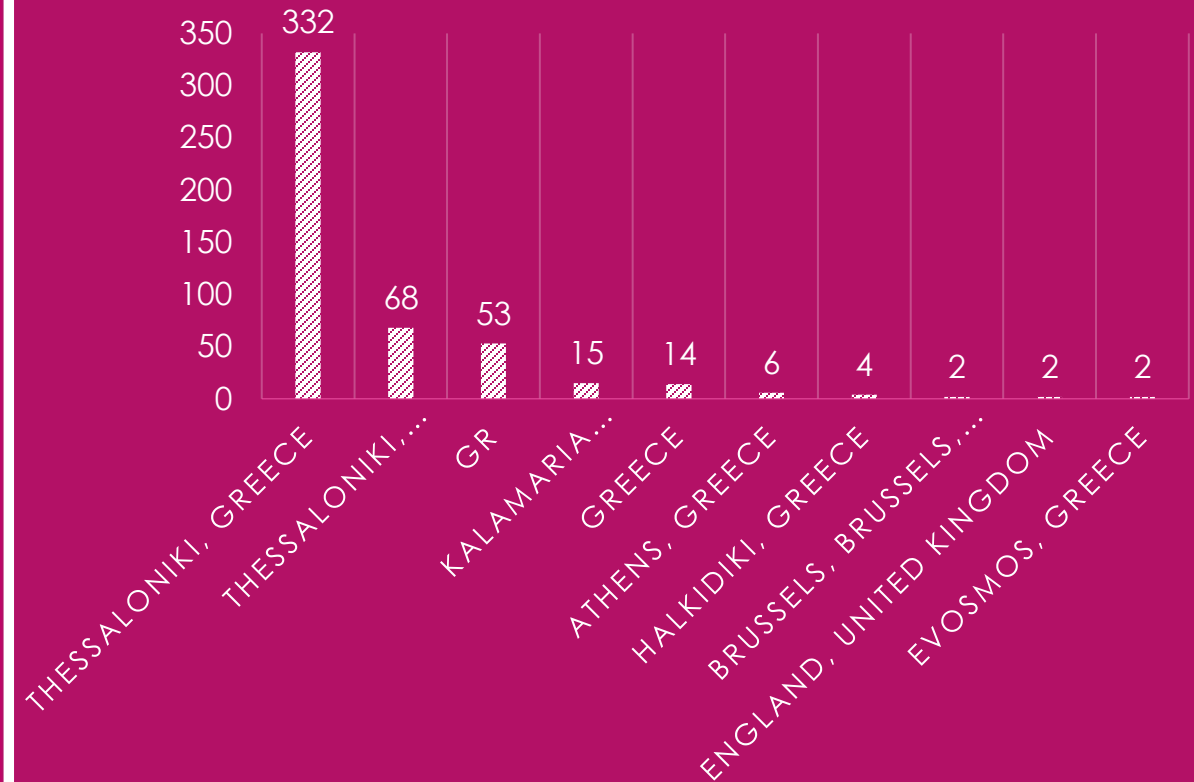
2nd insight-

Out of total 480 region, Athens region having a most super-host i.e 700
& Out of total 146 region, Thessaloniki region having a most super-host i.e 332.

ATHENS



THESSALONIKI

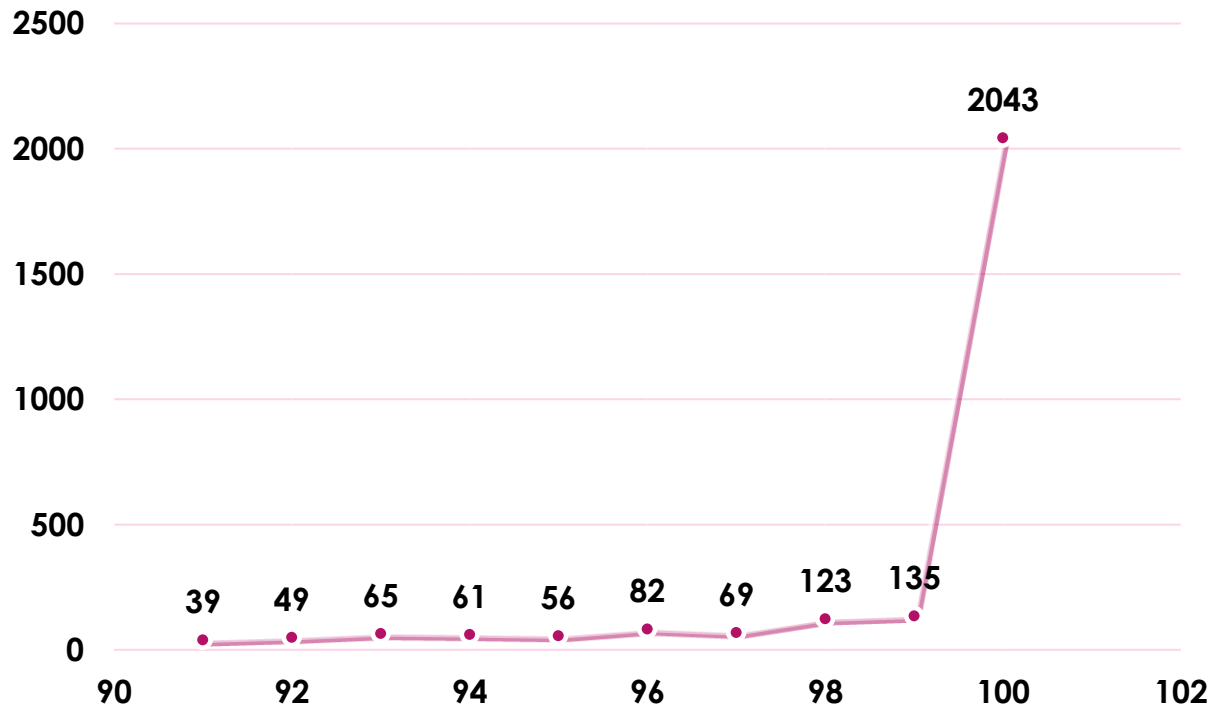


3rd Insight-

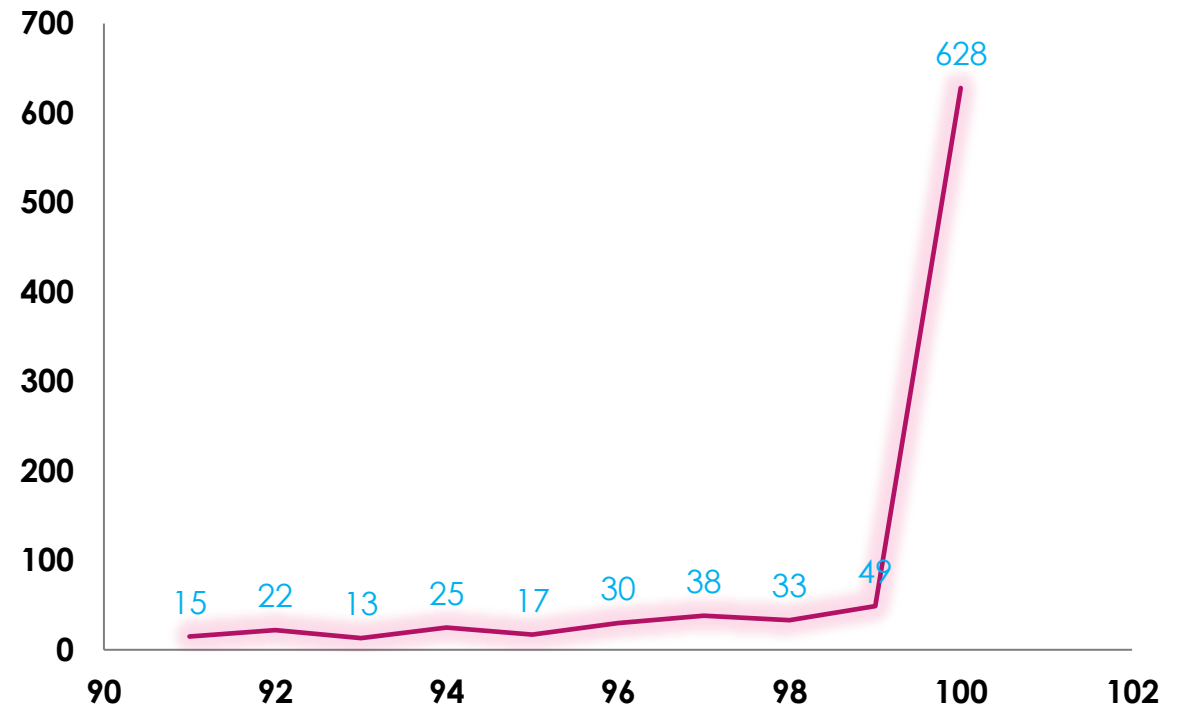
There are total 4809 host and out of these 2043 hosts are having a 100% acceptance rate &

In Thessaloniki city total host 1379 and out of these 628 host are having 100% acceptance rate

ATHENS



Thessaloniki





THANK YOU

THANK YOU