

SQL Project NYC Accommodation Data Analysis

By Viraj Panchal

Dataset Overview

This dataset provides a comprehensive look at various aspects of accommodations available in New York City. It is designed to assist in understanding the dynamics of the local rental market, including pricing, demand, and host activity. Below is a detailed description of each column present in the dataset:

id: The unique identifier for each property listing. This numeric value serves as the primary key in the dataset and is essential for distinguishing between listings.

price: Represents the nightly rate charged for the property. This numeric field reflects the cost guests incur for their stay and is a critical factor in market analysis.

minimum_nights: Indicates the smallest number of nights that guests can book the property. This integer field helps understand the booking policy of listings.

number_of_reviews: A count of the total reviews left by guests. This integer column is indicative of the property's popularity and guest satisfaction.

reviews_per_month: The average number of reviews the property receives per month. This float column provides insights into the consistency of guest feedback over time.

calculated_host_listings_count: Shows the total number of properties listed by the same host on the platform. This integer field is useful for identifying multi-listing hosts.

availability_365: The number of days in the year when the property is available for booking. This integer column is crucial for understanding the availability and potential occupancy of the property.

This structured dataset is pivotal for conducting various analyses, such as price optimization, market demand assessment, and host activity evaluation. It can be utilized by data analysts, real estate professionals, and researchers interested in the New York City accommodation market.

Answer the questions below with SQL Query

1. write query to show name from NYC_1
2. write query to show count of id in nyc_1
3. write query to show count of id in nyc_2
4. write query to show host id in nyc_1
5. write query to show all unique host id from nyc_1
6. write query to show all unique neighbourhood_group from nyc_1
7. write query to show all unique neighbourhood from nyc_1
8. write query to show room_type from nyc_1
9. write query to show all values of Brooklyn & Manhattan from nyc_1
10. write query to show unique value of room type from nyc_1
11. write query to show maximum price from nyc_2
12. write query to show maximum price from nyc_2
13. write query to show average price from nyc_2
14. write query to show minimum value of minimum_nights from nyc_2
15. write query to show maximum value of minimum_nights from nyc_2
16. write query to show average availability_365
17. write query to show id , availability_365 and all availability_365 value is greater than 300
18. write query to show count of id where price is in between 300 to 400
19. write query to show count of id where minimum_nights spend is less than 5
20. write query to show count where minimum_nights spend is greater than 100
21. write query to show all data of nyc_1 & nyc_2
22. write query to show host name and price
23. write query to show room_type and price
24. write query to show neighbourhood_group & minimum_nights spend
25. write query to show neighbourhood & availability_365
26. write query to show total price by neighbourhood_group
27. write query to show maximum price by neighbourhood_group
28. write query to show maximum night spend by neighbourhood_group
29. write query to show maximum reviews_per_month spend by neighbourhood
30. write query to show maximum price by room type
31. write query to show average number_of_reviews by room_type
32. write query to show average price by room type
33. write query to show average night spend by room type
34. write query to show average price by room type but average price is less than 100
35. write query to show average night by neighbourhood and average_nights is greater than 5
36. write query to show all data from nyc_1 and price is greater than 200 using sub-query
37. write query to show all values from nyc_2 table and host id is 314941
38. Find all pairs of id having the same host id, each pair coming once only.
39. write sql query to show fetch all records that have the term cozy in name
40. write query to show price host id neighbourhood_group of Manhattan neighbourhood_group
41. write query to show id , host name, neighbourhood and price but only for Upper West Side & Williamsburg neighbourhood also price is greater than 100
42. write query to show id , host name, neighbourhood and price for host name Elise and neighbourhood is Bedford-Stuyvesant
43. write query to show host_name, availability_365, minimum_nights only for 100+ availability_365 and minimum_nights
44. write query to show to fetch id , host_name , number_of_reviews, and reviews_per_month but show only that records where number of reviews are 500+ and review per month is 5+

45. write query to show neighbourhood_group which have most total number of review
46. write query to show host name which have most cheaper total price
47. write query to show host name which have most costly total price
48. write query to show host name which have max price using sub-query
49. write query to show neighbourhood_group which price are less than 100
50. write query to find max price, average availability_365 for each room type and order in ascending by maximum price