

Data analytics With SQL

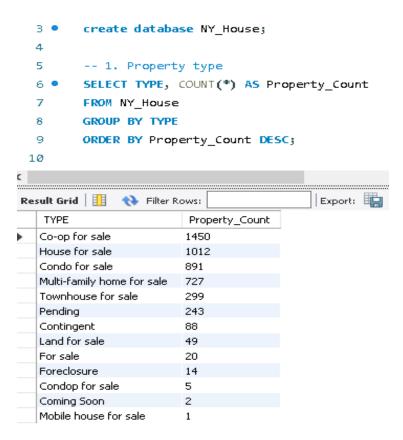
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Data analytics SQL

1. Property Type

SELECT TYPE, COUNT(*) AS Property_Count FROM NY_House GROUP BY TYPE ORDER BY Property_Count DESC;



EXPLAINATION:

This query calculates the average price of properties grouped by their types, allowing stakeholders to understand the average price range for each property type and identify potential areas of investment or market trends.

2. Average Price by Property Type



EXPLAINATION:

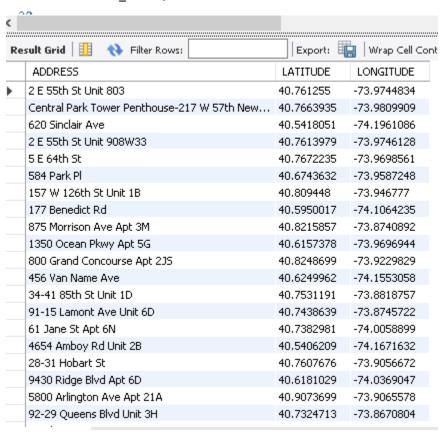
This query helps analyze the distribution of property types and identifies the most common types of properties listed in the dataset, providing insights into market preferences.

3. Geospatial Analysis

SELECT ADDRESS, LATITUDE, LONGITUDE FROM NY House;

18 • SELECT ADDRESS, LATITUDE, LONGITUDE

19 FROM NY_House;



Explaination:

This query retrieves the address along with latitude and longitude coordinates of properties, enabling geospatial analysis to identify hotspots, clusters, or patterns in property distribution across New York City.

4. Bedroom-Bathroom Ratio

SELECT BEDS, BATH, COUNT(*) AS Property_Count FROM NY_House GROUP BY BEDS, BATH ORDER BY Property_Count DESC; 22 • SELECT BEDS, BATH, COUNT(*) AS Property_Count FROM NY_House GROUP BY BEDS, BATH ORDER BY Property_Count DESC; Result Grid 🙌 Filter Rows: Export: 🙀 Wrap BEDS BATH Property_Count 2.3738608579684373 2.3738608579684373

Explaination:

This query provides insights into the distribution of bedroom and bathroom combinations in listed properties, helping stakeholders understand housing preferences and market demand for different configurations.

5. Address Analysis

```
SELECT LOCALITY, COUNT(*) AS Property_Count
FROM NY_House
GROUP BY LOCALITY
ORDER BY Property_Count DESC
LIMIT 10;
          SELECT LOCALITY, COUNT(*) AS Property_Count
  28 •
  29
          FROM NY_House
          GROUP BY LOCALITY
  30
  31
          ORDER BY Property_Count DESC
  32
          LIMIT 10;
                                              Export: 🙀 W
 Result Grid
                Filter Rows:
    LOCALITY
                    Property_Count
   New York
                    2505
                    979
    New York County
    Queens County
                    557
    Kings County
                    464
    Bronx County
                    182
    Richmond County
                    59
    United States
                    37
    Brooklyn
                    6
    Queens
                    6
                    5
    The Bronx
```

Explaination:

This query retrieves the top 10 localities with the highest number of properties listed in the dataset. It provides insights into the distribution of properties across different neighborhoods or localities within New York City.

6. Maximum locality

SELECT MAX(LOCALITY) AS Max FROM NY_House GROUP by LOCALITY; 35 • SELECT MAX(LOCALITY) AS Max FROM NY_House 36 GROUP by LOCALITY; 37 38 Result Grid Filter Rows: LOCALITY Property_Count 2505 New York New York County 979 Queens County 557 Kings County 464 Bronx County 182 Richmond County 59 United States 37 Brooklyn 6 Queens 6

5

Explaination:

The Bronx

"Maximum locality" isn't a standard term in SQL or data analysis. If you could provide more context or clarify what you mean by "maximum locality," I would be better able to assist you in generating an explanation or que "Maximum locality" isn't a standard term in SQL or data analysis. If you could provide more context or clarify what you mean by "maximum locality," I would be better able to assist you in generating an explanation or query.

7. Price Distribution by State

```
SELECT STATE, AVG(PRICE) AS Avg_Price
FROM NY_House
GROUP BY STATE
ORDER BY Avg_Price DESC;
 41 •
          SELECT STATE, AVG(PRICE) AS Avg_Price
 42
          FROM NY_House
          GROUP BY STATE
 43
          ORDER BY Avg Price DESC;
 44
 45
                                                 Export:
                 🙌 Filter Rows:
Result Grid
    STATE
                         Avg_Price
   New York, NY 10309
                        2147483647.0000
   Manhattan, NY 10013
                        12965333.3333
   New York, NY 10013
                        11128124.9583
   New York, NY 10011
                        9810750.0000
   Manhattan, NY 10075
                        9189461.5385
   New York, NY 10019
                        8764590.9091
   New York, NY 10065
                        8412191.4681
   New York, NY 10007
                        8340466.6667
   New York, NY 10021
                        7821999.8750
   New York, NY 10014
                        7219454.5455
   New York, NY 10075
                        7107821.3571
   New York, NY 10012
                        6897071.4286
   New York, NY 10010
                        6385707.2353
   New York, NY 10028
                        5715390.2439
   Manhattan, NY 10003
                        5237416.6667
   Manhattan, NY 10018
                        4880000.0000
   Manhattan, NY 10011
                        4872303.5714
   New York, NY 10023
                        4813945.4182
```

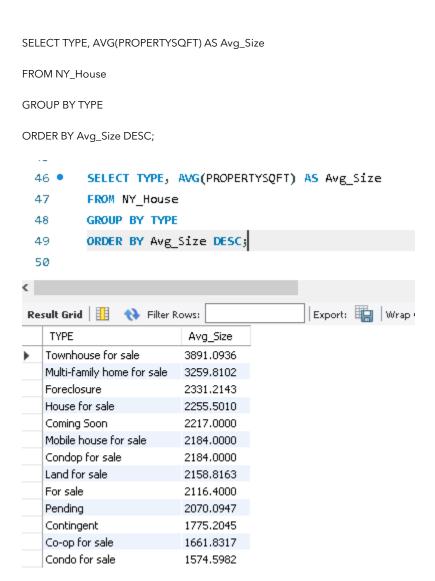
4515666.6667

Explaination:

Manhattan, NY 10002

This query calculates the average price of properties grouped by state, allowing stakeholders to understand price disparities and trends across different regions within New York.

8. Property Size Distribution by Property Type



Explaination:

This query computes the average property size (in square footage) for each property type, providing insights into the typical size range associated with different types of properties.

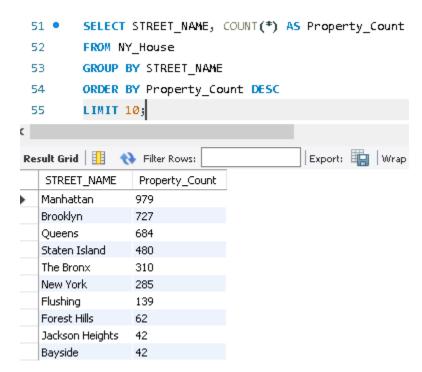
9. Popular Street Names

FROM NY_House

GROUP BY STREET_NAME

ORDER BY Property_Count DESC

LIMIT 10;



Explaination:

This query identifies the most frequently occurring street names among listed properties, providing insights into popular areas and neighborhoods within New York.

10. Property Size vs Price

SELECT TYPE, AVG(PROPERTYSQFT) AS Avg_Size, AVG(PRICE) AS Avg_Price

GROUP BY TYPE

ORDER BY Avg_Price DESC;

```
SELECT TYPE, AVG(PROPERTYSQFT) AS Avg_Size, AVG(PRICE) AS Avg_Price
 57 •
          FROM NY_House
 58
          GROUP BY TYPE
 59
 60
          ORDER BY Avg_Price DESC;
 61
 62
Result Grid
                Filter Rows:
                                                Export: Wrap Cell Content: IA
   TYPE
                           Avg_Size
                                       Avg_Price
   Townhouse for sale
                           3891.0936
                                      6365924.5485
   House for sale
                           2255.5010
                                      3684215.5208
   Condo for sale
                           1574.5982
                                      2630710.0774
   For sale
                           2116.4000
                                      1954535.9500
   Multi-family home for sale
                           3259.8102
                                      1680427.6699
   Foreclosure
                           2331.2143
                                      1343010.3571
   Pending
                           2070.0947
                                      1340867.2469
   Mobile house for sale
                           2184.0000
                                      1288000.0000
   Coming Soon
                           2217.0000
                                      1172000.0000
   Co-op for sale
                           1661.8317
                                      1100417.6966
   Land for sale
                           2158.8163
                                      1073021.3878
   Condop for sale
                           2184.0000
                                      998600.0000
   Contingent
                           1775.2045
                                      882571.6591
```

Explaination:

This query examines the relationship between property size (square footage) and price for each property type, allowing stakeholders to assess the impact of size on pricing within different segments of the market.