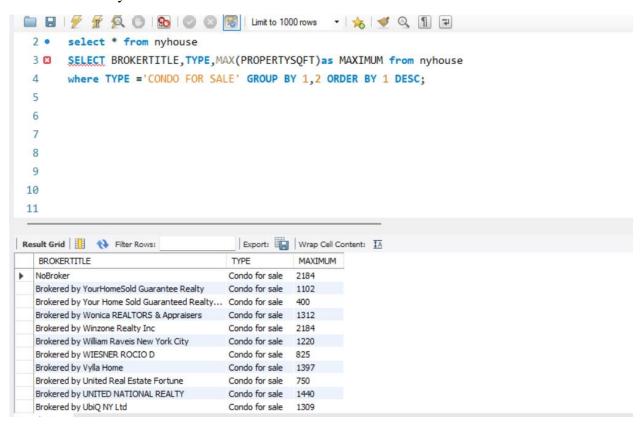
Data Analytics SQL Mini-Project-2

Insight number 1 –

--MAXIMUM AREA

Print broker title, type and get maximum area for the property filter only for 'condo for sale' type and order them by desc on broker title column?



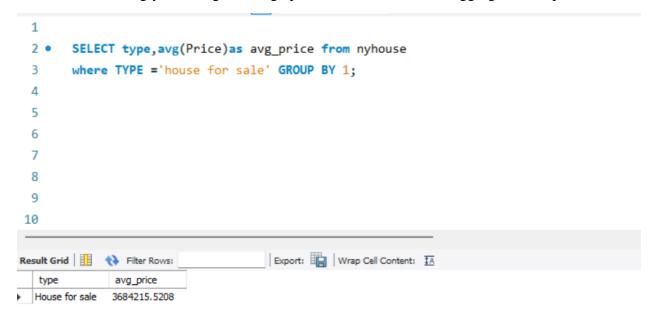
Explanation – to print the result I used SELECT then column names from table (brokertitle,type)then I used MAX Aggregation function to get maximum property area .then I filter only for particular type ('condo for sale') then I group them and then I order them by desc.

Insight number 2 –

--AVERAGE PRICE

Print type and average price for 'house for sale' type from the table?

Explanation- I want to print my result in 1st column as type and in 2nd column I want avg_price. so I select accordingly then to get average price. I used AVERAGE aggregation on price table.

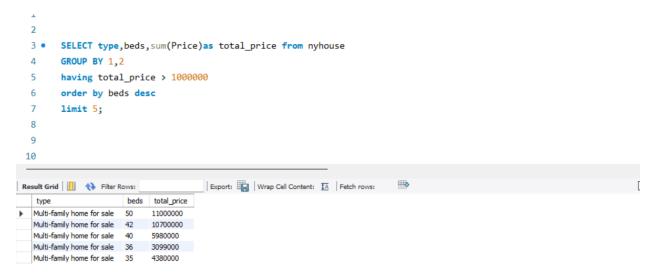


Insight number 3 –

--price greater than 1000000

Print type, number of beds and find total_price using (price) from table and sort the price which is have greater than 1000000. and sort the order by desc order on beds and find top 5?

Explanation- in 1^{st} column I print the type column and in 2^{nd} column print no of beds then I used SUM to calculate total price. I filter to only which total_price is greater than 1000000. To get this result I use HAVING . then I want to see where the beds are max so I sort the result in desc order.

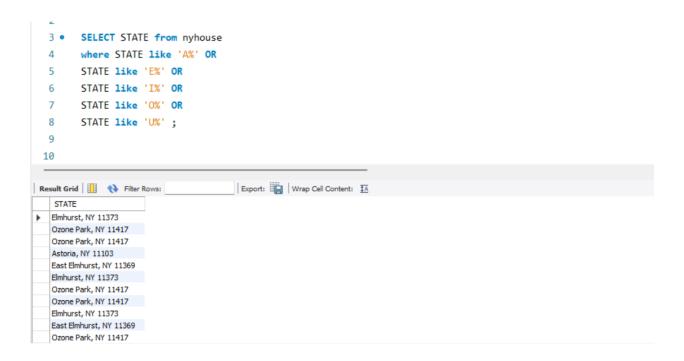


Insight number 4 –

--Vowels

Print the state name which start with vowels?

Explanation – to get result I use state column in table. Then using LIKE function I got the result.



Insight number 5 –

--maximum baths

Print the address where maximum bath are present and order it by desc on bath column?

Explanation- to get result I have used max aggregation function on bath column.

```
1
  2 • select address, max(bath) as max_bath from nyhouse
  3
       group by 1
     order by 2 desc;
  4
  5
  6
  7
  8
  9
Export: Wrap Cell Content: 🔼 Fetch rows:
  address
              max_bath
 8820 Avenue J
  646-662 Port Richmond Ave 43
  8001 New Utrecht Ave
  3520 Newkirk Ave Unit 24 24
  1319 Newkirk Ave
                     20
  76 Irving Pl
                   20
  35-54 95th St
                     20
                    17
  2245 Creston Ave
  177 Benedict Rd
  8699 Bay Pkwy Unit 16
                   16
  5206 6th Ave
Result 54 ×
```

Insight number 6 –

--sub locality classification

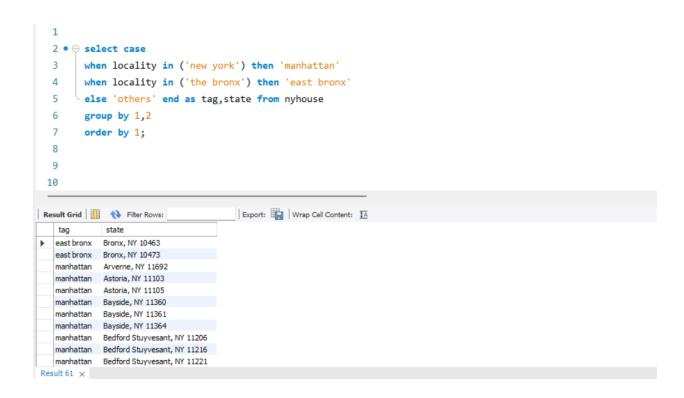
Categorize the sub locality in 3 types

When locality 'New York' then sub locality 'Manhattan'

When locality 'the Bronx' then sub locality 'east Bronx'

Else others print the result in 1^{st} column name contain tag 2^{nd} column as state

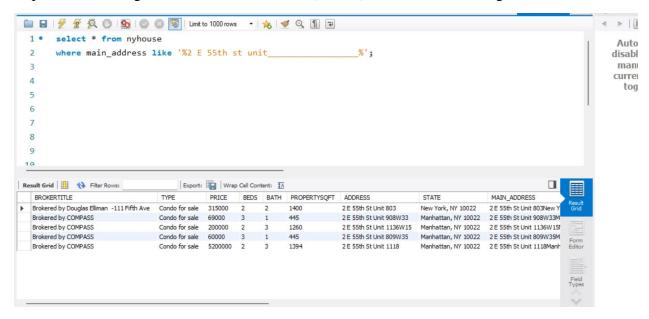
Explanation – using when case I got the result.



Insight number 7 –

--sort main address

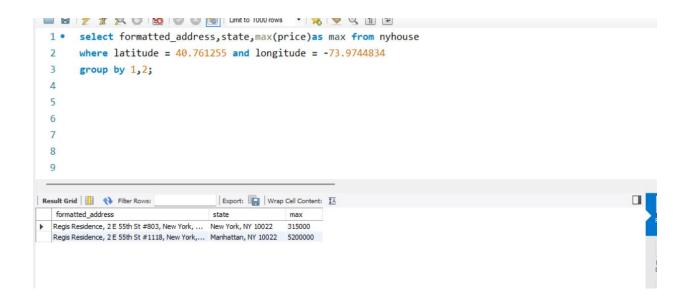
Print all the details from NYhouse table filter to main address which start with '2 E 55th st unit'? Explanation – using wild card in like function (_ or %) I sort the result using main_address.



Insight number 8 —--same latitude and longitude

Print state ,formatted address, maximum price with same latitude and longitude (40.761255 and -73.9744834)?

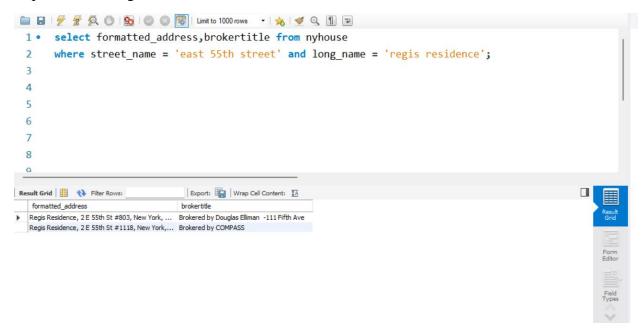
Explanation- using where clause got the result.



Insight number 9- same street_name and long_name

Print formatted_address and brokertitle where street_name 'east 55th street' and long_name is 'Regis residence'?

Explanation- using where clause.



Insight number 10-

Least price and top 3

Print type,brokertitle,and least price for the house having less than 500000 order the result by asc on price and show the top 3 house?

Explanation- selected type , brokertitle column from table to print in 1^{st} and 2^{nd} column in the result resp. then to get least price I use MINIMUM aggregation on price to filter it on price which is have less than 500000 I use having clause. And to get top 3 I use limit.

