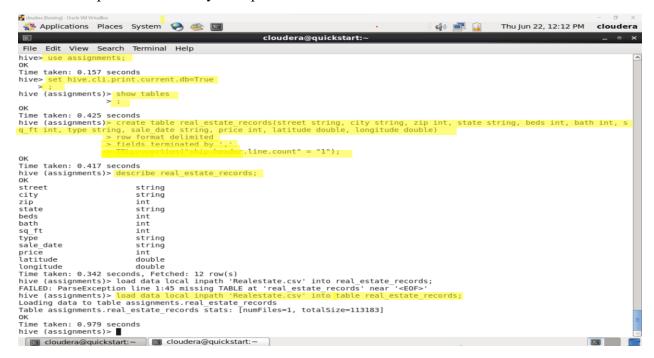
Gupta Bhandari

Student id: c0899873

To analyze the given data from a "Realestate.csv" file, I first created a database namely "assignments". Then, I created a table "real_estate_records" with fields: Street, city, zip, state, beds, bath, sq_ft, type, sale_date, price, latitude, longitude to store the data from "Realestate.csv" file. After that, I loaded the data from "Realestate.csv" file to the "real_estate_records" table. All these steps are reflected by a snapshot below:



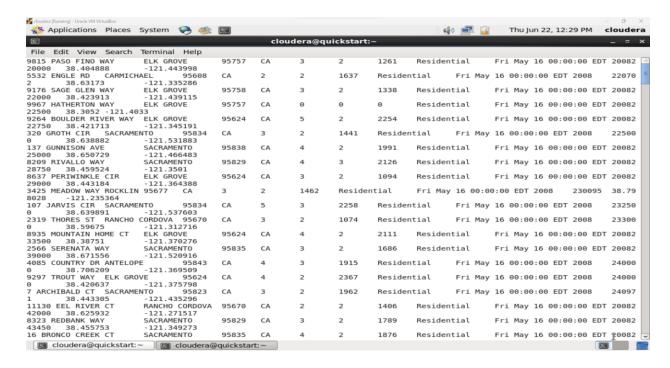
After this, I processed the problem statements to analyze data as listed below:

1. List all the residential which is not less than 10,000:

For this problem statement, I ran a query in HQL(Hive Query Language) as: select * from real_estate_records where type = "Residential" and price >= 10000; as shown in snapshot below:



After running above mentioned query, I got all the Residentials whose price is more than or quals to 10,000 as shown in snapshot below:

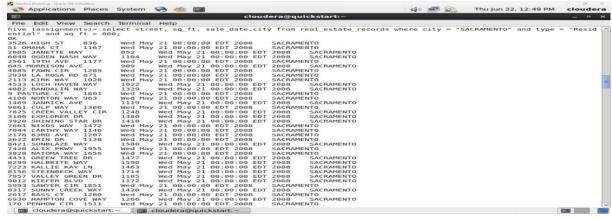


2. <u>In SACRAMENTO city which residential type has more than 800sq ft. Display their</u> respective details street, sq ft, sale date, city:

To perform this analysis, I ran a query as: select street, sq_ft, sale_date, city from real_estate_records where city = "SECRAMENTO" and type = "Residential" and sq ft>800; as shown below:



After running the query, I got the desired result as shown in a snapshot below:

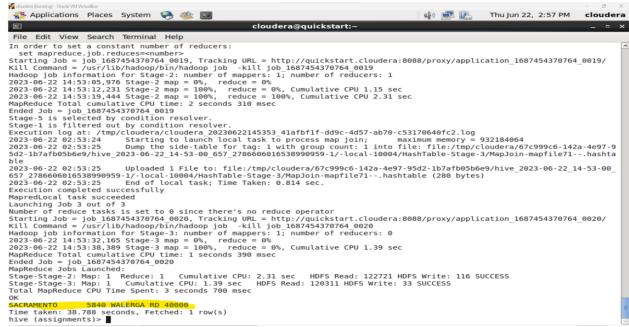


3. Which is the cheapest Condo in CA. name the city, street, and price for the Condo:

To perform this analysis, I ran a HQL query: select city, street, price from real_estate_records t where t.price in (select min(price) from real_estate_records where type = "Condo" and state = "CA"); as shown in following snapshot:



After executing the above mentioned HQL query, I got a result as reflected by snapshot below:



4. <u>List top 5 residency details which lie in the budget of 50000-100000, an area more than 1250, min bedroom 3 and, min bathroom 2:</u>

For this analysis, I ran a HQL query as: select * from real_estate_records where price between 50000 and 100000

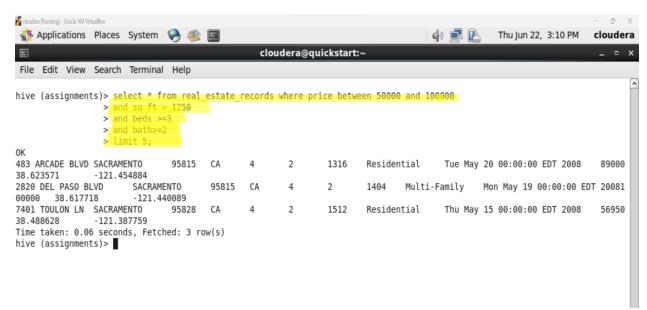
and sq ft > 1250

and beds ≥ 3

and bath ≥ 2

limit 5;

and got a result as shown below in screenshot:



5. Create a new partitioned table having separate list of residential apartments with more than 2 beds. Table should have following attributes/fields:- i) Cityname ii) Baths iii) sq feet iv) price v) flat type vi) beds:

For this problem statement, I firstly created a partitioned table "real estate partitioned records" as shown in snapshot below:



Then, to load the data to this partitioned table, I overwrite it with the data from the original table "real_estate_records" by running a query as: from real_estate_records t insert overwrite table real_estate_partitioned_records partition(flat_type) select t.city, t.bath, t.sq_ft, t.price, t.beds, t.type where t.type = "Residential" and t.beds > 2; The code snippet is shown below in snapshot:



After loading the data to the partitioned table "real_estate_partitioned_records", I verified the data by running a HQL query: select * from real_estate_partitioned_records;