hadoop fs -mkdir -p /salmah/hive/airbnb

hadoop fs -chmod 765 /salmah/hive/airbnb

hadoop fs -put /home/salmah/Downloads/LA_Listings.csv /salmah/hive/airbnb/

hadoop fs -put /home/salmah/Downloads/NY_Listings.csv /salmah/hive/airbnb/

cd hive/bin

hive

create database airbnb; show databases;

```
listing_id STRING,
  name STRING.
  host id STRING,
  host name STRING,
  host response rate STRING,
  host is superhost STRING,
  host_total_listings_count INT,
  street STRING,
  city STRING,
  neighbourhood cleansed STRING,
  state STRING,
  country STRING,
  latitude FLOAT,
  longitude FLOAT,
  property_type STRING,
  room_type STRING,
  accommodates INT,
  bathrooms FLOAT,
  bedrooms FLOAT.
  amenities STRING.
  price FLOAT,
  minimum nights INT,
  maximum nights INT,
  availability_365 INT,
  calendar last scraped STRING,
  number of reviews INT,
  last review date STRING,
  review_scores_rating FLOAT,
  review_scores_accuracy FLOAT,
  review_scores_cleanliness FLOAT,
  review scores checkin FLOAT,
  review_scores_communication FLOAT,
  review scores location FLOAT,
  review_scores_value FLOAT,
  reviews per month FLOAT
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','
STORED AS TEXTFILE
TBLPROPERTIES ("skip.header.line.count"="1");
LOAD DATA INPATH '/salmah/hive/airbnb/LA Listings.csv' INTO TABLE la listings;
select * from la_listings limit 5;
```

CREATE TABLE la listings (

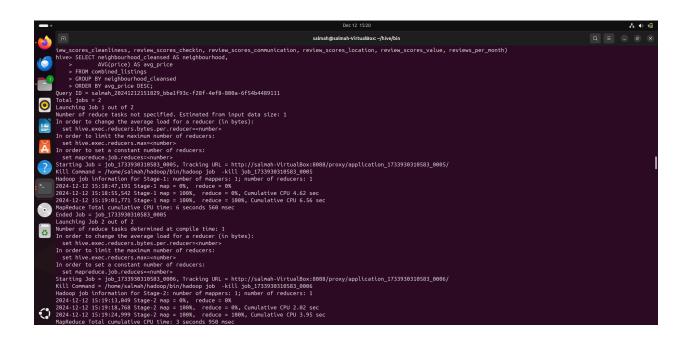
```
CREATE TABLE ny_listings (
  listing id STRING,
  name STRING,
  host id STRING,
  host name STRING,
  host response rate STRING,
  host_is_superhost STRING,
  host_total_listings_count INT,
  street STRING,
  city STRING,
  neighbourhood cleansed STRING,
  state STRING,
  country STRING,
  latitude FLOAT,
  longitude FLOAT,
  property_type STRING,
  room type STRING,
  accommodates INT,
  bathrooms FLOAT.
  bedrooms FLOAT.
  amenities STRING,
  price FLOAT,
  minimum nights INT,
  maximum_nights INT,
  availability 365 INT,
  calendar last scraped STRING,
  number of reviews INT,
  last_review_date STRING,
  review_scores_rating FLOAT,
  review_scores_accuracy FLOAT,
  review scores cleanliness FLOAT,
  review_scores_checkin FLOAT,
  review scores communication FLOAT,
  review_scores_location FLOAT,
  review scores value FLOAT,
  reviews_per_month FLOAT
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','
STORED AS TEXTFILE
TBLPROPERTIES ("skip.header.line.count"="1");
LOAD DATA INPATH '/salmah/hive/airbnb/NY_Listings.csv' INTO TABLE ny_listings;
```

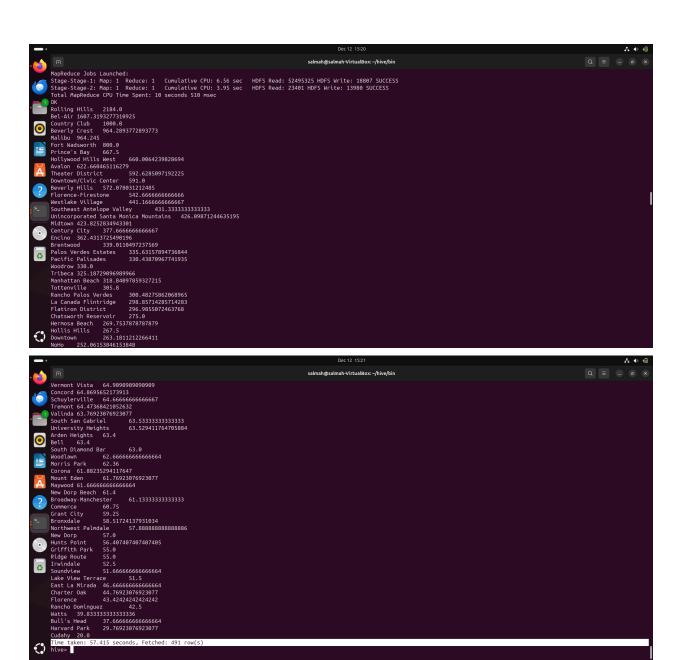
COMBINE LA AND NY

CREATE TABLE combined_listings AS SELECT * FROM la_listings UNION ALL SELECT * FROM ny_listings;

AREA PRICING

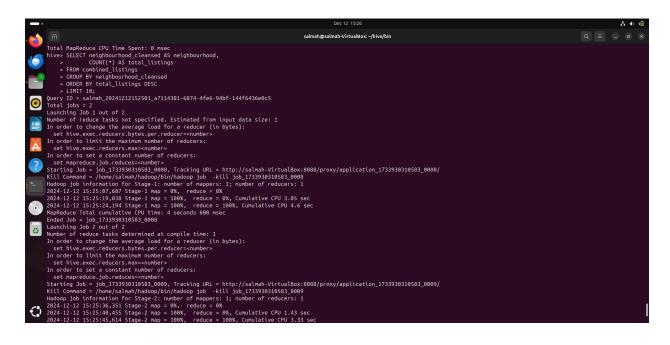
SELECT neighbourhood_cleansed AS neighbourhood, AVG(price) AS avg_price FROM combined_listings GROUP BY neighbourhood_cleansed ORDER BY avg_price DESC;

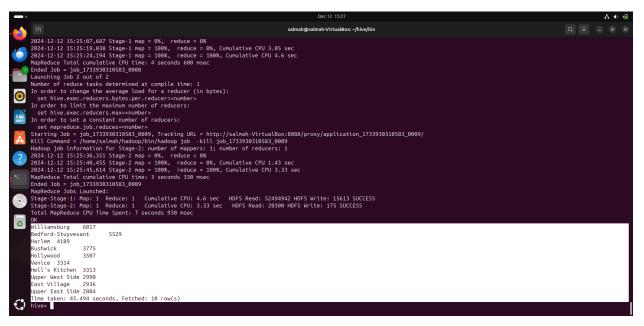




TOP CITY RENTAL

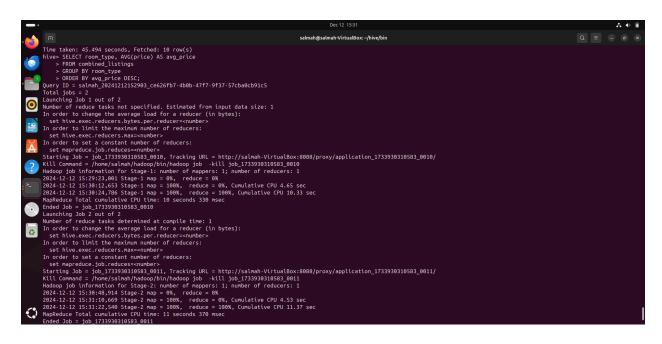
SELECT neighbourhood_cleansed AS neighbourhood, COUNT(*) AS total_listings FROM combined_listings GROUP BY neighbourhood_cleansed ORDER BY total_listings DESC LIMIT 10;

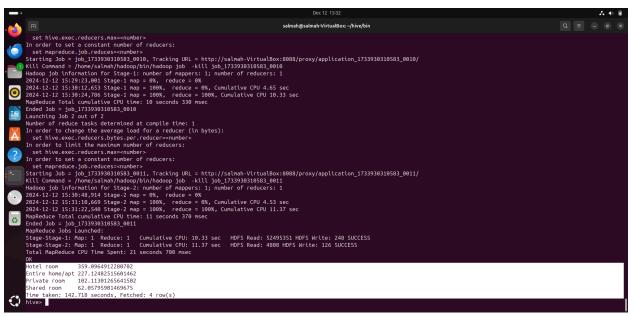




ROOM PRICE BY TYPE

SELECT room_type, AVG(price) AS avg_price FROM combined_listings GROUP BY room_type ORDER BY avg_price DESC;





SET hive.execution.engine=tez;

SET tez.am.resource.memory.mb=2048;

SET tez.am.dag.submit.time.timeout=60000;

SET hive.tez.container.size=2048;

SET tez.runtime.io.sort.mb=1024;