```
hadoop fs -mkdir /user/training/RealEstate

hadoop fs -put /home/training/Desktop/house_apartment_cleaned_data.csv
/user/training/Realestate

hadoop fs -ls /user/training/RealEstate

hive>CREATE TABLE house_apartment (

  locality STRING,

  type_of_property STRING,

  subtype_of_property STRING,

  price INT,

  no_of_rooms INT,

  open_fire INT,

  terrace INT,

  garden INT,

  swimming_pool INT,

  state_of_building STRING,

  construction_year INT

)

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

STORED AS TEXTFILE;
```
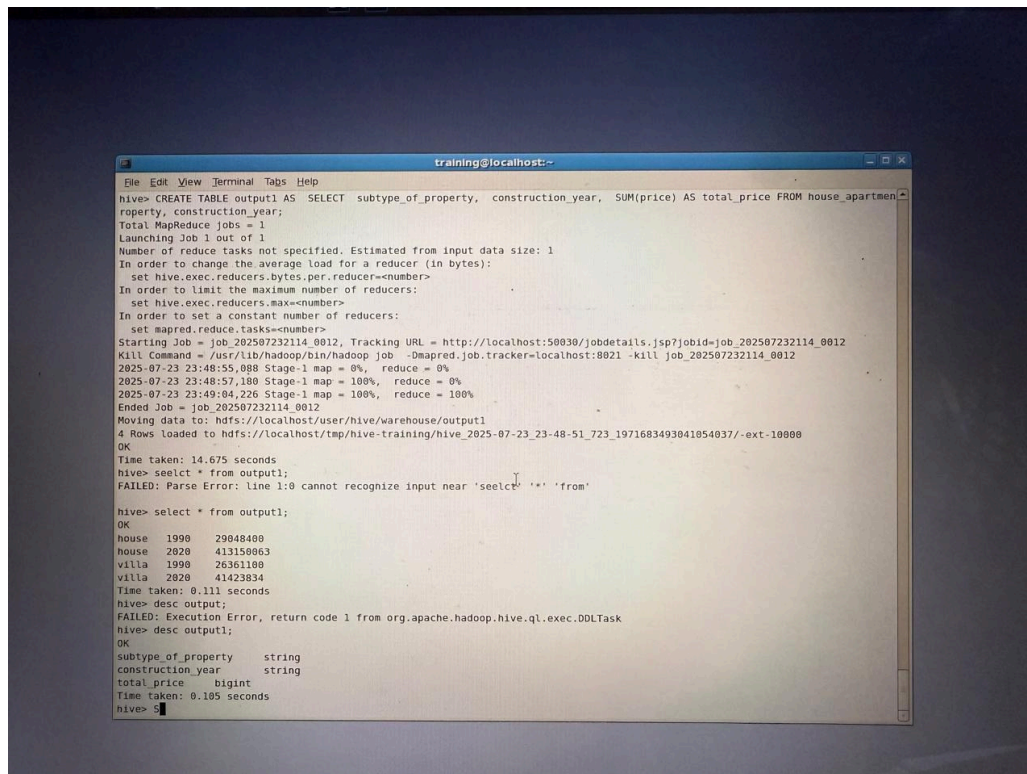
hive> load data inpath 'RealEstate/house_apartment_cleaned_data.csv into table house_apartment

hive> select * from house_apartment

Que 11) **What is the all total price of villa and house and find the diffrenece between the 1990 and 2020**

SELECT subtype_of_property, construction_year, SUM(price) AS total_price FROM house_apartment WHERE subtype_of_property IN ('house', 'villa') AND construction_year IN (1990, 2020) GROUP BY subtype_of_property, construction_year

SELECT SUM(CASE WHEN construction_year = 1990 THEN price ELSE 0 END) AS total_price_1990, SUM(CASE WHEN construction_year = 2020 THEN price ELSE 0 END) AS total_price_2020, ABS(SUM(CASE WHEN construction_year = 2020 THEN price ELSE 0 END) - SUM(CASE WHEN construction_year = 1990 THEN price ELSE 0 END)) AS price_difference_2020_vs_1990 FROM house_apartment WHERE subtype_of_property IN ('house', 'villa') AND construction_year IN (1990, 2020);

```
training@localhost:~
File Edit View Terminal Tabs Help
OK
subtype_of_property      string
construction_year        string
total_price    bigint
Time taken: 0.105 seconds
hive> CREATE TABLE output2 AS SELECT SUM(CASE WHEN construction_year = 1990 THEN price ELSE 0 END) AS total_price_1990, SUM(CA
SE WHEN construction_year = 2020 THEN price ELSE 0 END) AS total_price_2020, ABS(SUM(CASE WHEN construction_year = 2020 THEN p
rice ELSE 0 END) - SUM(CASE WHEN construction_year = 1990 THEN price ELSE 0 END)) AS price_difference_2020_vs_1990 FROM house_
apartment WHERE subtype_of_property IN ('house', 'villa') AND construction_year IN (1990, 2020);
Total MapReduce jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapred.reduce.tasks=<number>
Starting Job = job_202507232114_0013, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_202507232114_0013
Kill Command = /usr/lib/hadoop/bin/hadoop job  -Dmapred.job.tracker=localhost:8021 -kill job_202507232114_0013
2025-07-23 23:53:18,963 Stage-1 map = 0%,   reduce = 0%
2025-07-23 23:53:20,063 Stage-1 map = 100%,  reduce = 0%
2025-07-23 23:53:27,098 Stage-1 map = 100%,  reduce = 33%
2025-07-23 23:53:28,104 Stage-1 map = 100%,  reduce = 100%
Ended Job = job_202507232114_0013
Moving data to: hdfs://localhost/user/hive/warehouse/output2
1 Rows loaded to hdfs://localhost/tmp/hive-training/hive_2025-07-23_23-53-16_541_7165875961096876991/-ext-10000
OK
Time taken: 12.658 seconds
hive> select * from output2;
OK
55409500        454573897       399164397
Time taken: 0.094 seconds
hive> desc output2;
OK
total_price_1990        bigint
total_price_2020        bigint
price_difference_2020_vs_1990   bigint
Time taken: 0.061 seconds
hive>
```

Que 12) **Total no. of house to renovate and all renovate belong to which year**

select count(*) as Total_toRenovate from house_apartment where type_of_property = 'house' and state_of_building = 'to renovate';

select subtype_of_property, construction_year from house_apartment where type_of_property = 'house' and state_of_building = 'to renovate' and construction_year != 'None';

```
training@localhost:~
File  Edit  View  Terminal  Tabs  Help
2025-07-23 23:53:20,063 Stage-1 map = 100%,   reduce = 0%
2025-07-23 23:53:27,098 Stage-1 map = 100%,   reduce = 33%
2025-07-23 23:53:28,104 Stage-1 map = 100%,   reduce = 100%
Ended Job = job_202507232114_0013
Moving data to: hdfs://localhost/user/hive/warehouse/output2
1 Rows loaded to hdfs://localhost/tmp/hive-training/hive_2025-07-23_23-53-16_541_7165875961096876991/-ext-10000
OK
Time taken: 12.658 seconds
hive> select * from output2;
OK
55409500        454573897        399164397
Time taken: 0.094 seconds
hive> desc output2;
OK
total_price_1990        bigint
total_price_2020        bigint
price_difference_2020_vs_1990   bigint
Time taken: 0.061 seconds
hive> select count(*) as Total_toRenovate from house_apartment where type_of_property = 'house' and state_of_building = 'to reno
vate';
Total MapReduce jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapred.reduce.tasks=<number>
Starting Job = job_202507232114_0014, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_202507232114_0014
Kill Command = /usr/lib/hadoop/bin/hadoop job  -Dmapred.job.tracker=localhost:8021 -kill job_202507232114_0014
2025-07-23 23:55:50,305 Stage-1 map = 0%,   reduce = 0%
2025-07-23 23:55:51,312 Stage-1 map = 100%,   reduce = 0%
2025-07-23 23:55:58,346 Stage-1 map = 100%,   reduce = 33%
2025-07-23 23:55:59,354 Stage-1 map = 100%,   reduce = 100%
Ended Job = job_202507232114_0014
OK
2982
Time taken: 11.609 seconds
hive>
```

```
mixed use building       1976
house    1952
apartment block 1830
house    1939
house    1938
house    1961
house    1930
house    1960
house    1951
country cottage 1940
house    1919
house    1950
house    1978
house    1933
house    1959
house    1930
house    1956
mixed use building       1950
house    1965
villa    1910
house    1900
house    1935
country cottage 1932
house    1958
apartment block 1915
farmhouse        1850
house    1920
villa    1978
villa    1997
apartment block 1930
house    1969
house    1948
house    1958
bungalow         1977
house    1850
house    1952
house    1784
house    1932
house    1937
house    1930
```