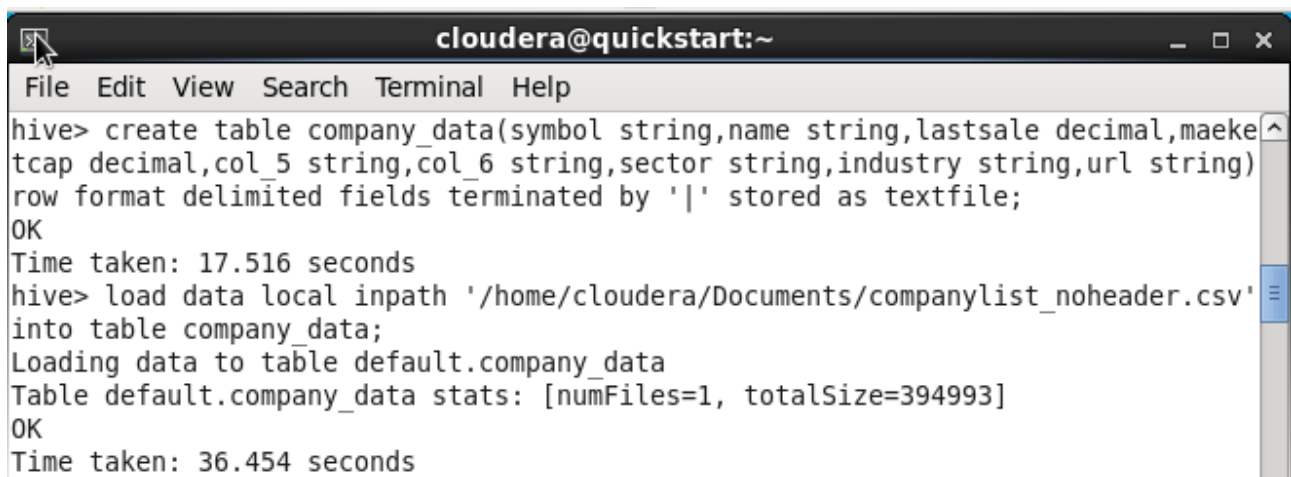**1.Write a query to calculate the maximum number of shares traded in 2009**

i)companywise
ii)industrywise
iii)sectorwise

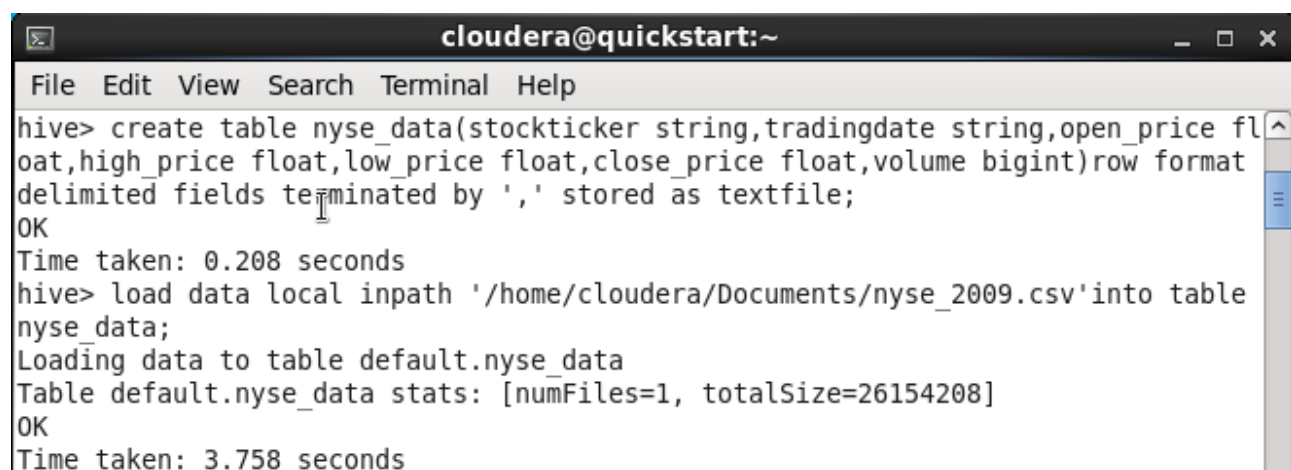**STEPS :**
a)create a table for company data and nyse data

b)load data to the table

c)write a query by

Before using JOIN Query we will set that command SET hive.auto.convert.join=false

 i)companywise

```
cloudera@quickstart:~
File  Edit  View  Search  Terminal  Help
[cloudera@quickstart ~]$ hive

Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.p
roperties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> SET hive.auto.convert.join=false
    > ;
hive> select cd.name,MAX(nd.volume) from company_data cd JOIN nyse_data nd ON cd
.symbol = nd.stockticker where tradingdate between '01/01/2009' AND '31/12/2009'
 group by name limit 50;
Query ID = cloudera_20210611042626_a70c268a-1ef5-487f-8d2b-17b56dd86f9c
Total jobs = 2
```



```
cloudera@quickstart:~
File  Edit  View  Search  Terminal  Help
3D Systems Corporation   291000
3M Company        11541100
A.H. Belo Corporation    2205300
AAR Corp.         2193900
ABB Ltd 10402700
ABM Industries Incorporated     2040100
AGCO Corporation         8722300
AGL Resources, Inc.     2129500
AK Steel Holding Corporation    21113500
ALLIANCEBERNSTEIN INCOME FUND INC        1941000
AMERIPRISE FINANCIAL SERVICES, INC.     34678100
AMN Healthcare Services Inc     1142500
AMREP Corporation        57800
AMTEK, Inc.      3156300
ANN INC.         10452300
AOL Inc.         13092100
ASA Gold and Precious Metals Limited    319800
AT&T Inc.        61246200
AU Optronics Corp        11996500
AVX Corporation 1268700
AZZ Incorporated         1511300
Aaron&#39;s, Inc.         6602700
Abbott Laboratories      26743800
Abercrombie & Fitch Company      13615800
```

ii)Industrywise

```
                    cloudera@quickstart:~
File  Edit  View  Search  Terminal  Help
hive> select cd.industry,MAX(nd.volume) from company_data cd JOIN nyse_data nd O
N cd.symbol = nd.stockticker where tradingdate between '01/01/2009' AND '31/12/2
009' group by industry limit 50;
Query ID = cloudera_20210611045454_e625bf35-626d-46f1-85e2-5380912c06a1
Total jobs = 2
Launching Job 1 out of 2
```

```
                    cloudera@quickstart:~
File  Edit  View  Search  Terminal  Help
Accident &Health Insurance       46322900
Advertising       20133400
Aerospace         43549300
Agricultural Chemicals  35457100
Air Freight/Delivery Services    70268096
Aluminum          2823700
Apparel 25609600
Auto Manufacturing       541015000
Auto Parts:O.E.M.        103526200
Automotive Aftermarket  14966300
Beverages (Production/Distribution)     62086900
Biotechnology: Commercial Physical & Biological Resarch 90581900
Biotechnology: Electromedical & Electrotherapeutic Apparatus    51810700
Biotechnology: Laboratory Analytical Instruments        7938000
Books   2023400
Broadcasting      49699400
Building Materials       107831400
Building Products        3662100
Building operators       20712000
Business Services        142985300
Catalog/Specialty Distribution  385400
Clothing/Shoe/Accessory Stores  34168600
Coal Mining       25003000
Commercial Banks        143028496
```

iii)sectorwise

```
                    cloudera@quickstart:~
File  Edit  View  Search  Terminal  Help
hive> select cd.sector,MAX(nd.volume) from company_data cd JOIN nyse_data nd ON
cd.symbol = nd.stockticker where tradingdate between '01/01/2009' AND '31/12/200
9' group by sector limit 50;
Query ID = cloudera_20210611052424_4221490a-1260-47b5-8e6b-ea6aa432c57f
Total jobs = 2
```

```
Basic Industries     125062800
Capital Goods   541015000
Consumer Durables      28364200
Consumer Non-Durables   147438000
Consumer Services       144189000
Energy  752731008
Finance 1226792000
Health Care     210463008
Miscellaneous   142985300
Public Utilities        244426200
Technology      163101600
Transportation  70268096
n/a     43881700
```