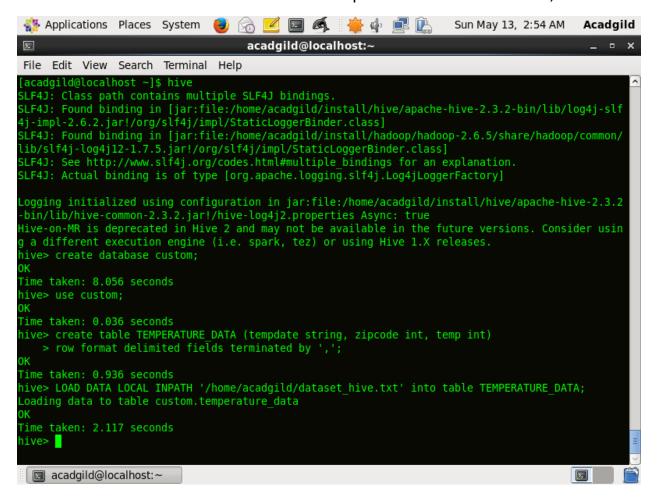
Creating and using a database:

Create database 'custom'; Use 'custom';

Creating the specified table:

Create table temperature_data (tempdate string, zipcode int, temp int) row format delimited filelds terminated by ',';

Use command LOAD DATA LOCAL INPATH '<path>' into <table-name>;



Check contents of the table after loading data by using command:

Select * form temperature_data

```
💸 Applications Places System 🎒 🍙 🗾 📵 🐗 🏺 🌵 🚉 🖺
                                                                     Sun May 13, 2:54 AM
                                                                                         Acadgild
                                    acadgild@localhost:~
File Edit View Search Terminal Help
Time taken: 0.936 seconds
nive> LOAD DATA LOCAL INPATH '/home/acadgild/dataset hive.txt' into table TEMPERATURE DATA;
oading data to table custom.temperature data
nive> select * from TEMPERATURE DATA;
10-01-1990
               123112 10
14-02-1991
10-03-1990
.0-01-1991
               302918
2-02-1990
               384902
10-01-1991
               123112
14-02-1990
               283901 12
10-03-1991
               302918 23
10-01-1990
12-02-1991
               384902 10
10-01-1993
4-02-1994
               283901
10-03-1993
10-01-1994
               302918
2-02-1991
               384902
10-01-1991
               123112 11
14-02-1990
               283901 12
10-03-1991
10-01-1990
               302918 23
12-02-1991
               384902 10
acadgild@localhost:~
```

To Fetch date and temperature from temperature_data where zip code is greater than 300000 and less than 399999 use the where keyword to filter the records by using the condition as mentioned

```
hive> select tempdate, temp from TEMPERATURE_DATA where (zipcode>300000 and zipcode<399999);
```

I am selecting tempdate and temp because I want only those fields in the output.

Output:

```
💸 Applications Places System 🕑 🙈 🗾 国 🝕 🌞 🐠 🚅 🖺
                                                                   Sun May 13, 3:08 AM
                                                                                        Acadgild
                                   acadgild@localhost:~
File Edit View Search Terminal Help
nive> select tempdate, temp from TEMPERATURE DATA where (zipcode>300000 and zipcode<399999);
10-03-1990
10-01-1991
2-02-1990
10-03-1991
10-01-1990
2-02-1991
0-03-1993
0-01-1994
2-02-1991
10-03-1991
0-01-1990
2-02-1991
nive>
```

To find maximum temperature corresponding to every year from temperature_data table we have to group tempdate column and find the maximum temperature from each group.

We will use built in function substr() for returning a part of the tempdate string which will give the year and max() function to find the max vaue form temp column. Use the below command.

```
hive> select substr(tempdate, 7), max(temp) from temperature_data group by substr(tempdate, 7); \stackrel{\triangle}{}
```

Output:

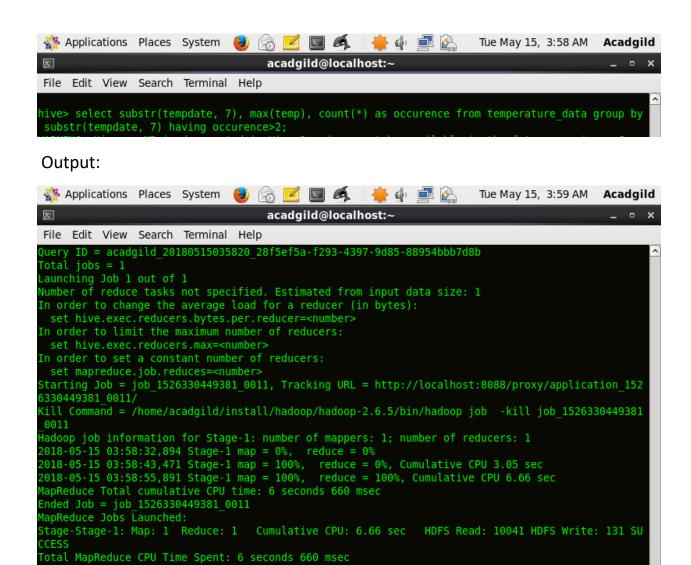
```
Ended Job = job_1526330449381_0007

MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.84 sec HDFS Read: 9051 HDFS Write: 167 SUC CESS

Total MapReduce CPU Time Spent: 6 seconds 840 msec

OK
1990 23
1991 22
1993 16
1994 23
Time taken: 61.989 seconds, Fetched: 4 row(s)
hive>
```

To Calculate maximum temperature from temperature_data table corresponding to those years which have at least 2 entries in the table, I add the having clause which is used to filter the grouped output. Here I assign the number of entries to occerence variable which will store the output of the coun() function and having condition will check whether the number of entries are more than 2.



1990

Time taken: 37.85 seconds, Fetched: 2 row(s)

acadgild@localhost:~

Create view <view name> as <query>

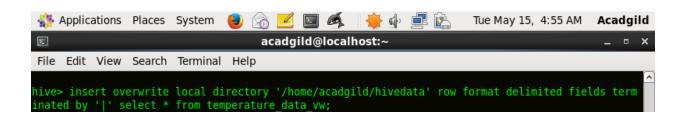
So temperature_data_vw is my view name and using my last query to store in the view.

```
Applications Places System 

Acadgild

Acadgild
```

To export content to a local file system with '|' delimiters use command:



Lets check the contents of our hivedata local directory: