# **Assignment 1**

### TASK 1

1) Database is created and displayed

### CREATE DATABASE custom;

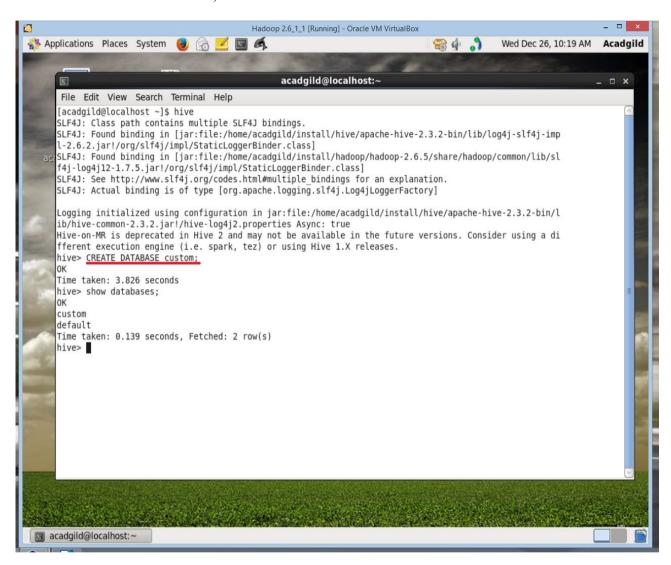


Table is created and the data is loaded from the local file system

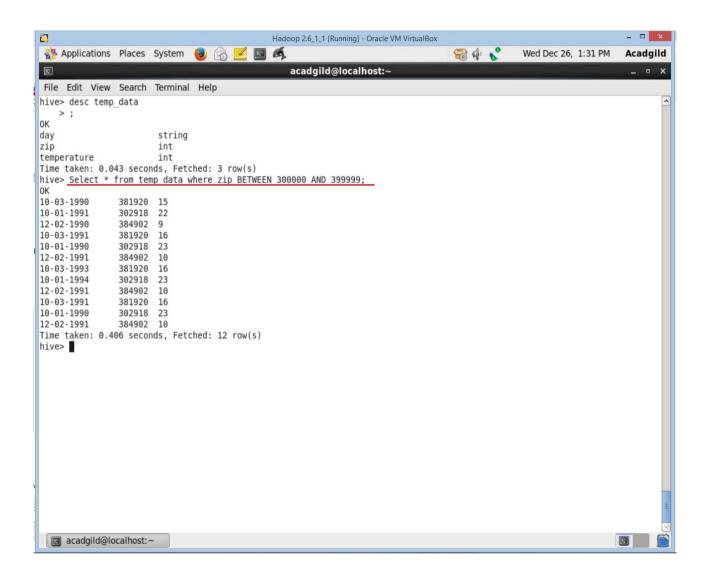
```
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                                                Hadoop 2.6_1_1 [Running] - Oracle VM VirtualBox
Applications Places System
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                                                                                      (a) d)
                                                                                                     Wed Dec 26, 12:27 PM
                                                                                                                          Acadgild
                                                    acadgild@localhost:~
File Edit View Search Terminal Help
hive> create table temp data (day String, zip int,temperature int) row format delimited fields terminated by ',';
Time taken: 0.071 seconds
hive> load data local inpath '/home/acadgild/Desktop/batch1/dataSet.txt' into table temp data;
Loading data to table default.temp_data
Time taken: 0.38 seconds
hive> show tables;
temp data
test
Time taken: 0.028 seconds, Fetched: 2 row(s)
hive> show tables;
OK
temp_data
test
Time taken: 0.025 seconds, Fetched: 2 row(s) hive> select * from temp data;
10-01-1990
                123112 10
14-02-1991
                283901 11
10-03-1990
                381920
10-01-1991
                302918
                        22
12-02-1990
                384902
10-01-1991
                       11
                123112
                283901 <u>I</u>12
381920 16
14-02-1990
10-03-1991
10-01-1990
                302918
                        23
12-02-1991
                384902
                        10
10-01-1993
                123112 11
14-02-1994
                283901
                        12
10-03-1993
                381920
                        16
10-01-1994
                302918
                       23
12-02-1991
                384902 10
10-01-1991
                123112
                        11
14-02-1990
                283901
                       12
10-03-1991
                381920
                        16
10-01-1990
                302918
                        23
                384902
12-02-1991
                        10
 acadgild@localhost:~
```

## TASK 1

a) Fetch date and temperature from temperature\_data where zip is greater than 300000 and less than 399999.

### **HIVE Command:**

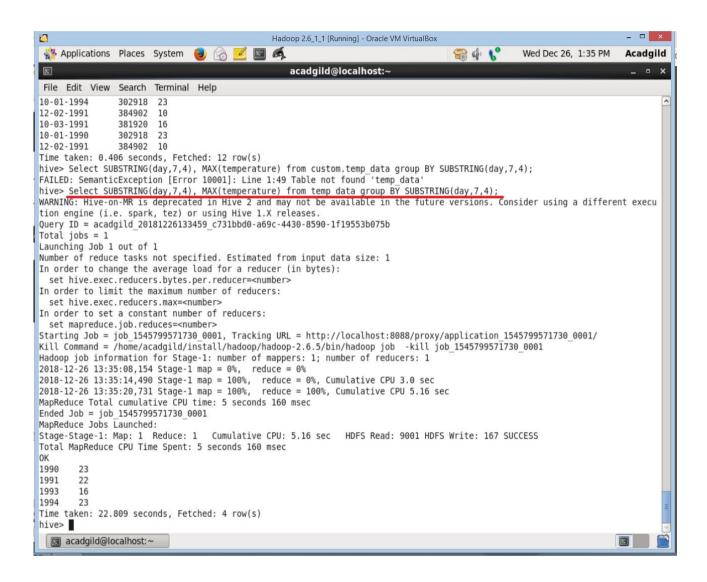
Select \* From temp data where zip BETWEEN 300000 AND 399999;



b) maximum temperature corresponding to every year from temp data table is

#### **HIVE Command:**

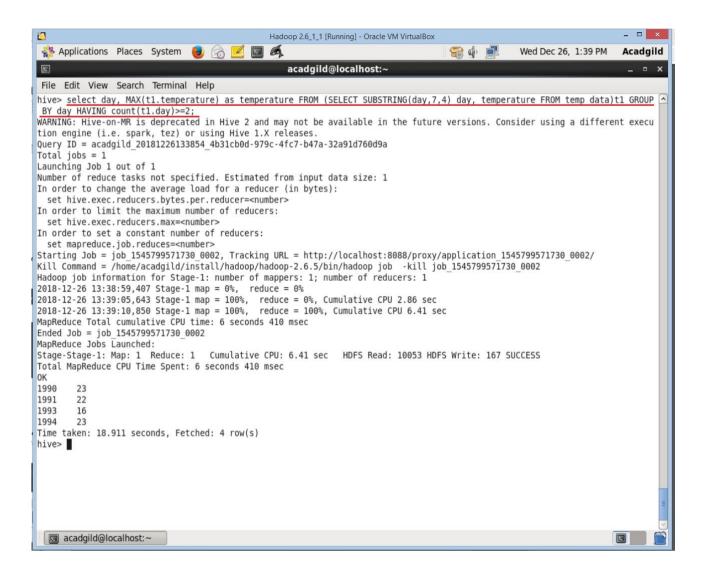
SELECT SUBSTRING(day,7,4), MAX(temperature) FROM temperature\_data GROUP BY SUBSTRING(day,7,4);



c) Maximum temperature from temperature\_data table corresponding to those years which have at least 2 entries in the table.

HIVE Command:

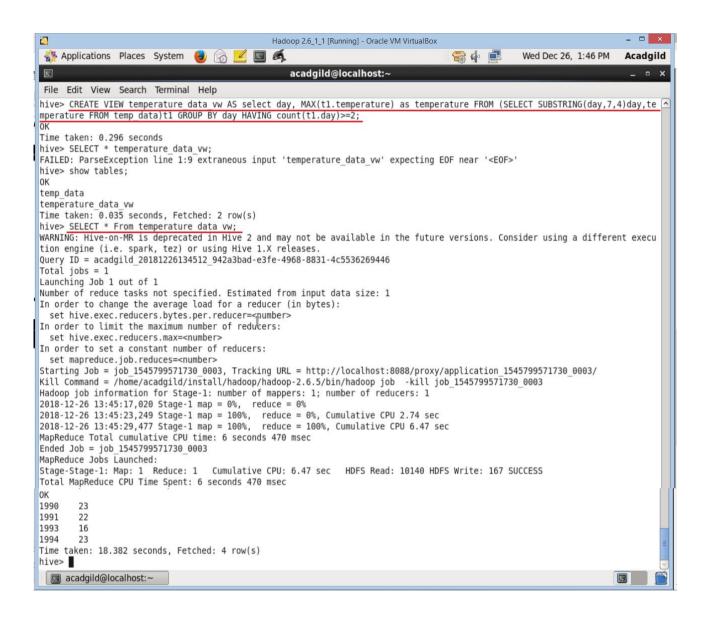
SELECT day, MAX(t1.temperature) as temperature FROM (SELECT SUBSTRING(day,7,4) day, temperature FROM temp\_data)t1 GROUP BY full\_date HAVING count(t1.day)>=2;



d) Create a view on the top of last query, name it temperature data vw.

#### **HIVE Command:**

CREATE VIEW temperature\_data\_vw AS SELECT day, MAX(t1.temperature) as temperature FROM (SELECT SUBSTRING(day,7,4) day, temperature FROM temp\_data)t1 GROUP BY day HAVING count(t1.day)>=2;



e) Export contents from temperature\_data\_vw to a file in local file system, such that each file is '|' delimited.

**HIVE Command:** 

#### INSERT OVERWRITE LOCAL DIRECTORY

'/home/acadgild/Desktop/batch1/temperature\_data\_vw.txt' ROW FORMAT DELIMITED FIELDS TERMINATED BY '|' SELECT \* FROM temperature\_data\_vw;

