Task 1:

a. Creating database named custom in HIVE.

```
Time taken: 1.547 seconds
hive> show databases;
OK
acadgilddb
default
Time taken: 0.106 seconds, Fetched: 2 row(s)
hive> create database custom;
OK
Time taken: 0.383 seconds
hive> use custom;
OK
```

b. Creating table named Temparature_data inside Custom database having mentioned fields.

c. Loading dataset table into customer table in hive from local fs.

hive> LOAD DATA LOCAL INPATH '/home/acadgild/Desktop/a/dataset_Hive.txt' into table custom.temperature_data; Loading data to table custom.temperature_data
OK

Time taken: 3.999 seconds

```
hive> select * from temperature data;
10-01-1990
                     123112
                                1Θ
                                 11
14-02-1991
                      283901
10-03-1990
                      381920
                                  15
10-01-1991
                      302918
                                  22
                     384902
12-02-1990
                     123112
10-01-1991
                                  11
14-02-1990
                     283901
                                  12
10-03-1991
                     381920
                                 16
10-01-1990
                     302918 23
12-02-1991
                     384902
10-01-1993
                     123112 11
                    283901 12
14-02-1994
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

12-02-1991 384902 10
```

Task 2:

a. Fetch date and temperature from **temperature_data** where zip code is greater than 300000 less than 399999.

```
hive> select tdate, temperature from temperature data where zipcode > 300000 and zipcode < 399999:
0K
10-03-1990
10-01-1991
12-02-1990
10-03-1991
10-01-1990
12-02-1991
10-03-1993
10-01-1994
                23
12-02-1991
                1Θ
10-03-1991
                16
10-01-1990
                23
12-02-1991
                1Θ
Time taken: 1.871 seconds, Fetched: 12 row(s)
```

b. Calculate maximum temperature corresponding to every year from **temperature data** table.

c. Calculate maximum temperature corresponding to every year from **temperature_data** table corresponding to those years which have at least 2 entries in the table.

```
hive> select SUBSTR(tdate,7,10) as year,MAX(temperature) from temperature_data group by substr(tdate,7,10) having count(substr(tdate,7,10)) >= 2;
WARMING: Hive=on=MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, te2) or using Hive 1.X releases.
Query ID = acadgild_20180507095841_78065f40-fc68-49e2-8dc2-8a5f6e5f40f6
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
set hive.exec.reducers,bytes.per.reducer=enumber>
In order to limit the maximum number of reducers:
set hive.exec.reducers.bytes.per.reducer=enumber>
In order to set a constant number of reducers:
set mapreduce.job.reduces=number>
Starting Job = job 1525608425288_0014, Tracking URL = http://localhost:8088/proxy/application_1525608425288_0014/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job _-kill job_1525608425288_0014/
Hadoop job information for Stage-1 map = 0%, reduce = 0%, Cumulative CPU 6.2 sec
2018-05-07_09:59:50,5085_Stage-1 map = 100%, reduce = 0%, Cumulative CPU 11.44 sec
2018-05-07_09:59:59:46,020_Stage-1 map = 100%, reduce = 0%, Cumulative CPU 11.44 sec
2018-05-07_09:59:59:46,020_Stage-1 map = 100%, reduce = 0%, Cumulative CPU 12.47 sec
MapReduce Total cumulative CPU time 12 seconds 470 msec
Ended Job = job 1525608425288_0014
MapReduce Total cumulative CPU time Spent: 12 seconds 470 msec
Ended Job = job 1525608425288_0014
MapReduce CPU Time Spent: 12 seconds 470 msec

In order to substance in the future of the future of the future spent: 12 seconds 470 msec

In order to substance in the future of the future of
```

d. Create a view on the top of last query, name it **temperature_data_vw**.

e. Export content from **temeperature_data_vw** to a file in local fs, such that each file is '|' delimited.