1. Fetch date and temperature from temperature_data where zip code is greater than

300000 and less than 399999.

```
hive> select dt, temperature from temperature_data where zipcode > 300000 and zipcode < 399999;
10-03-1990
10-01-1991
                22
12-02-1990
10-03-1991
10-01-1990
                23
12-02-1991
10-03-1993
                16
10-01-1994
                23
12-02-1991
10-03-1991
                16
10-01-1990
                23
12-02-1991
                10
Time taken: 3.788 seconds, Fetched: 12 row(s)
```

2. Calculate maximum temperature corresponding to every year from temperature_data table.

3. Calculate maximum temperature from temperature_data table corresponding to

years which have at least 2 entries in the table.

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

```
Fime taken: 4.212 seconds

nive> CREATE VIEW temperature_data_vw as select from_unixtime(unix_timestamp(dt ,'MM-DD-YYYY'), 'YYYY') , Max(temperature) from temperature_data group by from_unixtime(unix_timestamp(dt ,'MM-DD-YYYY'), 'YYYY') having count(from_unixtime(unix_timestamp(dt ,'MM-DD-YYYY'), 'YYYY')) >= 2;
    Time taken: 1.548 seconds
[hive> select * from temperature_data_vw;
WARNING: 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, tez) or using Hive 1.X releases.
Query ID = Disha_20170916230335_25458d57-ef21-41a2-a51f-ef8ddd148373
Total jobs = 1
 Notal 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=<number>
In order to limit the maximum number of reducers:
set hive.exec.reducers.max=<number>
Launching the set acceptant without of reducers:
 set nive.exec.reducers.max=<number>
In order to set a constant number of reducers:
set mapreduce.job.reduces==number>
Job running in-process (local Hadoop)
2017-09-16 23:03:39,434 Stage-1 map = 100%, reduce = 100%
 Ended Job = job_local1492575314_0003
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 2514 HDFS Write: 0 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
  1991
                     22
  1993
                     16
  Time taken: 3.84 seconds, Fetched: 4 row(s)
```

5. Export contents from temperature_data_vw to a file in local file system, such that

```
file is 'l' delimited.
  hive> INSERT OVERWRITE LOCAL DIRECTORY '/Users/Disha/temperature_data' ROW FORMAT DELIMITED FIELDS TERMINATED BY '|' SELECT * FROM tempe
  rature data vw:
 WARNING: 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, tez) or using Hive 1.X releases.

Query ID = Disha_20170916230802_c6327a80-b9e2-4abf-bbf5-128939f41a20
 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=<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 mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
 2017-09-16 23:08:05,599 Stage-1 map = 100%, reduce = 100% Ended Job = job_local1119667805_0005 Moving data to local directory /Users/Disha/temperature_data MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 4190 HDFS Write: 0 SUCCESS Total MapReduce CPU Time Spent: 0 msec
 Time taken: 3.557 seconds hive> ■
Chaitanyas-MacBook-Pro:∼ Disha$ mkdir temperature_data
Chaitanyas-MacBook-Pro:∼ Disha$ cd temperature_data
Chaitanyas-MacBook-Pro:temperature_data Disha$ pwd
```

```
/Users/Disha/temperature_data
Chaitanyas-MacBook-Pro:temperature_data Disha$ ls -lrt
rw-r--r-- 1 Disha staff 32 Sep 16 23:08 000000_0
Chaitanyas-MacBook-Pro:temperature_data Disha$ vi 000000_0
Chaitanyas-MacBook-Pro:temperature_data Disha$ cat 000000_0
1990|23
1991 | 22
1993 | 16
Chaitanvas-MacBook-Pro:temperature data Disha$
```