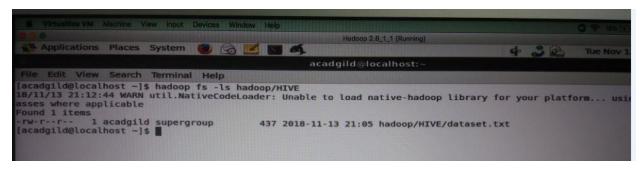
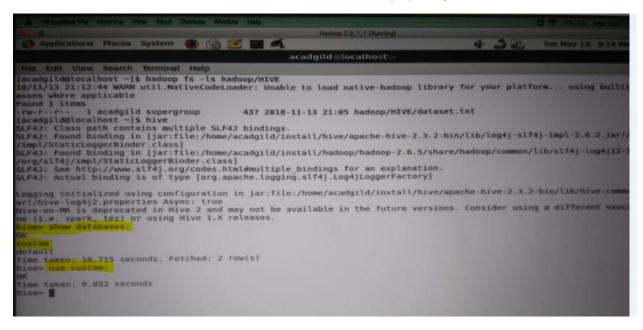
## Assignment\_8.1

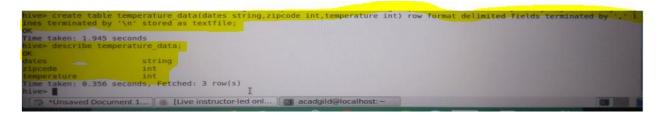
1. Copied the dataset file to hadoop on path /hadoop/HIVE/dataset.txt.



- 2. Started hive on command prompt by using command hive.
- 3. Created data custom using command 'create database custom'.
- 4. Verified that the database has been created successfully by using command show databases.



5. Created table temperature\_data in custom database using the command 'create table if not exists temperature\_data (dates string, zip\_code int,temperature int) row format delimited fields terminated by ',' lines terminated by '\n' stored as textfile;'



6. Inserted data into the table temperature\_data from hadoop using command load data inpath '/hadoop/HIVE/dataset' into table temperature\_data.

7. To fetch date and temperature from temperature\_data where zip code is greater than 300000 and less than 399999 used query 'select dates, temperature from temperature\_data where zipcode > 300000 and zipcode < 399999;'.

8. To calculate maximum temperature corresponding to every year from temperature\_data used query 'select year(from\_unixtime(unix\_timestamp(dates,'mm-dd-yyyy'))), max(temperature) from temperature\_data group by year(from\_unixtime(unix\_timestamp(dates,'mm-dd-yyyy')));' but due to some issue it gets stuck and does not move forward. Everytime I run this query it gets stuck and I am not able to proceed further.

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hive> select year(from unixtime(unix timestamp(dates, 'mm-dd-yyyy'))), max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyyy'))); max(temperature) from temperature data group by year(from unixtime(unix timestamp(dates, 'mm-dd-yyyyy))); max(temperature) from temperature data group by year(from unixtime(unixtime)); max(temperature) from temperature data group by year(from unixtime) from temperature data group by year(from unixti
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- 9. Below are the queries that can be used to generate the desired output. Due to the above issue I was not able to execute the below queries.
- 10. To calculate max temperature from temperature\_data table corresponding to those years which have at least 2 entries in the table used query 'select year(from\_unixtime(unix\_timestamp(dates,'mm-dd-yyyy'))), max(temperature) from temperature\_data group by year(from\_unixtime(unix\_timestamp(dates,'mm-dd-yyyy'))) having count(\*) > 1;'.
- 11. To create view on the top of last query with name temperature\_data\_vw used query 'create view temperature\_data\_vw as select year(from\_unixtime(unix\_timestamp(dates,'mm-dd-yyyy'))), max(temperature) from temperature\_data group by year(from\_unixtime(unix\_timestamp(dates,'mm-dd-yyyy'))) having count(\*) > 1;'.
- 12. To export the contents from temperature\_data\_vw to a file in local file system, such that each file is '|' delimited used the query 'insert overwrite local directory '/home/acadgild/HIVE/output' row format delimited fields terminated by '|' select \* from temperature\_data\_vw;'