Assignment-8.1

Task 1

Create a database named 'custom'.

Create a table named temperature_data inside custom having below fields:

1. date (mm-dd-yyyy) format

2. zip code

3. temperature

The table will be loaded from comma-delimited file.

Load the dataset.txt (which is ',' delimited) in the table.

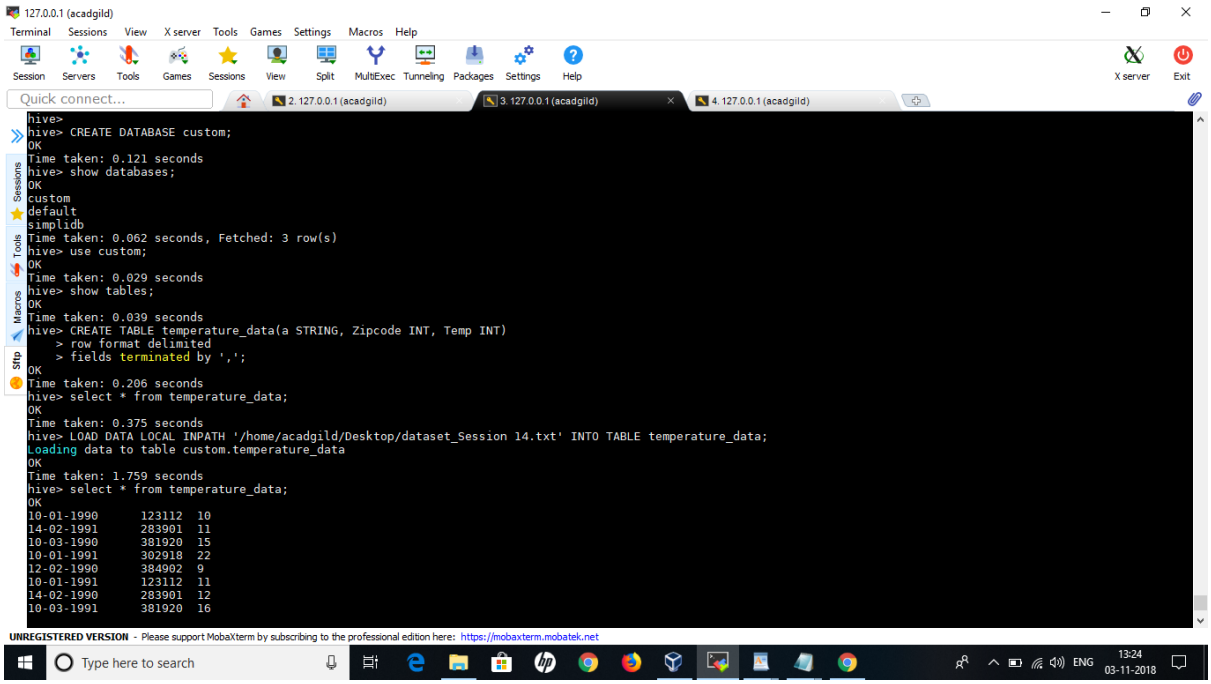
Solution: *CREATE DATABASE custom;*

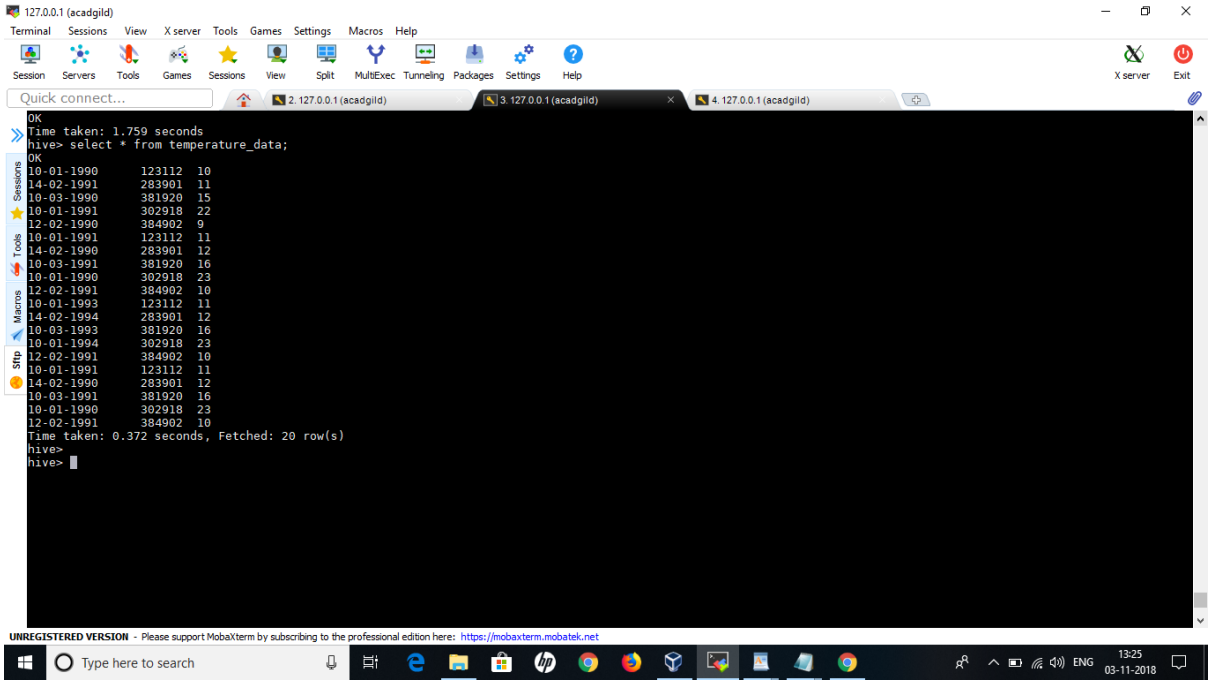
CREATE TABLE temperature_data(a STRING, Zipcode INT, Temp INT)

row format delimited

fields terminated by ',';

LOAD DATA LOCAL INPATH '/home/acadgild/Desktop/dataset_Session 14.txt' INTO TABLE temperature_data;

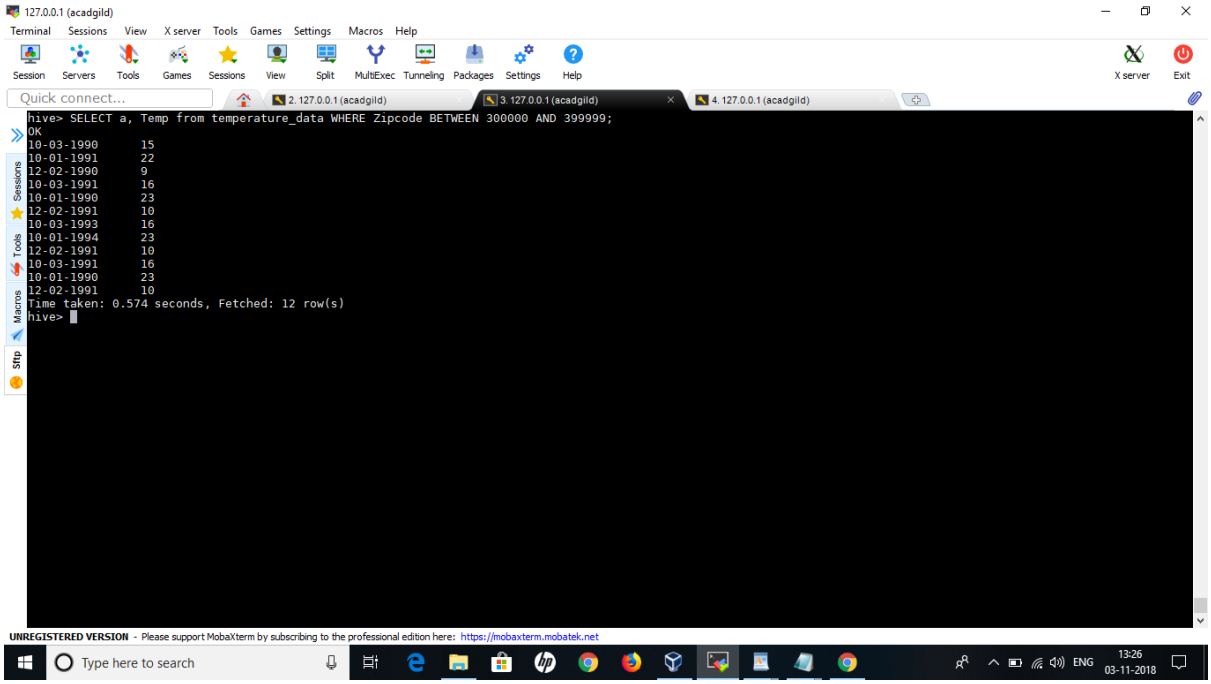




Task 2

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

Solution: *SELECT a, Temp from temperature_data WHERE Zipcode BETWEEN 300000 AND 399999;*



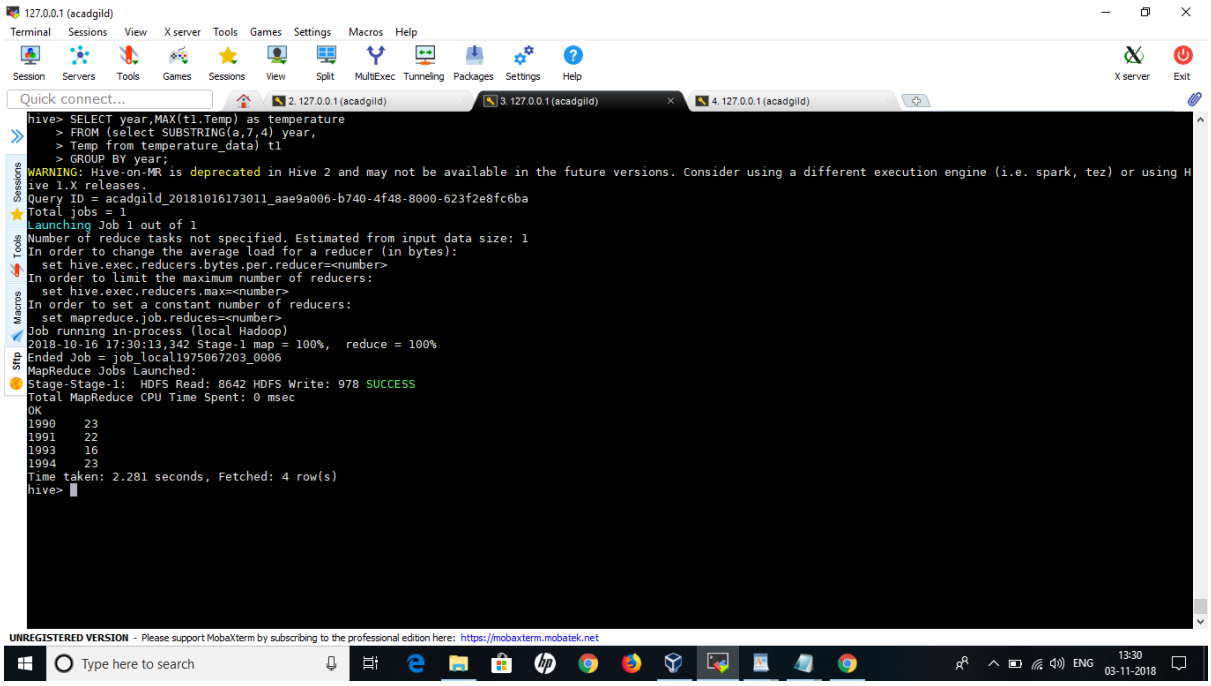
● Calculate maximum temperature corresponding to every year from temperature_data table.

Solution: *SELECT year,MAX(t1.Temp) as temperature*

FROM (select SUBSTRING(a,7,4) year,

Temp from temperature_data) t1

GROUP BY year;



● Calculate maximum temperature from temperature_data table corresponding to those years which have at least 2 entries in the table.

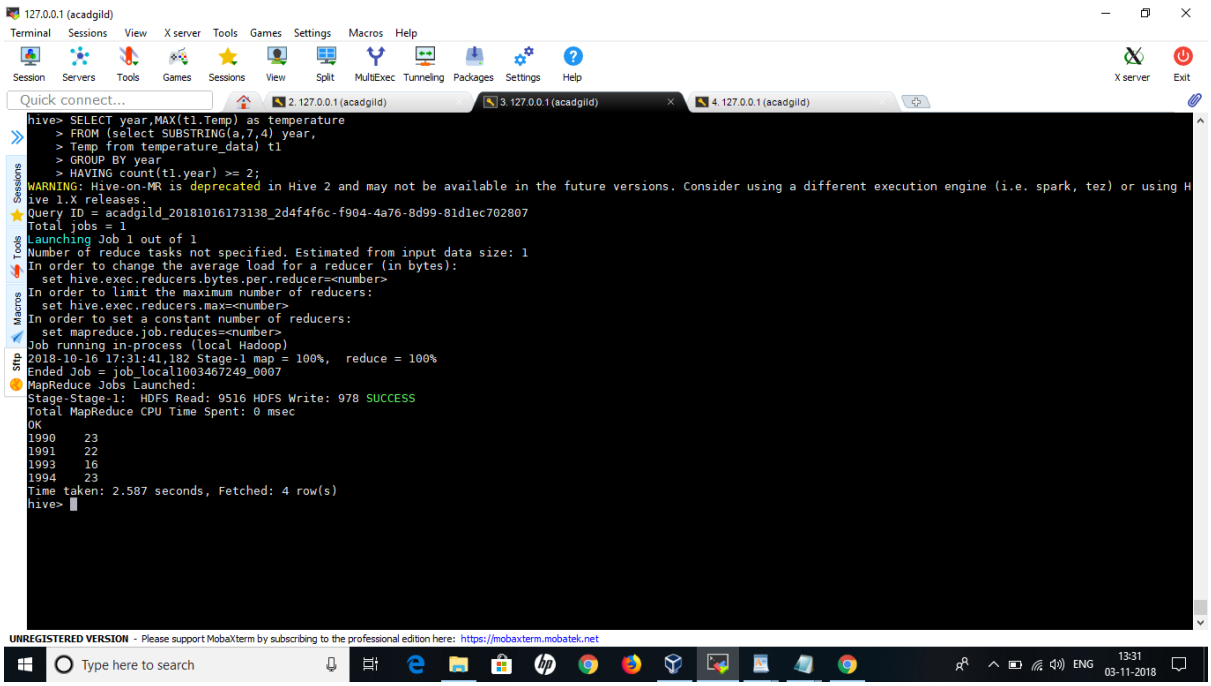
Solution: *SELECT year,MAX(t1.Temp) as temperature*

FROM (select SUBSTRING(a,7,4) year,

Temp from temperature_data) t1

GROUP BY year

HAVING count(t1.year) >= 2;



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

Solution: *CREATE VIEW temperature_data_vw AS*

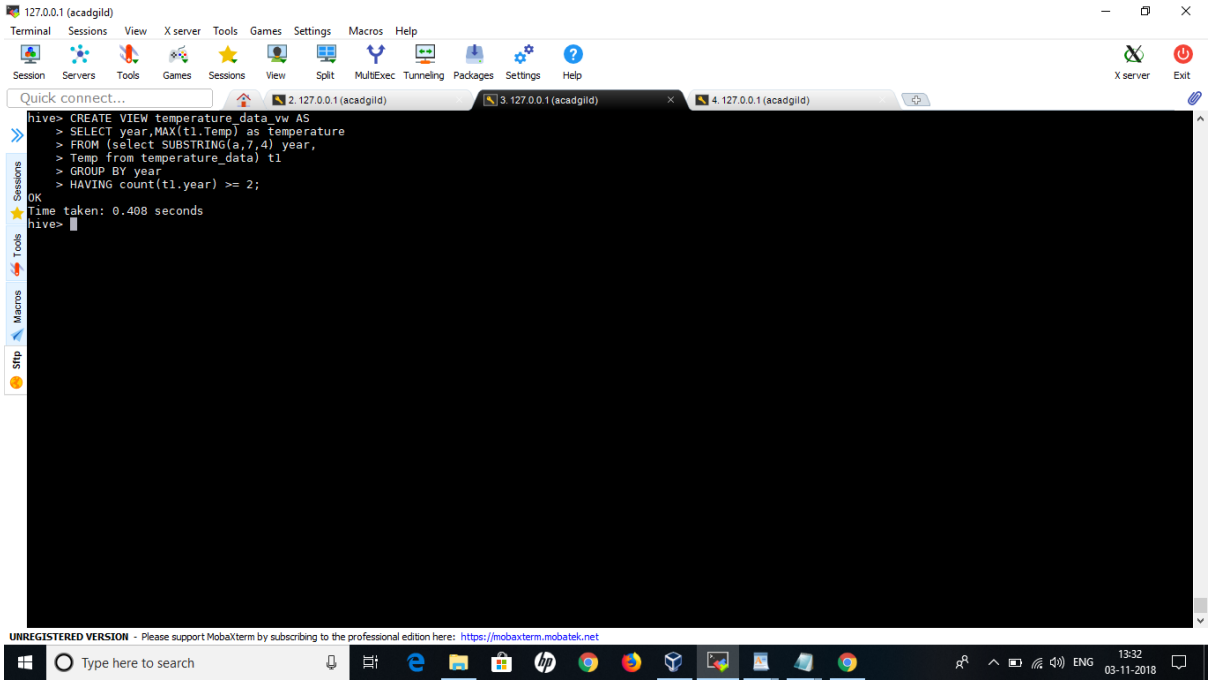
SELECT year,MAX(t1.Temp) as temperature

FROM (select SUBSTRING(a,7,4) year,

Temp from temperature_data) t1

GROUP BY year

HAVING count(t1.year) >= 2;



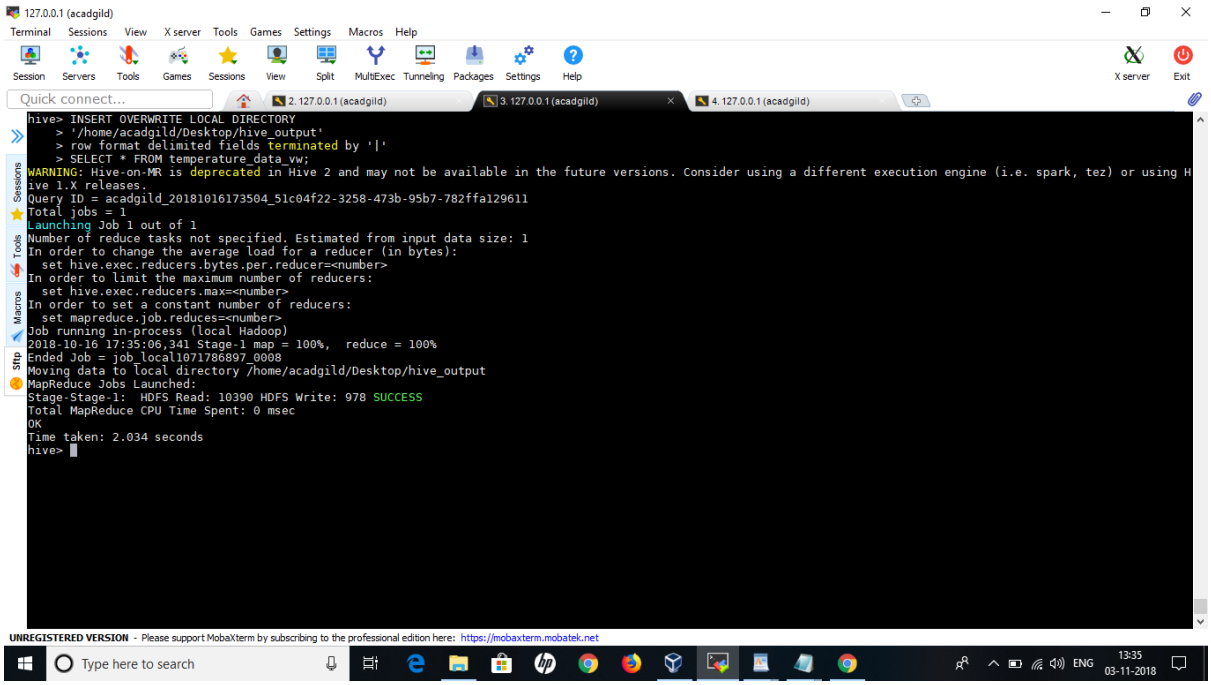
● Export contents from temperature_data_vw to a file in local file system, such that each file is '|' delimited.

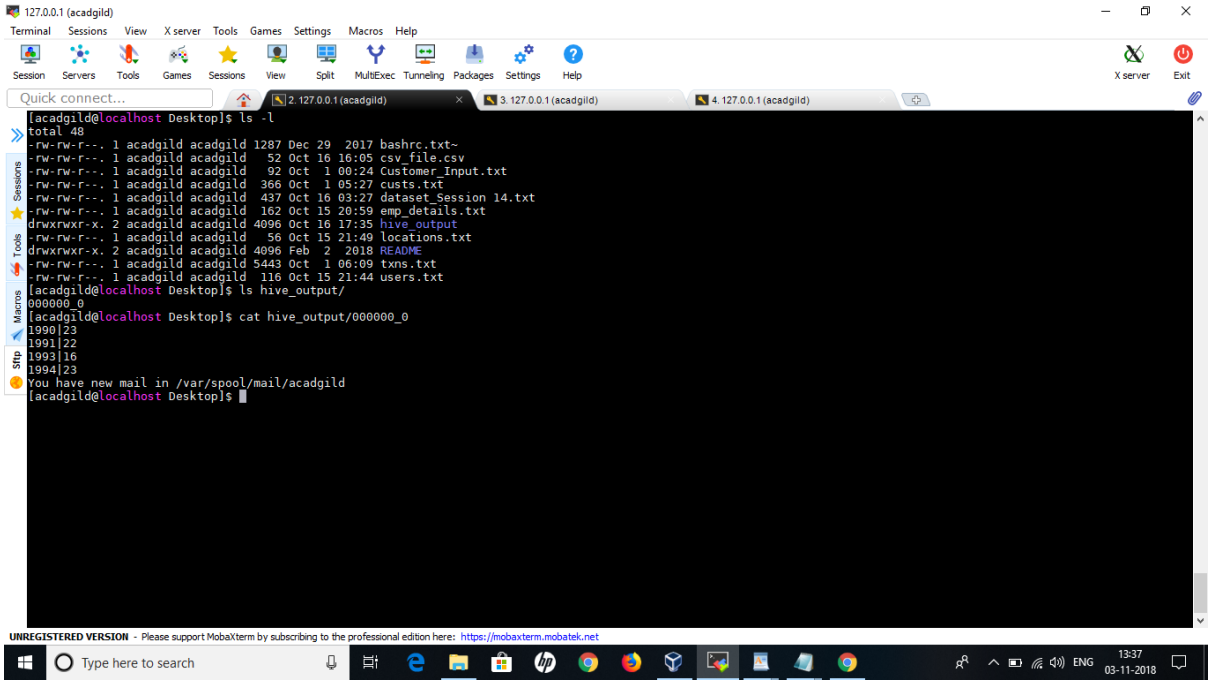
Solution: *INSERT OVERWRITE LOCAL DIRECTORY*

'/home/acadgild/Desktop/hive_output'

row format delimited fields terminated by '|'

*SELECT * FROM temperature_data_vw;*




127.0.0.1 (acadgild)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 127.0.0.1 (acadgild)
3. 127.0.0.1 (acadgild)
4. 127.0.0.1 (acadgild)
Sessions Tools Macros Sftp
[acadgild@localhost Desktop]$ ls -l
total 48
-rw-rw-r--. 1 acadgild acadgild 1287 Dec 29 2017 bashrc.txt~
-rw-rw-r--. 1 acadgild acadgild 52 Oct 16 16:05 csv_file.csv
-rw-rw-r--. 1 acadgild acadgild 92 Oct 1 00:24 Customer_Input.txt
-rw-rw-r--. 1 acadgild acadgild 366 Oct 1 05:27 custs.txt
-rw-rw-r--. 1 acadgild acadgild 437 Oct 16 03:27 dataset_Session 14.txt
-rw-rw-r--. 1 acadgild acadgild 162 Oct 15 20:59 emp_details.txt
drwxrwxr-x. 2 acadgild acadgild 4096 Oct 16 17:35 hive_output
-rw-rw-r--. 1 acadgild acadgild 56 Oct 15 21:49 locations.txt
drwxrwxr-x. 2 acadgild acadgild 4096 Feb 2 2018 README
-rw-rw-r--. 1 acadgild acadgild 5443 Oct 1 06:09 txns.txt
-rw-rw-r--. 1 acadgild acadgild 116 Oct 15 21:44 users.txt
[acadgild@localhost Desktop]$ ls hive_output/
000000_0
[acadgild@localhost Desktop]$ cat hive_output/000000_0
1990|23
1991|22
1993|16
1994|23
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Desktop]$
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03-11-2018