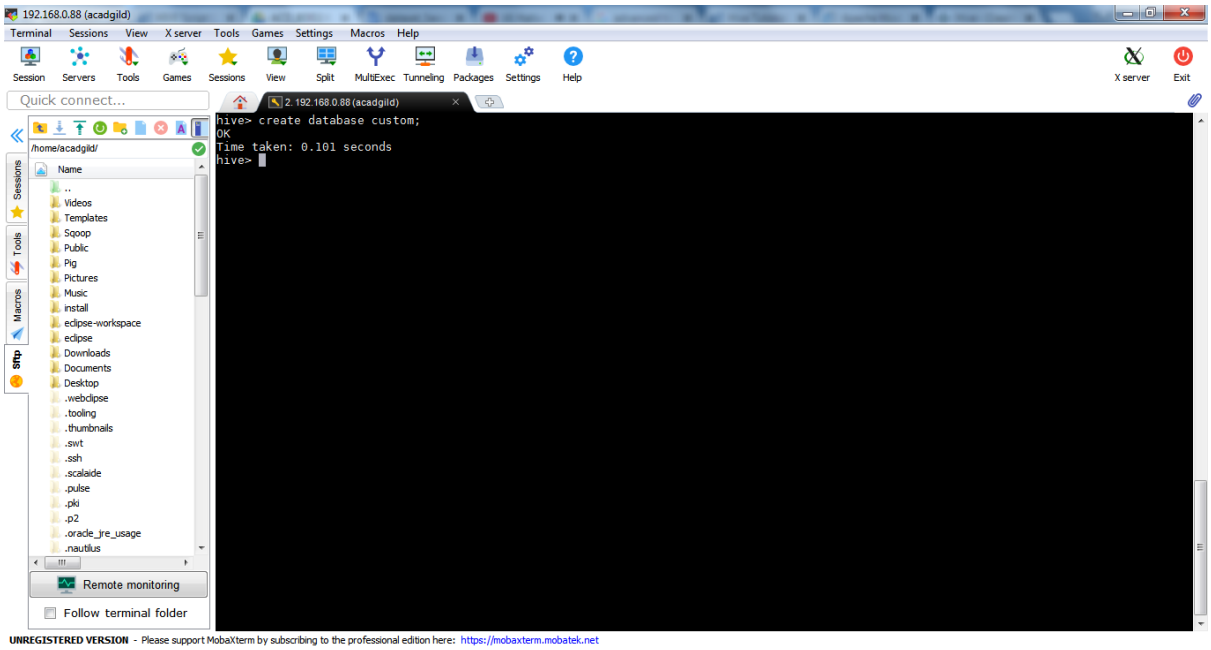
5. Problem Statement

Task 1

Create a database named 'custom'.

Script-:

```
create database 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.

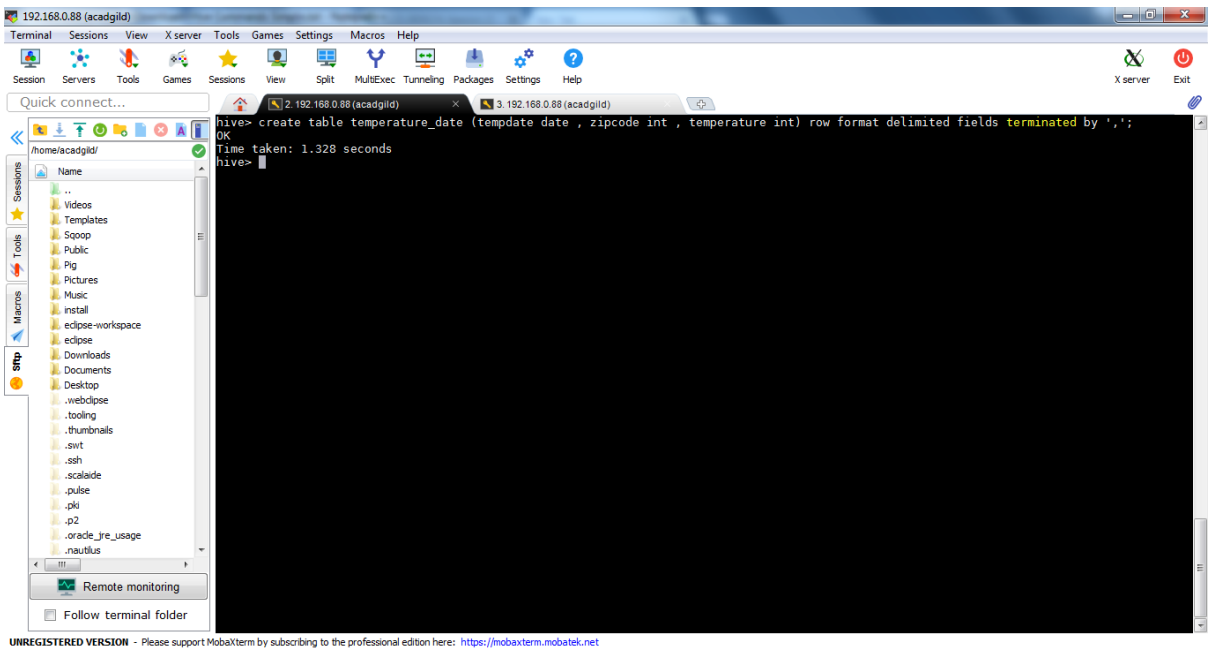
Script-:

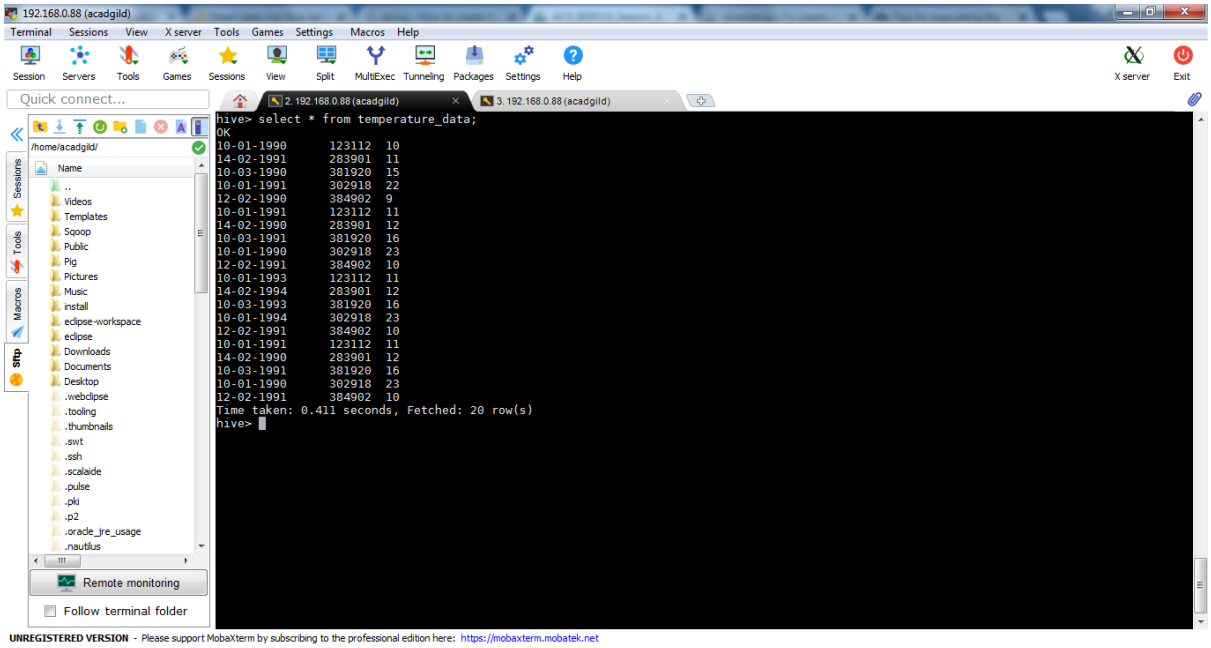
Use custom;

create table temperature_data (tempdate date , zipcode int , temperature int) row format delimited fields terminated by ',';

LOAD DATA LOCAL INPATH '/home/acadgild/dataset_Session14.txt' into table temperature_data;

Output-:





Task 2

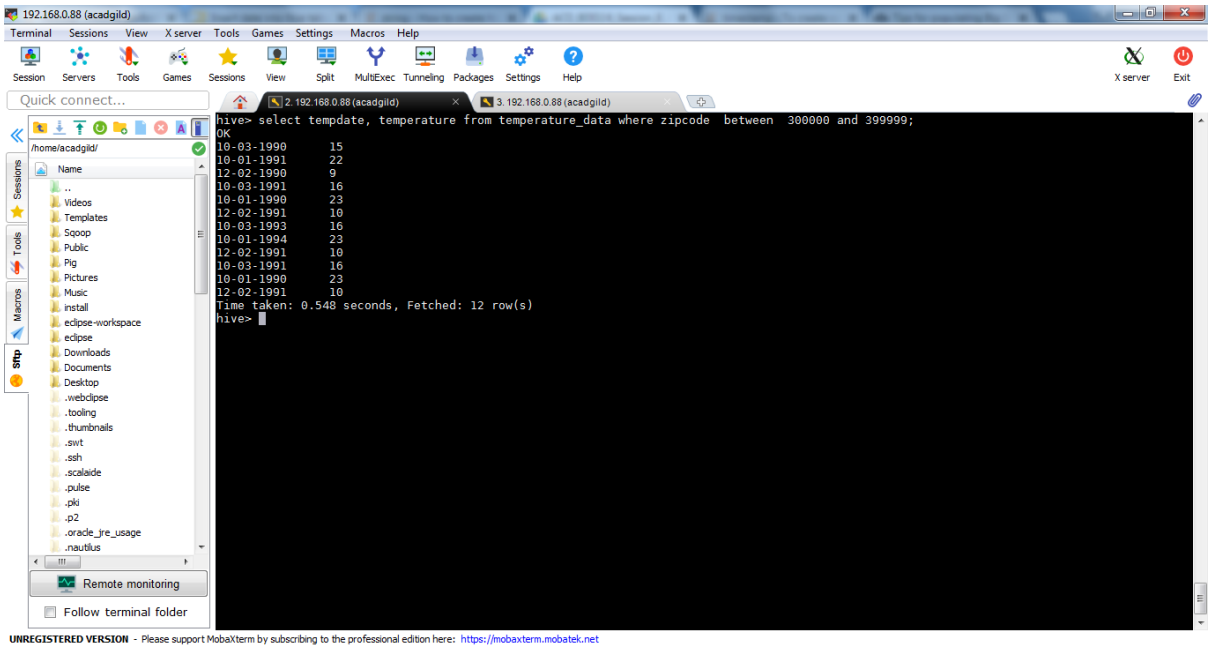
● Fetch date and temperature from temperature_data where zip code is greater than

300000 and less than 399999.

Script-:

select tempdate, temperature from temperature_data where zipcode between 300000 and 399999;

Output-:

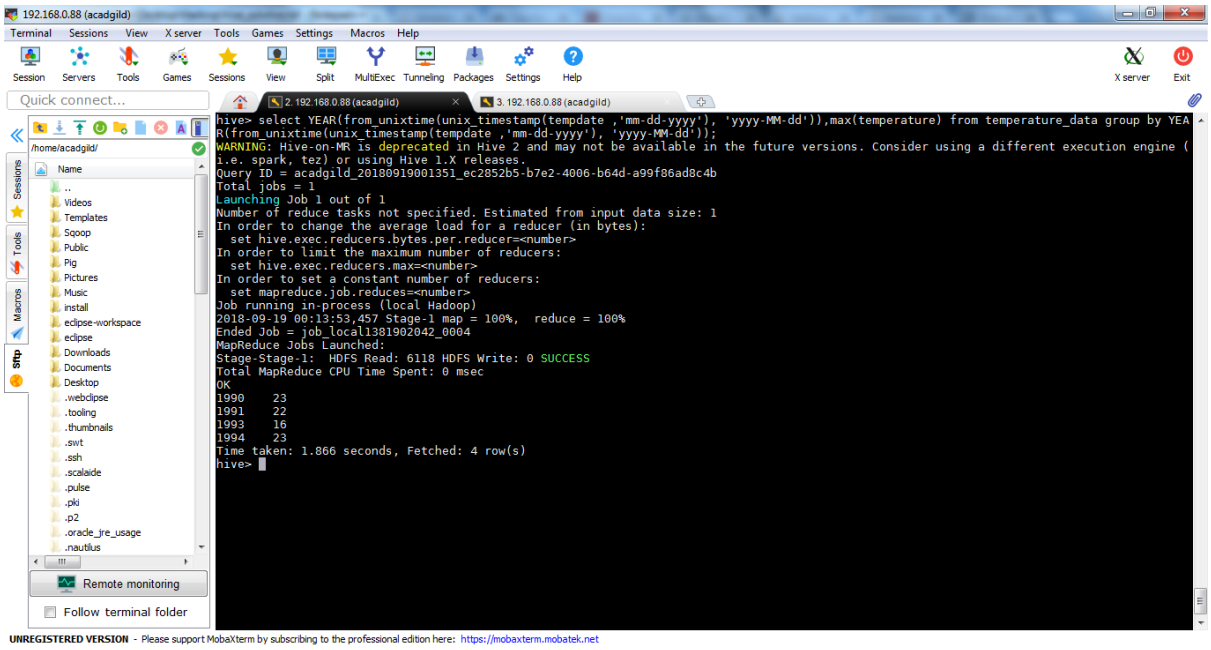


● Calculate maximum temperature corresponding to every year from temperature_data table.

Script-:

```
select YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd')),max(temperature) from temperature_data group by YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd'));
```

Output-:

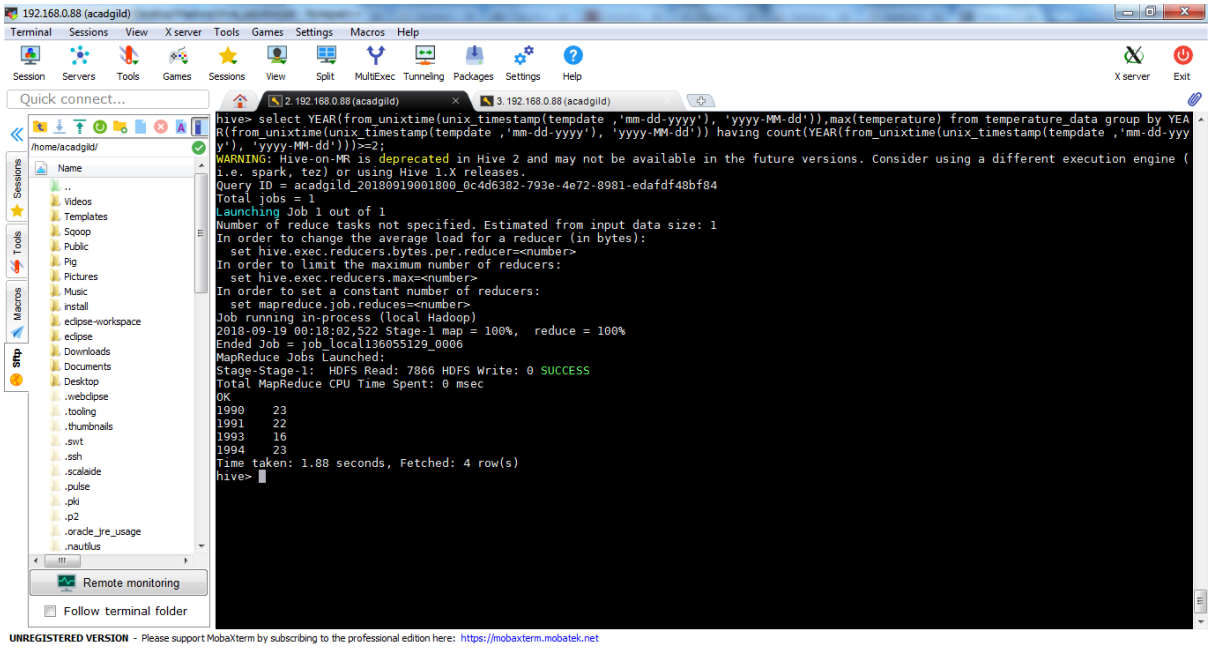


● Calculate maximum temperature from temperature_data table corresponding to those years which have at least 2 entries in the table.

Script-:

```
select YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd')),max(temperature) from temperature_data group by YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd')) having count(YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd')))>=2;
```

Output-:

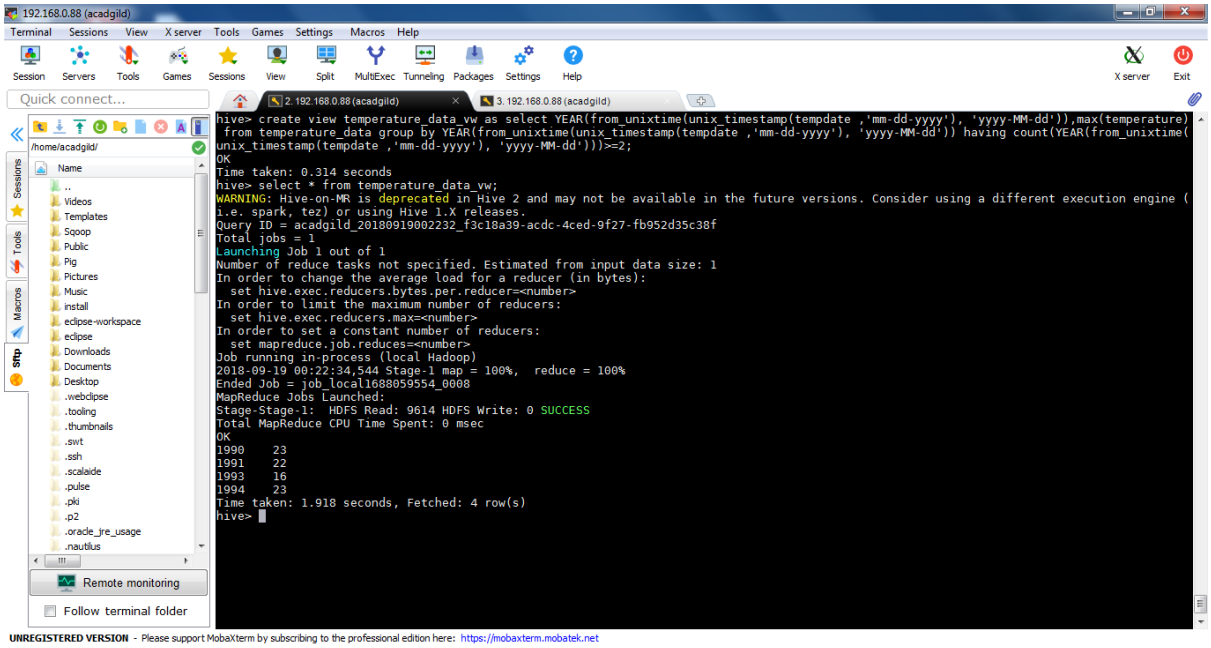


● Create a view on the top of last query, name it temperature_data_vw.

Script-:

```
create view temperature_data_vw as select YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd')),max(temperature) from temperature_data group by YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd')) having count(YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd')))>=2;
```

Output-:



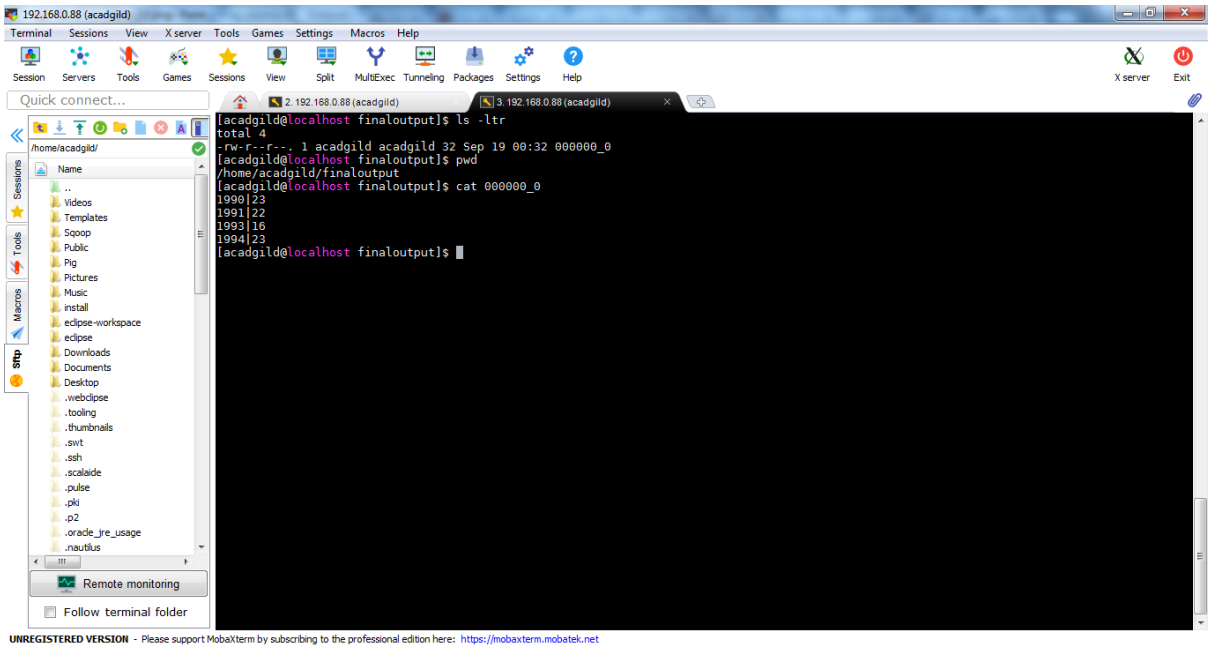
● Export contents from temperature_data_vw to a file in local file system, such that each

file is '|' delimited.

Script-:

insert overwrite local directory '/home/acadgild/finaloutput.txt' row format delimited fields terminated by '|' select YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd')),max(temperature) from temperature_data group by YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd')) having count(YEAR(from_unixtime(unix_timestamp(tempdate ,'mm-dd-yyyy'), 'yyyy-MM-dd')))>=2;

Output-:


192.168.0.88 (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. 192.168.0.88 (acadgild)
3. 192.168.0.88 (acadgild)
[acadgild@localhost finaloutput]$ ls -ltr
total 4
-rw-r--r--. 1 acadgild acadgild 32 Sep 19 00:32 000000_0
[acadgild@localhost finaloutput]$ pwd
/home/acadgild/finaloutput
[acadgild@localhost finaloutput]$ cat 000000_0
1990|23
1991|22
1993|16
1994|23
[acadgild@localhost finaloutput]$
/home/acadgild/
Name
Videos
Templates
Sqoop
Public
Pig
Pictures
Music
install
eclipse-workspace
eclipse
Downloads
Documents
Desktop
.webclipse
.tooling
.thumbnails
.swt
.ssh
.scalaide
.pulse
.pki
.p2
.oracle_jre_usage
.nautilus
Remote monitoring
Follow terminal folder
Sessions
Tools
Macros
Sftp
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