DATE SET DESCRIPTION

The data set consists of the following fields.

Athlete: This field consists of the athlete name

Age: This field consists of athlete ages

Country: This fields consists of the country names which participated in Olympics

Year: This field consists of the year

Closing Date: This field consists of the closing date of ceremony

Sport: Consists of the sports name

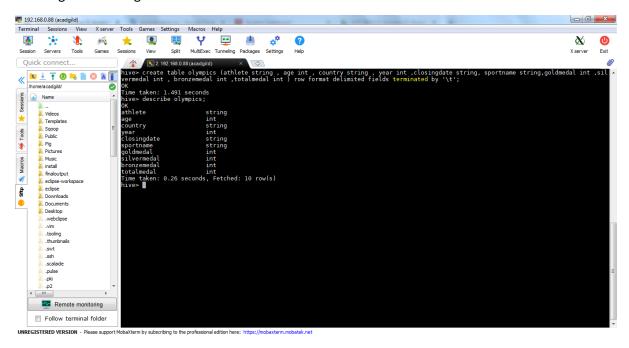
Gold Medals: No. of Gold medals

Silver Medals: No. of Silver medals

Bronze Medals: No. of Bronze medals

Total Medals: Consists of total no. of medals

Creating and Loading data into table:



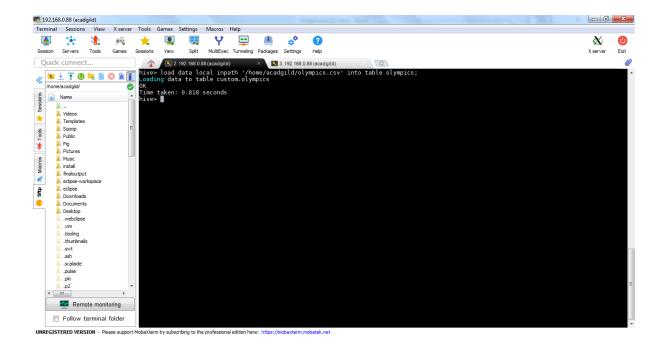
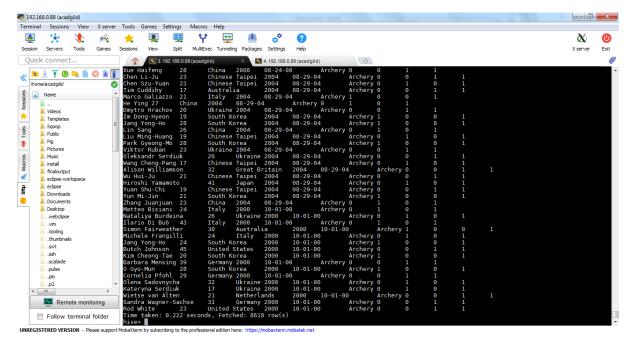


Table Content-:

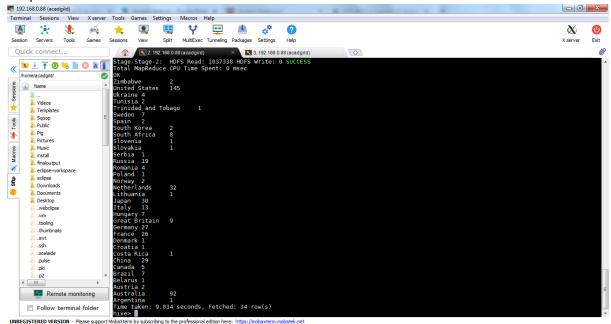


5. Problem Statement

Task 1

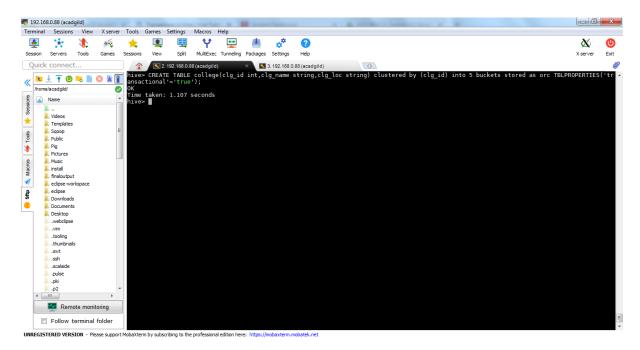
1. Write a Hive program to find the number of medals won by each country in swimming.

Output-:



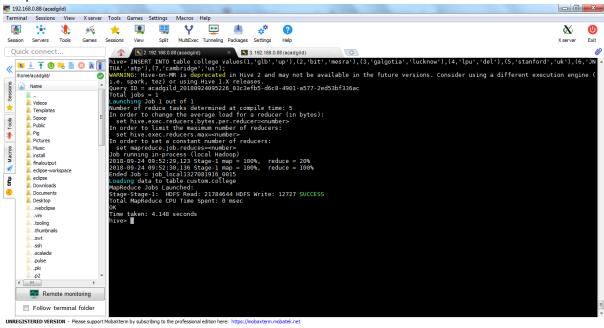
2. Write a Hive program to find the number of medals that India won year wise.

Output-:

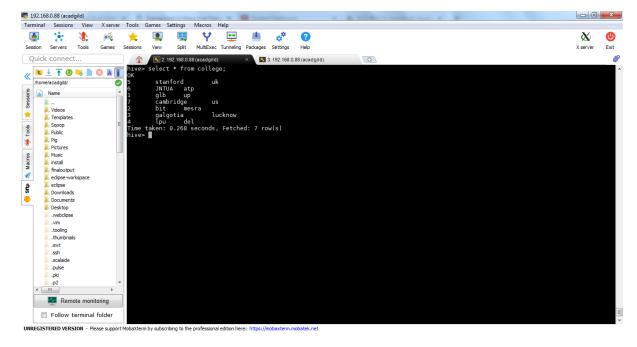


3. Write a Hive Program to find the total number of medals each country won.

Output-:



4. Write a Hive program to find the number of gold medals each country won.



Task 2

Write a hive UDF that implements functionality of string concat_ws(string SEP, array<string>).

This UDF will accept two arguments, one string and one array of string.

It will return a single string where all the elements of the array are separated by the SEP.

create table string_data (name array<string>) row format delimited fields terminated by ',' collection items terminated by ' ';

→ Create a table with one field as array

LOAD DATA LOCAL INPATH '/home/acadgild/words.txt' into table string_data;

→Load data from local path

add jar /home/acadgild/StringConcatenate.jar;

→ Add jar to hive run time

create temporary function stringconcatenate as "com.hem.hadoop.hive.Assignment9.StringConcatenate";

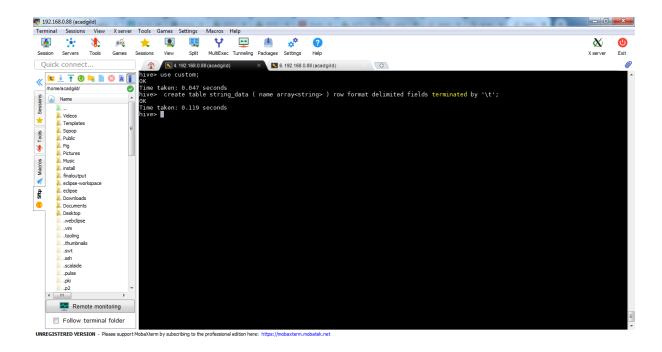
→create temporary function to execute command

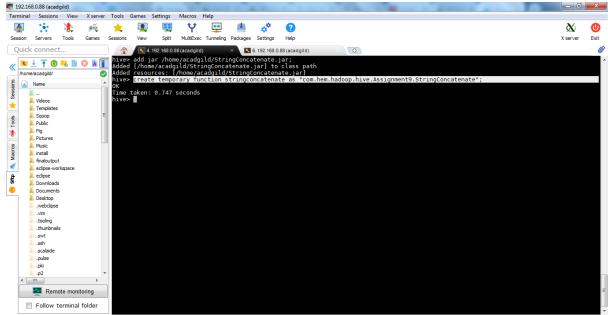
select stringconcatenate(',',name) from string_data;

->>Quering in hive language using temporary function created above with the use of table string data

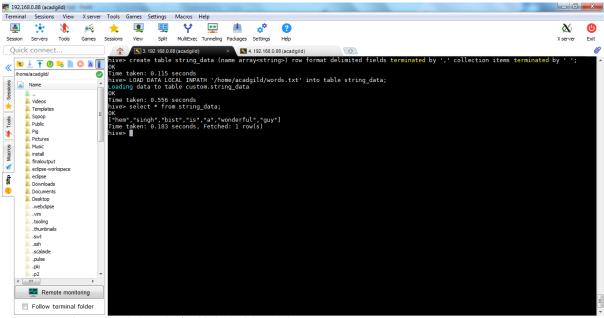
Content of words.txt

hem singh bist is a wonderful guy

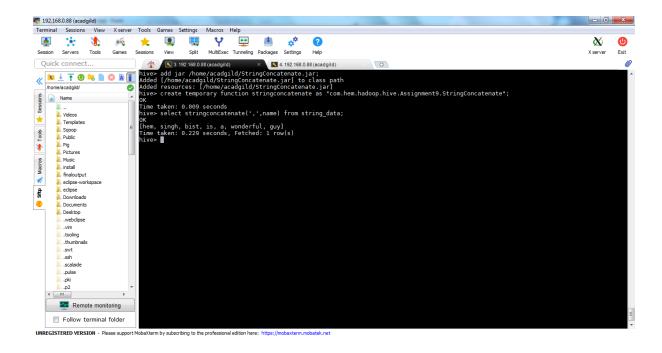




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Task 3

Link: https://acadgild.com/blog/transactions-in-hive/

Refer the above given link for transactions in Hive and implement the operations given in the blog using your own sample data set and send us the screenshot.

Command-:

hive>set hive.support.concurrency = true;

hive>set hive.enforce.bucketing = true;

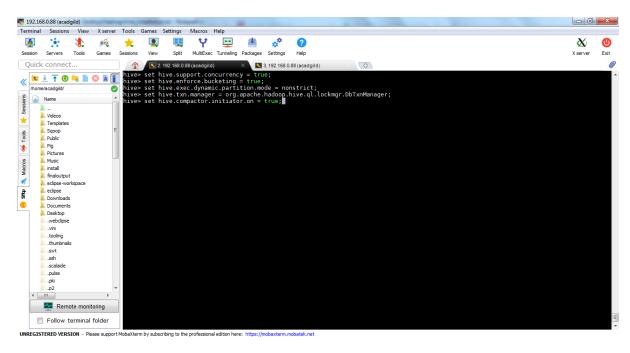
hive>set hive.exec.dynamic.partition.mode = nonstrict;

hive>set hive.txn.manager = org.apache.hadoop.hive.ql.lockmgr.DbTxnManager;

hive>set hive.compactor.initiator.on = true;

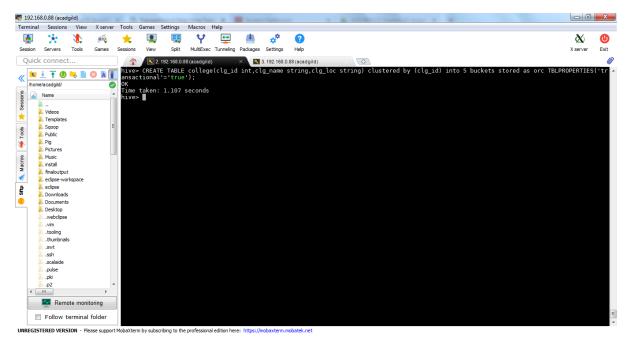
hive>set hive.compactor.worker.threads = a positive number on at least one instance of the Thrift metastore service;

Output-:



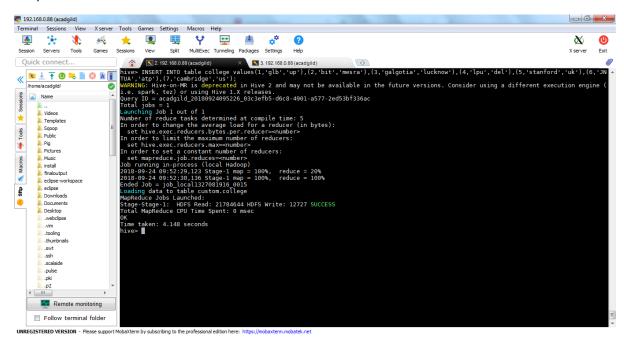
Command-:

CREATE TABLE college(clg_id int,clg_name string,clg_loc string) clustered by (clg_id) into 5 buckets stored as orc TBLPROPERTIES('transactional'='true');

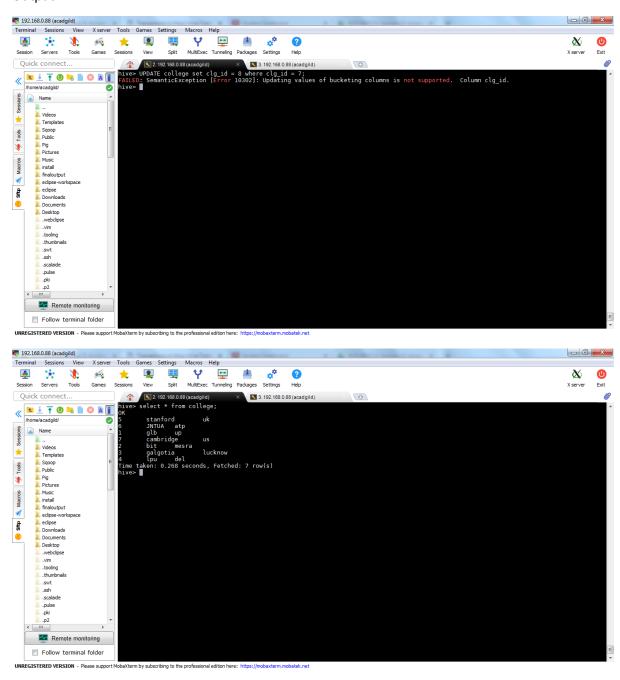


INSERT INTO table college

values(1,'nec','nlr'),(2,'vit','vlr'),(3,'srm','chen'),(4,'lpu','del'),(5,'stanford','uk'),(6,'JNTUA','atp'),(7,'ca mbridge','us');



UPDATE college set clg_id = 8 where clg_id = 7;



UPDATE college set clg_name = 'IIT' where clg_id = 6;

