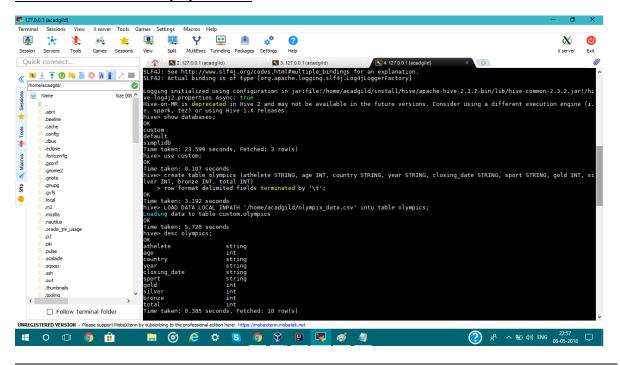
Assignment 9

Creation of table for Olympics table

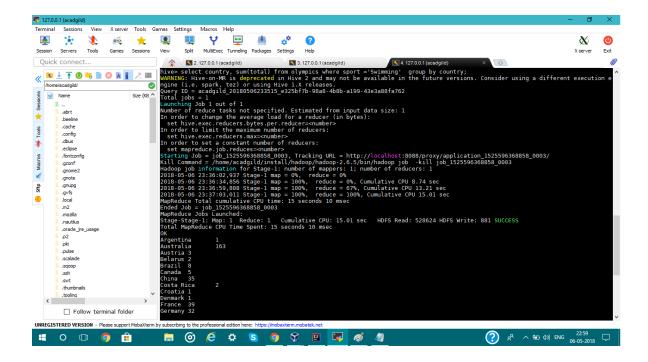


Command used: create table olympic (athelete STRING, age INT, country STRING, year STRING, closing_date STRING, sport STRING, gold INT, silver INT, bronze INT, total INT) row format delimited fields terminated by '\t';

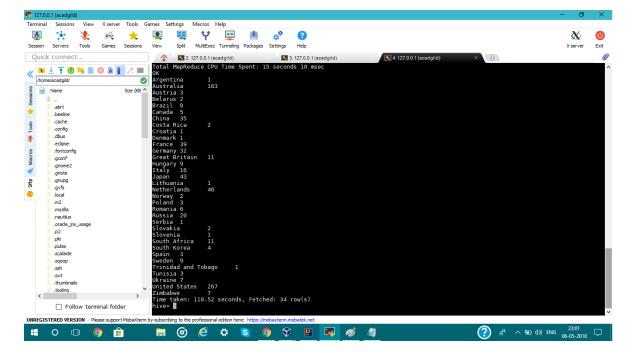
Task1

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

<u>Command used</u>: select country, sum(total) from Olympics where sport='Swimming' group by country;

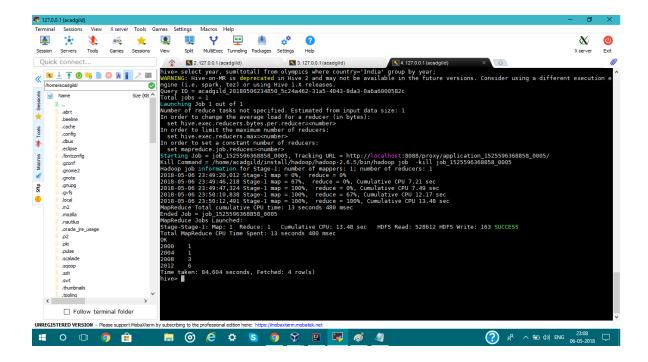


Output



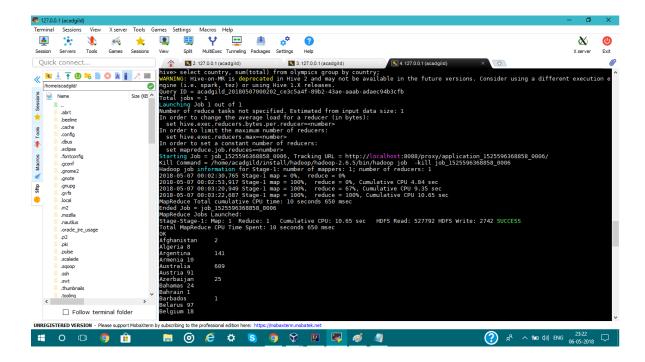
b. Write a Hive program to find the number of medals that India won year wise.

<u>Command used:</u> select year, sum (total) from Olympics where country = 'India' group by year;

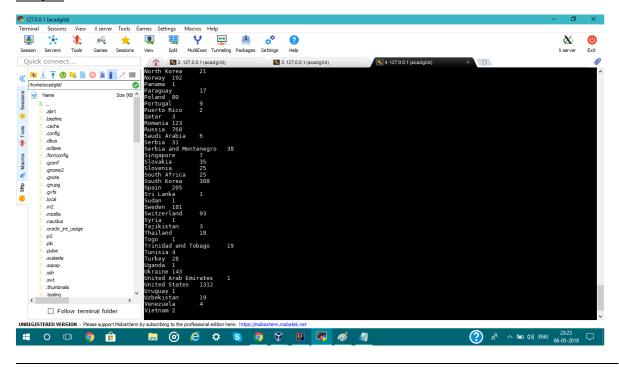


c. Write a Hive Program to find the total number of medals each country won.

<u>Command used:</u> select country, sum (total) from Olympics group by country;

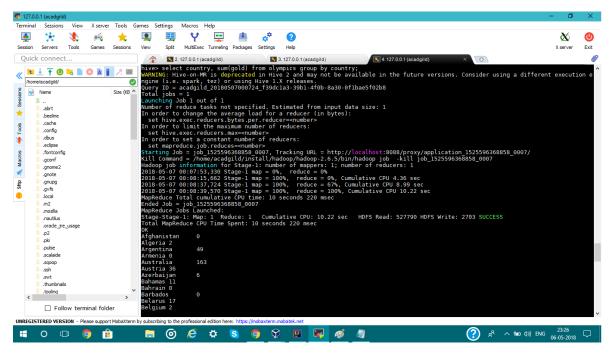


Output

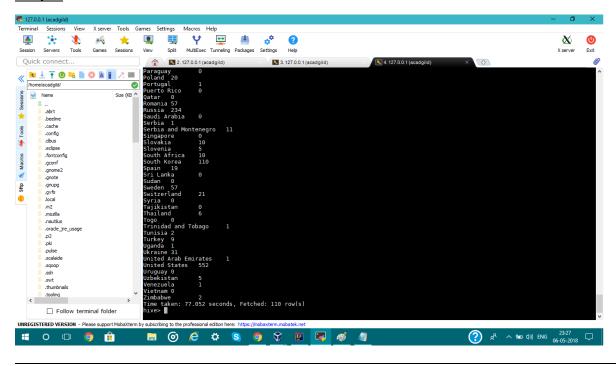


d. Write a Hive program to find the number of gold medals each country won.

Command used: select country, sum (gold) from Olympics group by country;



Output



Task2

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.

Dataset used: customer.txt

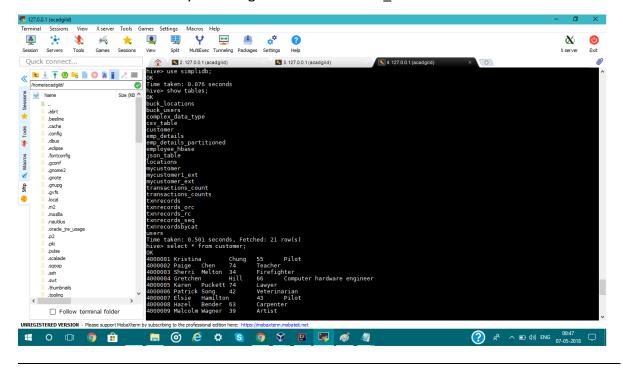
Command used: select concat ws('SEP', collect list(fname)) from customer;

Explanation: Here, the function concat_ws is used to concat the elements of an array.

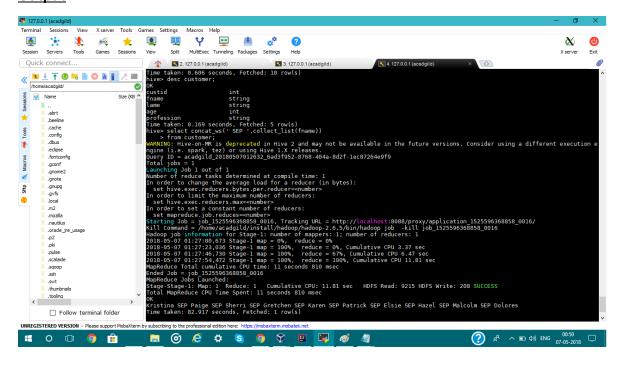
Syntax: concat_ws('delimiter', array).

This function takes two arguments in case of an array: first is the delimiter for the concatenation and second is the array of elements for which the concatenation is to be done.

For this task, the delimiter is the string, 'SEP' with white spaces before and after; and the column for which the array is to be generated via collect list is 'fname'

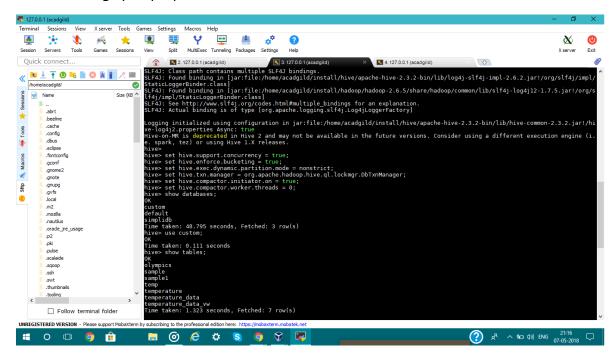


Output

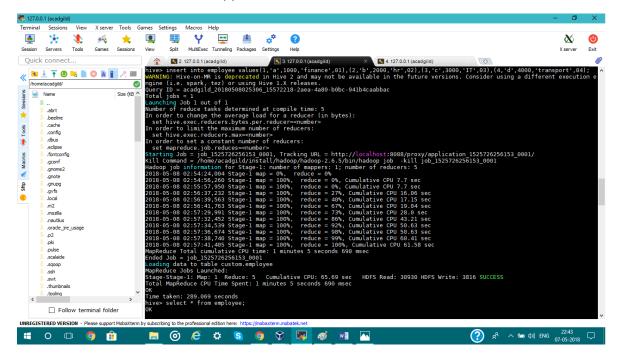


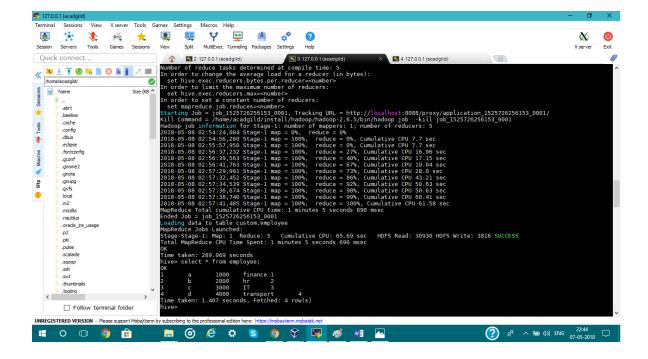
Task3

a. Setting up of properties

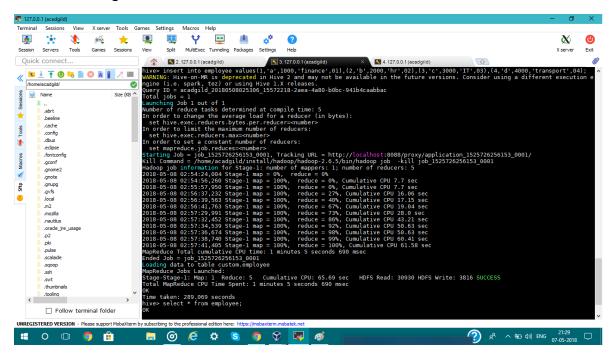


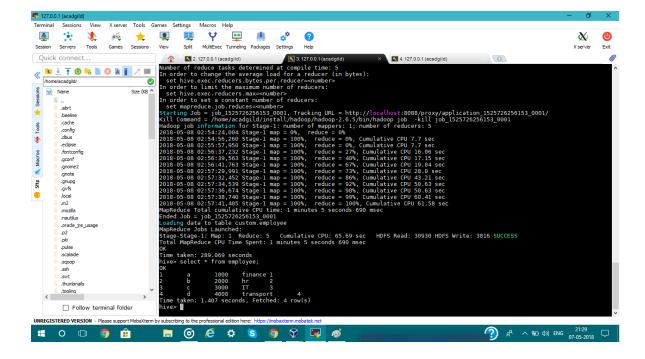
b. Creation of table that supports Hive Transaction



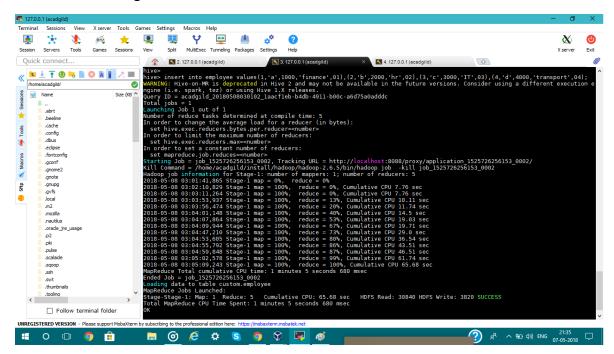


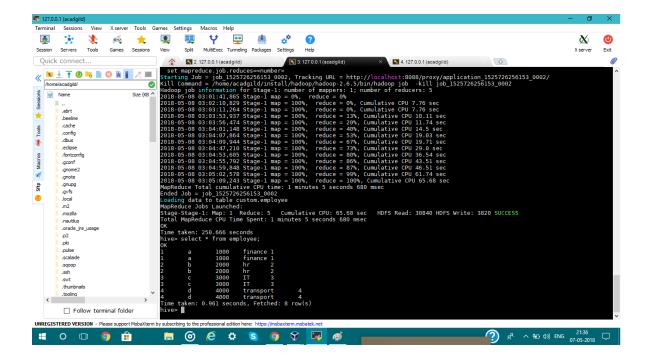
c. Inserting data into Hive table



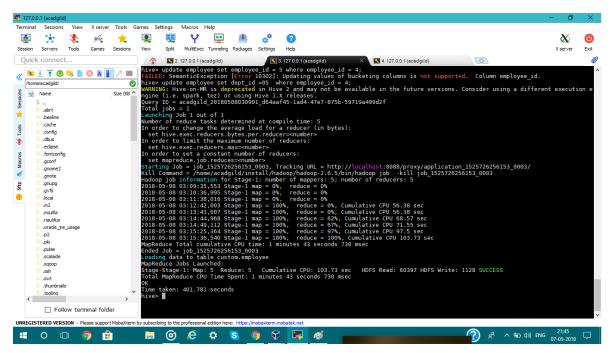


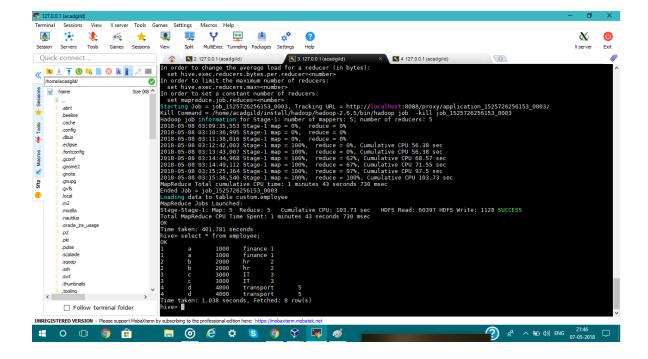
d. Re-inserting of data





e. Updating a column (bucketed and non-bucketed)





f. Deleting a row in Hive table

