ASSIGNMENT 9.1 Advance Hive

Problem Statement:

Given Olympic data set, write a hive program for the below tasks.

Created table and loaded the data using below commands:
1.create table Olympic_data(name String, age Int, country String, year String, Cdate String, sport String, GMedal int, SMedal int, BMedal int, Totmedals int) row format delimited fields terminated by '\t';

2. LOAD DATA LOCAL INPATH '/home/acadgild/olympix_data.csv' into table Olympic_data;

Task 1:

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1. Write a Hive program to find the number of medals won by each country in swimming.
Query for the above task:

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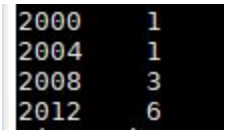
select country , sum(totmedals) from olympic_data where sport = "Swimming" group by country;

output:

2. Write a Hive program to find the number of medals that India won year wise.
Query for the above task:

select year , sum(totmedals) from olympic_data where country = "India" group by year;
output:



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

select country , sum(totmedals) from olympic_data group by country;

Output:

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

select country , sum(GMedals) from olympic_data group by country;

Output:

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.
Steps to create a udf in Hive:
2. For Adding the import org.apache.hadoop.hive.ql.exec.UDF without error add the below external jar files as below:
install/hive/bin/hive-exec-2.3.2
3. Once after fixing all the code issues create a jar file(concat_ws1.jar) using eclipse IDE.
Source code is attached as separate file explaining the code.
4. Move the concat_ws1.jar file to the VM local file system.

5. Add the jar file and create temporary function as below:
ADD JAR /home/acadgild/concat_ws1.jar;
CREATE TEMPORARY FUNCTION concat1 AS 'concat_ws.concat_ws';

7. Now use the created temporary file to concat1 to create the below output.
select concat1('-', zip,temp) from temperature_data;

Output:
