## **Bigdata Assignment 3.2**

This Data set is about Olympics. You can download the data set from the below link:

https://drive.google.com/open?id=0ByJLBTmJojjzV1czX3Nha0R3bTQDATE 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

<u>Table Creation:</u> Dataset olympix.csv was loaded into a table called olmpic\_data with the given columns.

CREATE TABLE IF NOT EXISTS olympic\_data(athlete String, age int, country String, the\_year int, closing\_date String, sport String, gold int, silver int, bronze int, total\_medals int) ROW FORAT DELIMITED FIELDS TERMINATED BY '\t';

LOAD DATA LOCAL INPATH 'olmpix.csv' into table olympic\_data;



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

Ans — We selected each country and sum of total medals in Swimming using GROUP BY.

select country , SUM(total\_medals) from olmpic\_data where sport =

## 'Swimming' GROUP BY country;



Output- We got the list of each country and its corresponding no of total medals in Swimming.

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

Ans — We calculated in each year no of medals won by India using GROUP BY.

select the\_year , SUM(total\_medals) from olympic\_data where country =
'India' GROUP BY the\_year;

In the above screenshot we got the output in which year India got medals.

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



Ans — We calculated no of medals won by each country using GROUP By. select country, SUM(total\_medals) from olmpic\_data GROUP BY country;

OUTPUT - We got the list of country and its corresponding no of total medals won.

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| Algeria            | 8    |         |        |       |         |   |         |     |          |
| Argenti            | ina  |         | 141    |       |         |   |         |     |          |
| Armenia            | 10   | )       |        |       |         |   |         |     |          |
| Austral            | lia  |         | 609    |       |         |   |         |     |          |
| Austria            |      |         |        |       |         |   |         |     |          |
| Azerbai            | _    |         | 25     |       |         |   |         |     |          |
| Bahamas            |      | -       |        |       |         |   |         |     |          |
| Bahrain            |      |         |        |       |         |   |         |     |          |
| Barbado            |      |         | 1      |       |         |   |         |     |          |
| Belarus            |      |         |        |       |         |   |         |     |          |
| Belgium            |      | 3       |        |       |         |   |         |     |          |
| Botswar            |      | 72.25   | 1      |       |         |   |         |     |          |
| Brazil             |      | 21      | 772323 |       |         |   |         |     |          |
| Bulgari            |      |         | 41     |       |         |   |         |     |          |
| Cameroo            |      |         | 20     |       |         |   |         |     |          |
| Canada             |      |         |        |       |         |   |         |     |          |
| Chile              | 22   |         |        |       |         |   |         |     |          |
| China              |      |         |        |       |         |   |         |     |          |
| Chinese            |      | ipei    | 20     |       |         |   |         |     |          |
| Colombi            |      |         | 13     |       |         |   |         |     |          |
| Costa F            |      |         | 2      |       |         |   |         |     |          |
| Croatia            |      |         |        |       |         |   |         |     |          |
| Cuba               | 18   | 8       |        |       |         |   |         |     |          |
| Cyprus             | 1    | .b1 d a | 0.1    |       |         |   |         |     |          |
| Czech F            |      |         | 81     |       |         |   |         |     |          |
| Denmark            |      |         | lic    |       | =       |   |         |     |          |
| Dominio<br>Ecuador |      | Kepub   | LIC    |       | 5       |   |         |     |          |
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| Egypt              |      |         |        |       |         |   |         |     |          |
| Eritrea<br>Estonia |      |         |        |       |         |   |         |     |          |
| Ethiopi            |      | ,       | 29     |       |         |   |         |     |          |
| Finland            |      | 8       | 23     |       |         |   |         |     |          |
| France             | 31   |         |        |       |         |   |         |     |          |
| Gabon              | 1    |         |        |       |         |   |         |     |          |
| Georgia            |      |         |        |       |         |   |         |     |          |
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| Panama 1               |         |           |           |         |
| Paraguay               | 17      |           |           |         |
| Poland 80              |         |           |           |         |
| Portugal               | 9       |           |           |         |
| Puerto Rico            | 2       |           |           |         |
| Qatar 3                |         |           |           |         |
| Romania 123            |         |           |           |         |
| Russia 768             |         |           |           |         |
| Saudi Arabia           | 6       |           |           |         |
| Serbia 31              |         | 1212      |           |         |
| Serbia and Mont        |         | 38        |           |         |
| Singapore              | 7       |           |           |         |
| Slovakia               | 35      |           |           |         |
| Slovenia               | 25      |           |           |         |
| South Africa           | 25      |           |           |         |
| South Korea            | 308     |           |           |         |
| Spain 205<br>Sri Lanka |         |           |           |         |
|                        | 1       |           |           |         |
| Sudan 1<br>Sweden 181  |         |           |           |         |
| Switzerland            | 93      |           |           |         |
| Syria 1                | 93      |           |           |         |
| Tajikistan             | 3       |           |           |         |
| Thailand               | 18      |           |           |         |
| Togo 1                 | 10      |           |           |         |
| Trinidad and To        | hago    | 19        |           |         |
| Tunisia 4              | Dago    | 13        |           |         |
| Turkey 28              |         |           |           |         |
| Uganda 1               |         |           |           |         |
| Ukraine 143            |         |           |           |         |
| United Arab Emi        | rates   | 1         |           |         |
| United States          | 1312    |           |           |         |
| Uruguay 1              |         |           |           |         |
| Uzbekistan             | 19      |           |           |         |
| Venezuela              | 4       |           |           |         |
| Vietnam 2              |         |           |           |         |
| Zimbabwe               | 7       |           |           |         |
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4. Write a Hive program to find the number of gold medals each country won.

Ans - We calculated no of gold medals won by each country using GROUP By.

select country, SUM(gold) from olmpic\_data GROUP BY country;

OUTPUT - We got the list of country and its corresponding no of total gold medals won.

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| Belar       | us   | 17  |        |      |       |         |   |         |     |          |
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| Bulga       | ria  |     |        | 8    |       |         |   |         |     |          |
| Camer       |      |     |        | 20   |       |         |   |         |     |          |
| Canad       |      | 168 | В      |      |       |         |   |         |     |          |
| Chile       |      | 3   |        |      |       |         |   |         |     |          |
| China       |      | 234 |        |      |       |         |   |         |     |          |
| Chine       |      |     | ipei   | 2    |       |         |   |         |     |          |
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| Ethio       |      |     |        | 13   |       |         |   |         |     |          |
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| France      |      | 108 | 5      |      |       |         |   |         |     |          |
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| Romania 57          |             |             |        |  |  |  |  |
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| Saudi Arabia 0      |             |             |        |  |  |  |  |
| Serbia 1            |             |             |        |  |  |  |  |
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| Singapore 0         |             |             |        |  |  |  |  |
| Slovakia 10         |             |             |        |  |  |  |  |
| Slovenia 5          |             |             |        |  |  |  |  |
| South Africa 10     |             |             |        |  |  |  |  |
| South Korea 11      | Э           |             |        |  |  |  |  |
| Spain 19            |             |             |        |  |  |  |  |
| Sri Lanka 0         |             |             |        |  |  |  |  |
| Sudan 0             |             |             |        |  |  |  |  |
| Sweden 57           |             |             |        |  |  |  |  |
| Switzerland 21      |             |             |        |  |  |  |  |
| Syria 0             |             |             |        |  |  |  |  |
| Tajikistan 0        |             |             |        |  |  |  |  |
|                     | Thailand 6  |             |        |  |  |  |  |
| Togo 0              |             |             |        |  |  |  |  |
| Trinidad and Tobag  | 0 1         |             |        |  |  |  |  |
| Tunisia 2           |             |             |        |  |  |  |  |
| Turkey 9            |             |             |        |  |  |  |  |
| Uganda 1            |             |             |        |  |  |  |  |
| Ukraine 31          |             |             |        |  |  |  |  |
| United Arab Emirate |             |             |        |  |  |  |  |
| United States 55    | 2           |             |        |  |  |  |  |
| Uruguay 0           |             |             |        |  |  |  |  |
| Uzbekistan 5        |             |             |        |  |  |  |  |
| Venezuela 1         |             |             |        |  |  |  |  |
| Vietnam 0           |             |             |        |  |  |  |  |
| Zimbabwe 2          |             |             |        |  |  |  |  |
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