

## Create olympics table and load data from csv file olympix\_data.csv

```
[hive> create table olympic (athlete STRING,age INT,country STRING,year STRING,closing STRING,sport STRING,gold INT,silver INT,bronze INT,total INT) row format delimited fields terminated by '\t' stored as textfile;
OK
Time taken: 0.83 seconds
[hive> LOAD DATA LOCAL INPATH '/Users/Disha/Downloads/olympix_data.csv' INTO TABLE olympic;
Loading data to table custom.olympic
OK
Time taken: 1.823 seconds
[hive> select count(*) from olympic;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
Query ID = Disha_20170919001642_7e90c62b-9213-43c0-99f1-784f668d7369
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2017-09-19 00:16:48,877 Stage-1 map = 100%,  reduce = 0%
2017-09-19 00:16:49,880 Stage-1 map = 100%,  reduce = 100%
Ended Job = job_local1057170569_0001
MapReduce Jobs Launched:
Stage-Stage-1:  HDFS Read: 1037338 HDFS Write: 1037338 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
OK
8618
Time taken: 6.925 seconds, Fetched: 1 row(s)
..
```

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

```
[hive> select country,SUM(total) from olympic where sport = "Swimming" GROUP BY country;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
Query ID = Disha_20170919001852_ae26b930-5ac0-470a-83f4-cb232b565ae3
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2017-09-19 00:18:55,770 Stage-1 map = 100%,  reduce = 100%
Ended Job = job_local1383559589_0002
MapReduce Jobs Launched:
Stage-Stage-1:  HDFS Read: 2074676 HDFS Write: 1037338 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
OK
Argentina      1
Australia      163
Austria        3
Belarus        2
Brazil         8
Canada         5
China          35
Costa Rica     2
Croatia        1
Denmark        1
France         39
Germany        32
Great Britain  11
Hungary        9
Italy          16
Japan          43
Lithuania      1
Netherlands    46
Norway         2
Poland         3
Romania        6
Russia         20
Serbia         1
Slovakia       2
Slovenia       1
South Africa   11
South Korea    4
Spain          3
Sweden         9
Trinidad and Tobago  1
Tunisia        3
Ukraine        7
United States  267
Zimbabwe       7
Time taken: 2.918 seconds, Fetched: 34 row(s)
..
```

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

```

[hive> select year,SUM(total) from olympic where country = "India" GROUP BY year;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
Query ID = Disha_20170919002232_28ec591d-0398-4498-a52b-adf2cdd2b9c6
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2017-09-19 00:22:35,805 Stage-1 map = 100%,  reduce = 100%
Ended Job = job_local920666754_0003
MapReduce Jobs Launched:
Stage-Stage-1:  HDFS Read: 3112014 HDFS Write: 1037338 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
OK
2000    1
2004    1
2008    3
2012    6
Time taken: 2.897 seconds, Fetched: 4 row(s)
hive>

```

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

```

[hive> select country,SUM(total) from olympic GROUP BY country;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
Query ID = Disha_20170919002357_23e8f3de-8b92-456e-81c7-3172ef905843
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2017-09-19 00:23:59,830 Stage-1 map = 100%,  reduce = 100%
Ended Job = job_local485429261_0004
MapReduce Jobs Launched:
Stage-Stage-1:  HDFS Read: 4149352 HDFS Write: 1037338 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
OK
Afghanistan    2
Algeria         8
Argentina       141
Armenia         10
Australia       609
Austria         91
Azerbaijan     25
Bahamas         24
Bahrain         1
Barbados        1
Belarus         97
Belgium         18
Botswana        1
Brazil          221
Bulgaria        41
Cameroon        20
Canada          370
Chile           22
China           530
Chinese Taipei  20
Colombia        13
Costa Rica      2
Croatia         81
Cuba            188
Cyprus          1
Czech Republic  81
Denmark         89
Dominican Republic  5
Ecuador         1
Egypt           8
Eritrea         1

```

```

Estonia 18
Ethiopia 29
Finland 118
France 318
Gabon 1
Georgia 23
Germany 629
Great Britain 322
Greece 59
Grenada 1
Guatemala 1
Hong Kong 3
Hungary 145
Iceland 15
India 11
Indonesia 22
Iran 24
Ireland 9
Israel 4
Italy 331
Jamaica 80
Japan 282
Kazakhstan 42
Kenya 39
Kuwait 2
Kyrgyzstan 3
Latvia 17
Lithuania 30
Macedonia 1
Malaysia 3
Mauritius 1
Mexico 38
Moldova 5
Mongolia 10
Montenegro 14
Morocco 11
Mozambique 1
Netherlands 318
New Zealand 52
Nigeria 39
North Korea 21
Norway 192
Panama 1
Paraguay 17
Poland 80
Portugal 9
Puerto Rico 2
Qatar 3
Romania 123
Russia 768
Saudi Arabia 6
Serbia 31
Serbia and Montenegro 38
Singapore 7
Slovakia 35
Slovenia 25
South Africa 25
South Korea 308
Spain 205
Sri Lanka 1
Sudan 1
Sweden 181
Switzerland 93
Syria 1
Tajikistan 3
Thailand 18
Togo 1
Trinidad and Tobago 19
Tunisia 4
Turkey 28
Uganda 1
Ukraine 143
United Arab Emirates 1
United States 1312
Uruguay 1
Uzbekistan 19
Venezuela 4
Vietnam 2
Zimbabwe 7
Time taken: 2.291 seconds, Fetched: 110 row(s)
hive> █

```

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

```

[hive> select country,SUM(gold) from olympic GROUP BY country;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
Query ID = Disha_20170919002800_68c856e3-c847-457e-a4ff-331d430f3d4d
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2017-09-19 00:28:03,779 Stage-1 map = 100%,  reduce = 100%
Ended Job = job_local485052832_0005
MapReduce Jobs Launched:
Stage-Stage-1:  HDFS Read: 5186690 HDFS Write: 1037338 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
OK
Afghanistan      0
Algeria          2
Argentina        49
Armenia          0
Australia        163
Austria          36
Azerbaijan       6
Bahamas          11
Bahrain          0
Barbados         0
Belarus          17
Belgium          2
Botswana         0
Brazil           46
Bulgaria         8
Cameroon         20
Canada           168
Chile            3
China            234
Chinese Taipei   2
Colombia         2
Costa Rica       0
Croatia          35
Cuba             57
Cyprus           0
Czech Republic  14
Denmark          46
Dominican Republic 3
Ecuador          0
Egypt            1
Eritrea          0
Estonia          6
Ethiopia        13
Finland          11
France           108
Gabon            0
Georgia          6
Germany          223
Great Britain    124
Greece           12
Grenada          1
Guatemala        0
Hong Kong        0
Hungary          77
Iceland          0
India            1
Indonesia        5
Iran             10
Ireland          1
Israel           1
Italy            86
Jamaica          24
Japan            57
Kazakhstan       13
Kenya            11
Kuwait           0
Kyrgyzstan      0
Latvia           3
Lithuania        5
Macedonia        0
Malaysia         0
Mauritius        0
Mexico           19
Moldova          0
Mongolia         2
Montenegro       0
Morocco          2
Mozambique       1
Netherlands     101
New Zealand      18
Nigeria          6
North Korea      6
Norway           97
Panama           1
Paraguay         0
Poland           20
Portugal         1

```

```
Puerto Rico      0
Qatar            0
Romania          57
Russia           234
Saudi Arabia     0
Serbia           1
Serbia and Montenegro  11
Singapore        0
Slovakia         10
Slovenia         5
South Africa     10
South Korea      110
Spain            19
Sri Lanka        0
Sudan            0
Sweden           57
Switzerland      21
Syria            0
Tajikistan       0
Thailand         6
Togo             0
Trinidad and Tobago  1
Tunisia          2
Turkey           9
Uganda           1
Ukraine          31
United Arab Emirates  1
United States    552
Uruguay          0
Uzbekistan       5
Venezuela        1
Vietnam          0
Zimbabwe         2
Time taken: 2.9 seconds, Fetched: 110 row(s)
hive> █
```