Assignment 7.2

Loaded the **Olympics_data.csv** into **/user/acadgild**. Created the table **Oylmpics_data** and loaded the **Olympics_data.csv** file in the table.

```
hive> create table olympics_data
    > (
    > Athlete STRING,
    > Age INT,
    > Country STRING,
    > Year INT,
    > Closing_Date STRING,
    > Sport STRING,
    > Gold_Medals INT,
    > Silver_Medals INT,
    > Bronze_Medals INT,
    > Total_Medals INT
    > )
    > ROW FORMAT DELIMITED FIELDS TERMINATED BY ',';
OK
Time taken: 0.425 seconds
hive>
```

1. Numbers of medals won by each country for Swimming

Command:

```
hive> SELECT Country, COUNT(Total_Medals) FROM olympics_data WHERE Sport = "Swimming" GROUP BY Country;
Query ID = acadgild_20171108211616_a7104bdb-850a-4o82-8d1d-24182co367c0
Total jobs = 1
```

Output:

```
Total MapReduce CPU Time S
OK
Argentina       1
Australia       92
Austria 2
Belarus 1
Brazil  7
Canada  5
China   29
Costa Rica      1
Croatia 1
Denmark 1
France  26
Germany 27
Great Britain   9
Hungary 7
Italy   13
Japan   30
Lithuania       1
Netherlands     32
Norway  2
Poland  1
Romania 4
Russia  19
Serbia  1
Slovakia        1
Slovenia        1
South Africa    8
South Korea     2
Spain   2
Sweden  7
Trinidad and Tobago     1
Tunisia 2
Ukraine 4
United States   145
Zimbabwe        2
Time taken: 70.244 seconds
hive>
```

2. No. of medals won by India year wise.

Command :

SELECT Year, COUNT(Total_Medals) FROM olympics_data WHERE Country="India" GROUP BY Year;

```
hive> SELECT Year, COUNT(Total_Medals) FROM olympics_data WHERE Country="India" GROUP BY Year;
Query ID = acadgild_20171108212323_c8bbcdd0-7e63-4aa0-8466-6bf2314d9d6f
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>
Starting Job = job_1510148864385_0007, Tracking URL = http://chemlabtest.aqs.com:8088/proxy/application_1510148864385_0007/
Kill Command = /home/acadgild/hadoop-2.6.0/bin/hadoop job  -kill job_1510148864385_0007
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2017-11-08 21:23:51,233 Stage-1 map = 0%,   reduce = 0%
2017-11-08 21:24:05,735 Stage-1 map = 100%,   reduce = 0%, Cumulative CPU 2.36 sec
2017-11-08 21:24:23,237 Stage-1 map = 100%,   reduce = 100%, Cumulative CPU 5.82 sec
MapReduce Total cumulative CPU time: 5 seconds 820 msec
Ended Job = job_1510148864385_0007
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1   Cumulative CPU: 5.82 sec   HDFS Read: 518905 HDFS Write: 28 SUCCESS
Total MapReduce CPU Time Spent: 5 seconds 820 msec
OK
2000    1
2004    1          OUTPUT
2008    3
2012    6
Time taken: 54.652 seconds, Fetched: 4 row(s)
hive>
```

3. Number of medals won by each country

Command:

```
Time taken: 54.652 seconds, Fetched: 4 row(s)
hive> SELECT Country, COUNT(Total_Medals) FROM olympics_data GROUP BY Country;
```

Output:

```
Total MapReduce CPU Time S...
OK
Afghanistan            2
Algeria 8
Argentina              141
Armenia 10
Australia              524
Austria 70
Azerbaijan             25
Bahamas 23
Bahrain 1
Barbados               1
Belarus 92
Belgium 18
Botswana               1
Brazil   220
Bulgaria               36
Cameroon               20
Canada   351
Chile    20
China    450
Chinese Taipei  20
Colombia               13
Costa Rica             1
Croatia 76
Cuba     188
Cyprus   1
Czech Republic   75
Denmark 89
Dominican Republic     5
Ecuador 1
Egypt    8
Eritrea 1
Estonia 16
Ethiopia               24
Finland 112
France   287
Gabon    1
Georgia 23

Germany 552
Great Britain          296
Greece   59
Grenada 1
Guatemala              1
Hong Kong              3
Hungary 132
Iceland 15
India    11
Indonesia              22
Iran     24
Ireland 9
Israel   4
Italy    307
Jamaica 61
Japan    259
Kazakhstan             42
Kenya    38
Kuwait   2
Kyrgyzstan             3
Latvia   17
Lithuania              30
Macedonia              1
Malaysia               3
Mauritius              1
Mexico   38
Moldova 5
Mongolia               10
Montenegro             14
Morocco 10
Mozambique             1
Netherlands            286
New Zealand            51
Nigeria 39
North Korea            21
Norway   158
Panama   1
Paraguay               17
Poland   73
Portugal               9
Puerto Rico            2

Qatar    3
Romania 97
Russia   706
Saudi Arabia      6
Serbia   31
Serbia and Montenegro       38
Singapore              6
Slovakia               33
Slovenia               24
South Africa      22
South Korea            274
Spain    195
Sri Lanka              1
Sudan    1
Sweden   167
Switzerland            87
Syria    1
Tajikistan             3
Thailand               18
Togo     1
Trinidad and Tobago         16
Tunisia 3
Turkey   27
Uganda   1
Ukraine 137
United Arab Emirates        1
United States     1109
Uruguay 1
Uzbekistan             19
Venezuela              4
Vietnam 2
Zimbabwe               2
Time taken: 50.582 seconds,
hive>
```

4. Number of Gold medals won by each country

Command:

```
hive> SELECT Country, COUNT(Gold_Medals) FROM olympics_data GROUP BY Country;
```

Output:

```
Total MapReduce CPU Time Sp
OK
Afghanistan        2
Algeria 8
Argentina          141
Armenia 10
Australia          524
Austria 70
Azerbaijan         25
Bahamas 23
Bahrain 1
Barbados           1
Belarus 92
Belgium 18
Botswana           1
Brazil  220
Bulgaria           36
Cameroon           20
Canada  351
Chile   20
China   450
Chinese Taipei     20
Colombia           13
Costa Rica         1
Croatia 76
Cuba    188
Cyprus  1
Czech Republic     75
Denmark 89
Dominican Republic       5
Ecuador 1
Egypt   8
Eritrea 1
Estonia 16
Ethiopia           24
Finland 112
France  287
Gabon   1
Georgia 23
Germany 552
Great Britain      296
Greece  59
Grenada 1
Guatemala          1
Hong Kong          3
Hungary 132
Iceland 15
India   11
Indonesia          22
Iran    24
Ireland 9
Israel  4
Italy   307
Jamaica 61
Japan   259
Kazakhstan         42
Kenya   38
Kuwait  2
Kyrgyzstan         3
Latvia  17
Lithuania          30
Macedonia          1
Malaysia           3
Mauritius          1
Mexico  38
Moldova 5
Mongolia           10
Montenegro         14
Morocco 10
Mozambique         1
Netherlands        286
New Zealand        51
Nigeria 39
North Korea        21
Norway  158
Panama  1
Paraguay           17
Poland  73
Portugal           9
Puerto Rico        2
Qatar   3
Romania 97
Russia  706
Saudi Arabia       6
Serbia  31
Serbia and Montenegro    38
Singapore          6
Slovakia           33
Slovenia           24
South Africa       22
South Korea        274
Spain   195
Sri Lanka          1
Sudan   1
Sweden  167
Switzerland        87
Syria   1
Tajikistan         3
Thailand           18
Togo    1
Trinidad and Tobago      16
Tunisia 3
Turkey  27
Uganda  1
Ukraine 137
United Arab Emirates     1
United States      1109
Uruguay 1
Uzbekistan         19
Venezuela          4
Vietnam 2
Zimbabwe           2
Time taken: 48.457 seconds,
hive>
```