

Assignment 7.2

Create.hql:

```
CREATE TABLE IF NOT EXISTS olympics3
(
  athele_name String,
  age int,
  country String,
  year String,
  closing_date String,
  sport_name String,
  gold_medals int,
  silver_medals int,
  bronze_medals int,
  total_medals int
)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY '\t';
```

Loading Data from olympix_data:

Load data local inpath '/home/acadgild/olympix_data.csv' overwrite into table olympics3;

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

Solution:

1.hql

```
select country,sum(total_medals) from olympics3 where sport_name  
='Swimming' group by country ;
```

```
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

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: 27.176 seconds, Fetched: 34 row(s)
[acadgild@localhost ~]$ █
```

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

Solution:

2.hql

```
select country,sum(total_medals) from olympics3 where sport_name  
='Swimming' group by country ;
```

```
Total MapReduce CPU Time Spent: 2 seconds 410 msec  
OK  
India    2000    1  
India    2004    1  
India    2008    3  
India    2012    6  
Time taken: 27.167 seconds, Fetched: 4 row(s)  
[acadgild@localhost ~]$
```

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

Solution:

3.hql

```
select country,year,sum(total_medals) from olympics3 where country  
='India' group by country,year;
```

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

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

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

```

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: 24.81 seconds, Fetched: 110 row(s)
[acadgild@localhost ~]$
[acadgild@localhost ~]$ █

```

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

Solution

4.hql

```
select country,sum(gold_medals) from olympics3 group by country ;
```

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

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

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: 24.956 seconds, Fetched: 110 row(s)
[acadgild@localhost ~]$ █
```
