

Session 9: Advance Hive Assignment 1

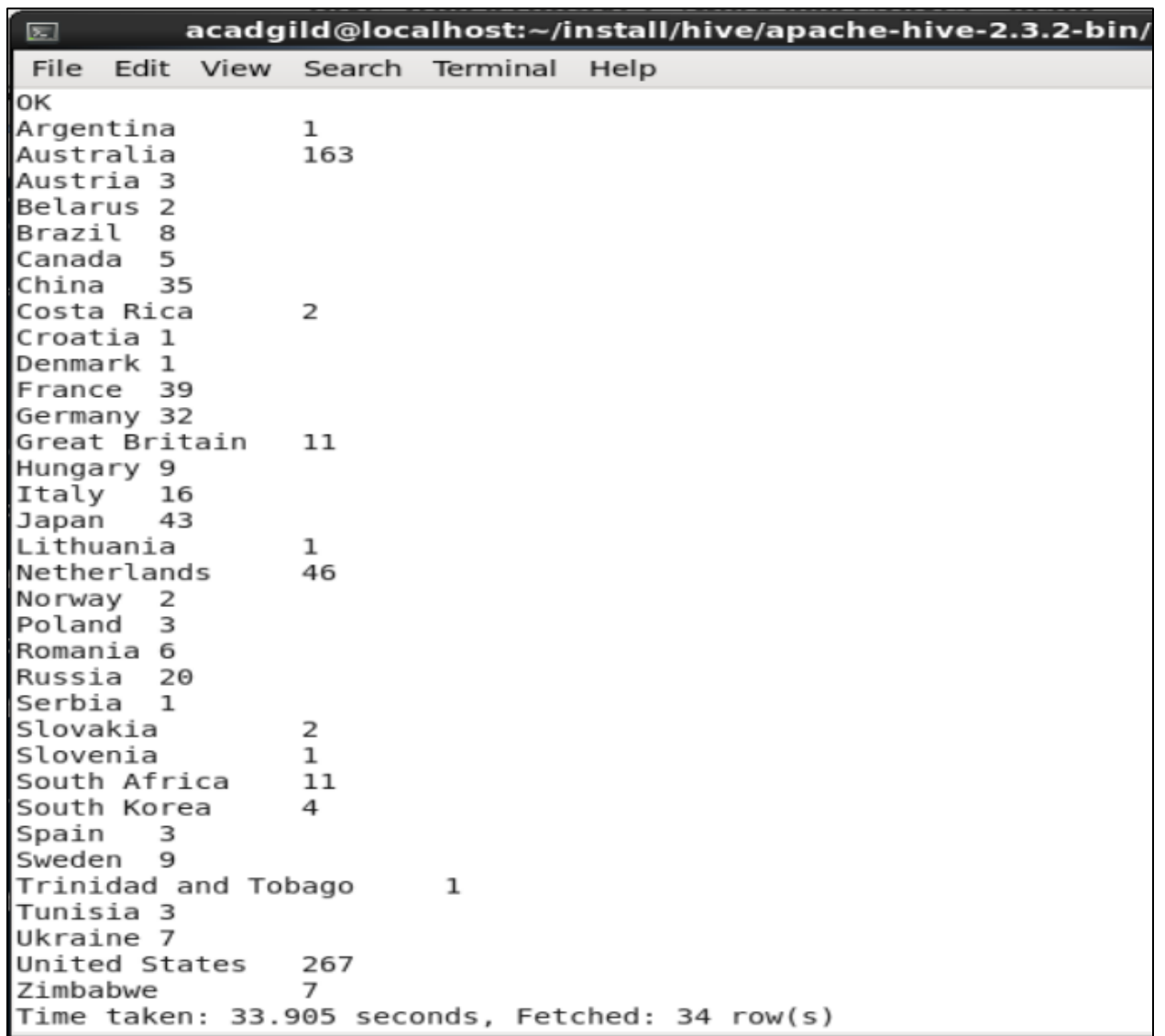
Task 1

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

QUERY:

```
SELECT country,SUM(totalmedal) FROM olympics_data WHERE  
sport='Swimming' GROUP BY country;
```

OUTPUT:



```
acadgild@localhost:~/install/hive/apache-hive-2.3.2-bin/  
File Edit View Search Terminal Help  
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: 33.905 seconds, Fetched: 34 row(s)
```

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

QUERY:

```
SELECT olympicsyear, SUM(totalmedal) FROM olympics_data WHERE country =  
'India' GROUP BY olympicsyear;
```

OUTPUT:

```
Stage: Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 1.0 sec  
DFS Write: 163 SUCCESS  
Total MapReduce CPU Time Spent: 5 seconds 200 ms  
OK  
2000      1  
2004      1  
2008      3  
2012      6  
Time taken: 31.254 seconds, Fetched: 4 row(s)  
hive>
```

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

QUERY:

```
SELECT country, SUM(totalmedal) FROM olympics_data GROUP BY country;
```

OUTPUT:

Total MapReduce CPU Time Spent: 3 seconds

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: 30.12 seconds, Fetched: 110 row(s)
hive> █

```

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

QUERY:

```
SELECT country, SUM(goldmedal) FROM olympics_data GROUP BY country;
```

OUTPUT:

File	Edit	View	Search	Terminal	Help
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: 30.528 seconds, Fetched: 110 row(s)
hive> █