Task 1

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

We have created **olympics** table with all required fields as columns and as we are using csv file **'olympix_data'** to load data into this table, we are using ',' as delimiter to separate column values:

Then we have loaded data from 'olympix_data.csv' file present in local system as shown in below screenshot.

```
hive> load data local inpath '/home/acadgild/olympix_data.csv' into table olympics;
Loading data to table custom.olympics
OK
Time taken: 1.217 seconds
```

```
hive> set hive.cli.print.header = true;
```

Hive Query 1:

Here we are using **GROUP BY** clause to group all the records by using column 'country' and **sum** function to calculate total number of medals for a country in Swimming sport.

select sum(total_medals) Total_Medals, country from olympics where sport='Swimming' group by country;

```
hive select sum(total_medals) Total_Medals, country from olympics where sport='Swimming' group by country;

wakNNING: nive-on-rex is deprecated in nive 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 = acadgild_20180811131343_a2b78b2a-212a-468d-9823-953ddd6624d8

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=<a href="mailto:set hive.exec.reducers.max=cumber">set hive.exec.reducers.max=cumber</a>

In order to limit the maximum number of reducers:

set hive.exec.reducers.max=cumber>

Starting Job = job.1533965770339_0012, Tracking URL = http://localhost:8088/proxy/application_1533965770339_0012/

Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1533965770339_0012

Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1

2018-08-11 13:14:17,937 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.53 sec

2018-08-11 13:14:17,937 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.53 sec

MapReduce Total cumulative CPU time: 8 seconds 70 msec

Ended Job = job_1533965770339_0012

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 8.07 sec HDFS Read: 536679 HDFS Write: 881 SUCCESS

Total MapReduce CPU Time Spent: 8 seconds 70 msec
```

Output of Query 1:

```
total medals
                 country
        Argentina
163
        Australia
3
        Austria
2
        Belarus
8
        Brazil
5
        Canada
35
        China
2
        Costa Rica
1
        Croatia
1
        Denmark
39
        France
32
        Germany
11
        Great Britain
9
        Hungary
16
        Italy
43
        Japan
        Lithuania
46
        Netherlands
2
        Norway
3
        Poland
6
        Romania
20
        Russia
1
        Serbia
2
        Slovakia
1
        Slovenia
        South Africa
11
4
        South Korea
3
        Spain
9
        Sweden
1
        Trinidad and Tobago
3
        Tunisia
        Ukraine
267
        United States
        Zimbabwe
Time taken: 56.876 seconds, Fetched: 34 row(s)
```

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

Here we are using **GROUP BY** clause to group all the records by using column 'year' and sum function to calculate total number of medals for a year in **India** country.

Hive Query 2:

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

```
hive> select sum(total_medals) Total_Medals , year from olympics where country = 'India' group by year;

WARNING: Hive-on-MK 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 = acadgild_2018081131924_14de2f2f-clac-4f86-8ec6-aebc30edd185
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=renumber>
    In order to limit the maximum number of reducers:
    set hive.exec.reducers.max=c-number>
In order to set a constant number of reducers:
    set nive.exec.reducers.max=c-number>
Starting Job = job 1533965770339_0013, Tracking URL = http://localhost:8088/proxy/application_1533965770339_0013/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1533965770339_0013
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2018-08-11 13:19:39,395 Stage-1 map = 0%, reduce = 0%
2018-08-11 13:19:53,306 Stage-1 map = 100%, reduce = 0%, cumulative CPU 4.03 sec
2018-08-11 13:19:53,306 Stage-1 map = 100%, reduce = 0%, cumulative CPU 4.03 sec

MapReduce Total cumulative CPU time: 7 seconds 920 msec

Finded Job = job_1533965770339_0013

MapReduce Obs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.92 sec HDFS Read: 536695 HDFS Write: 163 SUCCESS

Total MapReduce CPU Time Spent: 7 seconds 920 msec

Total MapReduce CPU Time Spent: 7 seconds 920 msec

Total MapReduce CPU Time Spent: 7 seconds 920 msec

Total MapReduce CPU Time Spent: 7 seconds 920 msec

Total MapReduce CPU Time Spent: 7 seconds 920 msec

Total MapReduce CPU Time Spent: 7 seconds 920 msec

Total MapReduce CPU Time Spent: 7 seconds 920 msec

Total MapReduce CPU Time Spent: 7 seconds 920 msec
```

Output:

total_medals year

- 1 2000
- 1 2004
- 3 2008
- 6 2012

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

Here we are using **GROUP BY** clause to group all the records by using column 'country' and sum function to calculate total number of medals for a country.

Hive Query 3:

select sum(total_medals) Total_Medals ,country from olympics group by country;

```
hive-
select sum(total_medals) Total_Medals ,country from olympics group by country;
WARNING: Hive-on-MK 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 = acadgild_20180811132911_d4078c5e-2ef6-49d1-8c15-4eb7066056be
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=enumber>
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 hive.exec.reducers.max=<number>
Starting Job = job_1533965779339_0014, Tracking URL = http://localhost:8088/proxy/application_1533965770339_0014/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1533965770339_0014/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1533965770339_0014/
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2018-08-11 13:29:29,7546 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.65 sec
2018-08-11 13:29:39,193 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 6.13 sec
MapReduce Total cumulative CPU time: 6 seconds 130 msec
Ended Job = job_1533965770339_0014

MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.13 sec HDFS Read: 535861 HDFS Write: 2742 SUCCESS
Total MapReduce CPU Time Spent: 6 seconds 130 msec

KK
```

Output:

```
total_medals
                           country
2
8
              Afghanistan
              Algeria
141
10
              Argentina
              Armenia
609
              Australia
91
              Austria
25
24
1
             Azerbaijan
              Bahamas
              Bahrain
              Barbados
97
18
1
             Belarus
             Belgium
             Botswana
             Botswana
Brazil
Bulgaria
Cameroon
Canada
Chile
China
221
41
20
370
22
530
             Chinese Taipei
Colombia
Costa Rica
Croatia
20
13
2
81
188
              Cuba
             Cyprus
Czech Republic
Denmark
Dominican Republic
Ecuador
1
81
89
5
1
8
1
18
29
118
318
             Egypt
Eritrea
             Estonia
Ethiopia
Finland
              France
```

```
1
23
629
                 Gabon
                 Georgia
                Germany
322
                Great Britain
59
1
1
3
145
                Greece
                Grenada
                Guatemala
                Hong Kong
Hungary
Iceland
15
11
                India
22
24
9
4
                Indonesia
                Iran
                Iran
Ireland
Israel
Italy
Jamaica
331
80
                Japan
Kazakhstan
Kenya
Kuwait
282
42
39
2
3
17
30
1
3
1
38
5
10
14
11
318
52
39
21
                Kyrgyzstan
Latvia
                Lithuania
                Macedonia
Malaysia
Mauritius
Mexico
                Moldova
Mongolia
Montenegro
                Morocco
Mozambique
Netherlands
                New Zealand
Nigeria
North Korea
```

```
192
1
17
80
            Norway
Panama
            Paraguay
            Poland
9
            Portugal
            Puerto Rico
            Qatar
123
768
6
            Romania
            Russia
            Saudi Arabia
31
            Serbia
38
7
35
            Serbia and Montenegro
            Singapore
Slovakia
25
25
            Slovenia
            South Africa
South Korea
308
            Spain
Sri Lanka
Sudan
205
1
1
181
93
            Sweden
            Switzerland
1
            Syria
Tajikistan
3
18
1
19
4
            Thailand
            Togo
Trinidad and Tobago
            Tunisia
28
1
143
1
            Turkey
Uganda
            Ukraine
United Arab Emirates
United States
1
1312
1
19
4
2
7
            Uruguay
Uzbekistan
            Venezuela
            Vietnam
            Zimbabwe
```

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

Here we are using **GROUP BY** clause to group all the records by using column 'country' and sum function to calculate total number of Gold medals for a country.

Hive Query 4:

select sum(gold_medals) Gold_Medals ,country from olympics group by country;

```
hives select sum(gold_medals) Gold_Medals ,country from olympics group by country;

WARNING: Hive-on-MK 1s 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 = acadgild_20180811134058_957864af-002c-416a-82ac-03ebcd80175e
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=cnumber>
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_1533965770339_0015, Tracking URL = http://localhost:8088/proxy/application_1533965770339_0015/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1533965770339_0015/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1533965770339_0015/
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2018-08-11 13:41:13,1386 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.04 sec
2018-08-11 13:41:31,386 Stage-1 map = 100%, reduce = 0% Cumulative CPU 7.65 sec
MapReduce Total cumulative CPU time: 7 seconds 650 msec
Ended Job = job_1533965770339_0015

MapReduce Jobs Launched:
Stage-stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.65 sec HDFS Read: 535852 HDFS Write: 2703 SUCCESS
Total MapReduce CPU Time Spent: 7 seconds 650 msec
```

```
gold_medals
0 Afgh
2 Alge
49 Arge
0 Arme
                                         country
                     Afghanistan
Algeria
Argentina
Armenia
163
                     Australia
36
6
                     Austria
                    Azerbaijan
Bahamas
11
0
0
                     Bahrain
                     Barbados
17
2
0
                     Belarus
                    Belarus
Belgium
Botswana
Brazil
Bulgaria
Cameroon
Canada
Chile
China
46
8
20
168
3
234
2
2
0
35
57
0
14
46
3
0
1
0
6
13
11
108
                    Chinese Taipei
Colombia
Costa Rica
Croatia
                     Cuba
                    Cyprus
Czech Republic
Denmark
Dominican Republic
Ecuador
                    Egypt
Eritrea
Estonia
Ethiopia
Finland
                     France
                     Gabon
```

```
Georgia
               Germany
Great Britain
               Greece
               Grenada
              Guatemala
Hong Kong
Hungary
Iceland
India
Indonesia
              Iran
Ireland
              Israel
              Italy
              Jamaica
              Japan
Kazakhstan
              Kenya
Kuwait
              Kyrgyzstan
Latvia
Lithuania
              Macedonia
              Malaysia
Mauritius
Mexico
Moldova
Mongolia
              Montenegro
              Morocco
Mozambique
Netherlands
New Zealand
              Nigeria
              North Korea
              Norway
```

```
Panama
                      Paraguay
Poland
 20
1
0
0
                      Portugal
Puerto Rico
                      Qatar
Romania
 57
234
0
1
11
0
                      Russia
                      Saudi Arabia
                       Serbia
                      Serbia and Montenegro
                       Singapore
Slovakia
 10
5
10
110
19
0
                       Slovenia
                       South Africa
South Korea
                       Spain
                      Sri Lanka
Sudan
9 Sudan
57 Sweden
21 Switzerland
9 Syria
9 Tajikistan
6 Thailand
9 Togo
1 Trinidad and Tobago
2 Tunisia
9 Turkey
1 Uganda
31 Ukraine
1 United Arab Emirates
552 United States
9 Uruguay
5 Uzbekistan
1 Venezuela
9 Vietnam
2 Zimbabwe
Time taken: 49.215 seconds, Fetched: 110 row(s)
```

Task 2:

Write a hive UDF that implements functionality of string concat_ws(string SEP, array<string>). This UDF will accept two arguments, one string and one array of string.

It will return a single string where all the elements of the array are separated by the SE

We have written below java program 'concatenate.java'.

Evaluate function takes delimiter SEP and Array of Strings (List, in Java) as input.

Then returns word as concatenated string like output of concat ws function.

```
import org.apache.hadoop.hive.ql.exec.UDF;
import org.apache.hadoop.io.Text;
import java.util.List;
public class concatenate extends UDF {
    public Text evaluate(Text SEP,List<String> arr) {
             Text to_value = new Text("");
             if (arr != null) {
                     String word = "";
                           for (int i=0; i<arr.size(); i++) {</pre>
                                  if(i==0)
                                        word =word + arr.get(i);
                                  else
                                        word = word+ SEP + arr.get(i);
                           }
                     to_value.set(word);
              }
             return to_value;
    }
}
```

Then from this java code, we have exported JAR file as 'concatenate.jar'.

After this we have added this JAR file into our VM in path location: /home/acadgild/hive

```
[acadgild@localhost ~]$ ls -l /home/acadgild/hive
total 32
-rw-rw-r--. 1 acadgild acadgild 29069 Aug 12 19:35 concatenate.jar
```

Then we have created a temporary function concatenate below:

```
hive> ADD JAR /home/acadgild/hive/concatenate.jar;
Added [/home/acadgild/hive/concatenate.jar] to class path
Added resources: [/home/acadgild/hive/concatenate.jar]
```

```
hive> CREATE TEMPORARY FUNCTION concatenate as 'concatenate';
OK
Time taken: 0.009 seconds
```

We have created table **array_concat** with columns as sep as string and line as array of strings.

Below is content in array.txt with two fields:

```
[acadgild@localhost ~]$ cat array.txt
-;Sachin,Gorade,Mumbai
*;Acadgild,online,Hadoop,course
~;This,is,Hive,Session
|;We,are,using,UDF,Function,to,replace,concat_ws
```

Then we have loaded data from array.txt file into array_concat table.

```
hive> load data local inpath '/home/acadgild/array.txt' into table array_concat;
Loading data to table custom.array_concat

OK
Time taken: 2.371 seconds
hive> select * from array concat;

OK
- ["Sachin", "Gorade", "Mumbai"]
* ["Acadgild", "online", "Hadoop", "course"]
~ ["This", "is", "Hive", "Session"]
| ["We", "are", "using", "UDF", "Function", "to", "replace", "concat_ws"]

Time taken: 0.35 seconds, Fetched: 4 row(s)
```

This is the output. You could see below that we have used **concatenate** function and used sep and line columns as input from **array_concat** table.

e.g. in first row, '-' is delimiter and strings in array are "Sachin", "Gorade" and "Mumbai".

So concatenated output is Sachin-Gorade-Mumbai.

```
hive> select concatenate(sep,line) from array_concat;

OK
Sachin-Gorade-Mumbai
Acadgild*online*Hadoop*course
This~is~Hive~Session
We|are|using|UDF|Function|to|replace|concat_ws
Time taken: 0.317 seconds, Fetched: 4 row(s)
```

Task 3

Link: https://acadgild.com/blog/transactions-in-hive/

Refer the above given link for transactions in Hive and implement the operations given in the blog using your own sample data set and send us the screenshot.

We are setting below properties in Hive.Because without setting these properties 'Update' and 'Delete' will not work and we will receive errors.

```
hive> set hive.support.concurrency = true;
hive> set hive.enforce.bucketing = true;
hive> set hive.exec.dynamic.partition.mode = nonstrict;
hive> set hive.txn.manager = org.apache.hadoop.hive.ql.lockmgr.DbTxnManager;
hive> set hive.compactor.initiator.on = true;
hive> set hive.compactor.worker.threads = 4;
hive> ■
```

We have created a table with name 'college' and its columns are clg_id, clg_name, clg_loc. We are bucketing this table by clg_id column and using ORC file format.

```
hive> CREATE TABLE college(clg_id int,clg_name string,clg_loc string) clustered by (clg_id) into 5 buckets stored as orc TBLPROPERTIES('t ransactional'='true');

OK

Time taken: 1.449 seconds
hive> show tables;

OK

array_demo
array_demo
array_demo2
college
olympics
Time taken: 0.157 seconds, Fetched: 4 row(s)
hive> select * from college;

OK

Time taken: 0.482 seconds
```

Then we have inserted data into this college table with below insert command:

```
hive> INSERT INTO table college values(1, 'nec', 'nlr'), (2, 'vit', 'vlr'), (3, 'srm', 'chen'), (4, 'lpu', 'del'), (5, 'stanford', 'uk'), (6, 'JNTUA', 'at p'), (7, 'cambridge', 'us');

WARNING: Hive-on-PK 1S deprecated in Hive Z and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tec) or using Hive 1.X releases.

Query ID = acadgild_20180812134732_6b7f69e6-6c4d-4cfb-bb79-5afaecf0b2f7

Total jobs = 1

Launching Job 1 out of 1

Number of reduce tasks determined at compile time: 5

In order to change the average load for a reducer (in bytes):
set hive.exec.reducers.bytes.per.reducer=cnumber>
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 maye-exec.reducers.max=number>

In order to set a constant number of reducers:
set maye-exec.reducers.max=number>

Starting Job = job_1534050476803_0004, Tracking URL = http://localhost:8088/proxy/application_1534050476803_0004/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1534050476803_0004/
K
```

We could see below that 7 rows have been inserted into college table successfully.

```
hive> select * from college;
0K
5
                           uk
         stanford
         JNTUA
                  atp
1
7
2
3
4
         nec
                  nlr
         cambridge
                           us
                  vlr
         vit
                  chen
         srm
                  del
         lpu
Time taken: 0.379 seconds, Fetched: 7 row(s)
```

Now we are inserting same records again into college table and these rows will be appended.

```
hive> INSERT INTO table college values(1, 'nec', 'nlr'),(2, 'vit', 'vlr'),(3, 'srm', 'chen'),(4, 'lpu', 'del'),(5, 'stanford', 'uk'),(6, 'JNTUA', 'at p'),(7, 'cambridge', 'us');

wawnins: mive-oin-mi is deprecated in mive 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.

Ouery ID = acadgild_20180812135521_5c5fb945-6b58-48b3-98a4-d29449cc803
Total jobs = 1
Launching Job | out of 1
Number of reduce tasks determined at compile time: 5
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=<a href="mailto:set">set hive exec. reducers.max=-number>
In order to set a constant number of reducers:

set mapreduce.job. reduces=<a href="mailto:set">set mapreduce.job. reduces=</a> set job. 1534050476803_0006

Kill Command = /home;acadgild/jonstall/hadoop/hadoop/ladoop/hadoop-2.6.5/bin/hadoop job. -kill job.1534050476803_0006

Kallomand = /home;acadgild/jonstall/hadoop/hadoop/hadoop-2.6.5/bin/hadoop job. -kill job.1534050476803_0006

2018-08-12 13:55:51,904 Stage=1 map = 100%, reduce = 0%, Cumulative CPU 4.04
```

We could see data in college table below:

```
hive> select * from college;
0K
5
5
         stanford
                           uk
         stanford
                           uk
6
         JNTUA
                  atp
1
                  nlr
         nec
6
         JNTUA
                  atp
1
                  nlr
         nec
7
7
2
3
         cambridge
                           us
         vit
         cambridge
                           us
         vit
                  chen
         srm
3
         srm
                  chen
4
                  del
         lpu
4
         lpu
                  del
Time taken: 0.293 seconds, Fetched: 14 row(s)
hive>
```

Below we are trying to update bucketed column 'clg_id'. But we have received error.

So it means that we cannot update bucketed column.

```
hive> UPDATE college set clg_id = 8 where clg_id = 7;
FAILED: SemanticException [Error 10302]: Updating values of bucketing columns is not supported. Column clg_id.
```

Below we have performed update on non-bucketed column 'clg_name' and it has been updated successfully.

This means that we can update non-bucketed column.

Below you could see that clg_name has been changed to IIT for clg_id =6

```
hive> select * from college;
0K
         stanford
                           uk
                           uk
         stanford
6
         IIT
                  atp
         nec
                  nlr
6
         IIIT
                  atp
1
         nec
                  nlr
         cambridge
                           us
2
7
2
3
                  vlr
         vit
         cambridge
                           us
         vit
                  vlr
         srm
                  chen
         srm
                  chen
4
         lpu
                  del
4
                  del
         lpu
Time taken: 0.495 seconds, Fetched: 14 row(s)
```

Below we have deleted data having clg_id = 1.

```
hive> delete from college where clg_id=1;

WARNING: Hive-on-NR 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 = acadgild_2018081251007_0d2d84bd-5013-4140-b720-10c4bcf02528
Total jobs = 1
Launching Job | out of 1

Number of reduce tasks determined at compile time: 5
In order to change the average load for a reducer (in bytes):
    set hive-exec.reducers.bytes.per.reducer=remimber>
In order to limit the maximum number of reducers:
    set napreduce, job. reduces-enumber>
In order to set constant number of reducers:
    set mapreduce, job. reduces-enumber>
Starting_lobe | job. | 15404509476803 | 0090, Tracking URL = http://localhost:8088/proxy/application_1534050476803_0009/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job | kill job_1534050476803_0009/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop/hadoop-2.6.5/bin/hadoop/hadoop-2.6.5/bin/hadoop/hadoop-2.6.5/bin/hadoop/hadoop-2.6.5/bin/hadoop/hadoop-2.6.5/bin/hadoop/hadoop-2.6
```

We could see that clg_id having value as 1 has been deleted successfully from college table.

```
hive> select * from college;

OK

S stanford uk

G IIT atp

G IIT atp

Cambridge us

vit vlr

cambridge us

vit vlr

srm chen

srm chen

lpu del

lpu del

Time taken: 0.499 seconds, Fetched: 12 row(s)
```