

## Big Data Hadoop 'Session 9:Advance Hive Assignment 1'

### **DATASET**

This Data set is about Olympics. You can download the data set from the below link:

<https://drive.google.com/open?id=0ByJLBTmJojjzV1czX3Nha0R3bTQ>

### **DATE SET DESCRIPTION**

The data set consists of the following fields

ete:	This field consists of the athlete name
	This field consists of athlete ages
htry:	This fields consists of the country names which participated in Olympics
:	This field consists of the year
ing Date:	This field consists of the closing date of ceremony
t:	Consists of the sports name
Medals:	No. of Gold medals
er Medals:	No. of Silver medals
ize Medals:	No. of Bronze medals
l Medals:	Consists of total no. of medals

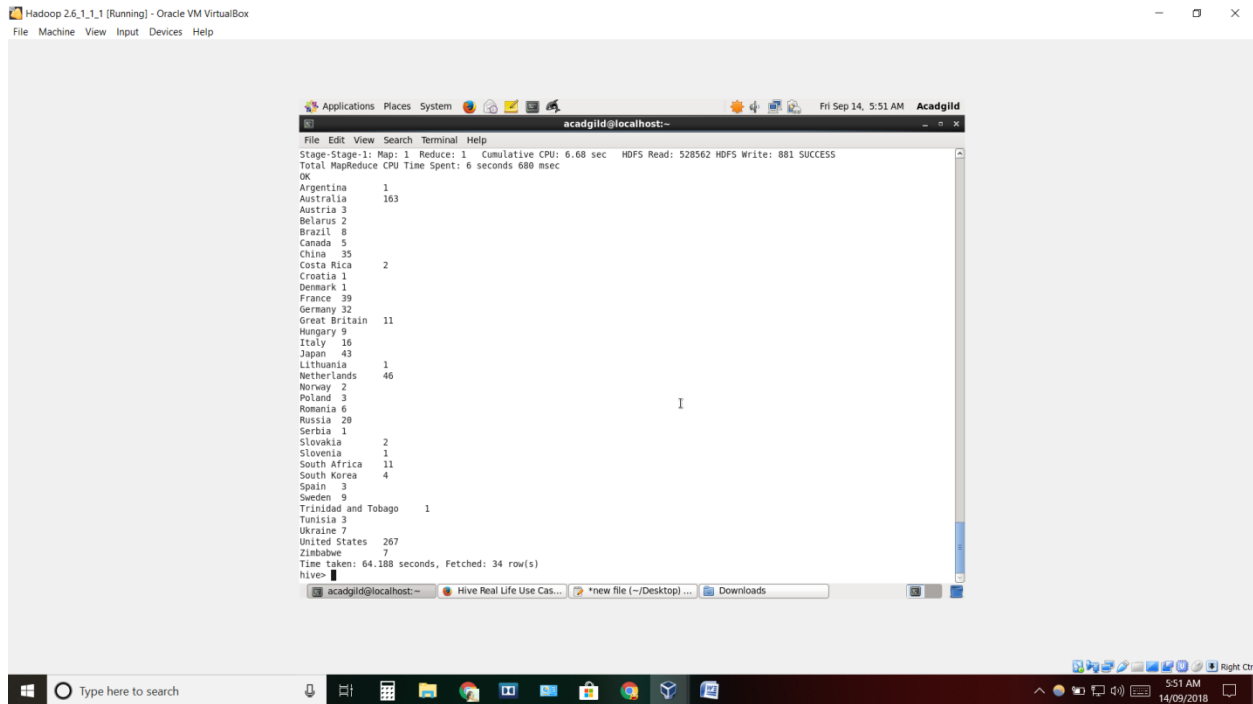
### **LOAD DATA in Hive olympic table**

```
at org.apache.hadoop.util.RunJar.main(RunJar.java:136)
FAILED: ParseException line 1:24 mismatched input '/' expecting StringLiteral near 'inpath' in load statement
hive> load data local inpath '/home/acadgild/Downloads/olympic_data.csv' into table olympic;
Loading data to table=olympic
OK
Time taken: 3.913 seconds
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 = acadgild_20180914054832_d862a9be-30e9-48ac-a7a6-7d1ff3808c4c
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.reducers=<number>
Starting Job = job_1536883831497_0001, Tracking URL = http://localhost:8080/proxy/application_1536883831497_0001/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1536883831497_0001
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2018-09-14 05:49:04.354 Stage-1 map = 0%, reduce = 0%
2018-09-14 05:49:21.115 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.86 sec
2018-09-14 05:49:33.920 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 6.68 sec
MapReduce Total cumulative CPU time: 6 seconds 680 msec
Ended Job = job_1536883831497_0001
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.68 sec HDFS Read: 528562 HDFS Write: 881 SUCCESS
Total MapReduce CPU Time Spent: 6 seconds 680 msec
OK
Argentina 1
Australia 163
Austria 3
Belarus 2
Brazil 8
Canada 5
China 35
Costa Rica 2
```

## Task 1

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

**select country,SUM(total) from olympic where sport = "Swimming" GROUP BY country;**



```
acadmild@localhost:~$ hive
hive> select country,SUM(total) from olympic where sport = "Swimming" GROUP BY country;
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.68 sec HDFS Read: 528562 HDFS Write: 881 SUCCESS
Total MapReduce CPU Time Spent: 6 seconds 680 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: 64.188 seconds, Fetched: 34 row(s)
hive>
```

2. Write a Hive program to find the number of medals that India won year wise.  
**select year,SUM(total) from olympic where country = "India" GROUP BY year;**

```
Hadoop 2.6.1_1 [Running] - Oracle VM VirtualBox
Applications Places System
acadgild@localhost:~
File Edit View Search Terminal Help
Spain 3
Sweden 9
Trinidad and Tobago 1
Tunisia 3
Ukraine 7
United States 267
Zimbabwe 7
Time taken: 64.188 seconds, Fetched: 34 row(s)
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 = acadgild_20180914055859_ccc0b1a7-2a01-46a6-9044-fe34fb0957b3
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_1536883831497_0002, Tracking URL = http://localhost:8088/proxy/application_1536883831497_0002/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1536883831497_0002
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2018-09-14 05:59:15,860 Stage-1 map = 0%, reduce = 0%
2018-09-14 05:59:32,229 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.0 sec
2018-09-14 05:59:45,910 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 7.09 sec
MapReduce Total cumulative CPU time: 7 seconds 90 msec
Ended Job = job_1536883831497_0002
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.09 sec HDFS Read: 528558 HDFS Write: 163 SUCCESS
Total MapReduce CPU Time Spent: 7 seconds 90 msec
OK
2000 1
2004 1
2008 3
2012 6
Time taken: 43.281 seconds, Fetched: 4 row(s)
hive>
```

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

**select country,SUM(total) from olympic GROUP BY country;**

```
Hadoop 2.6.1_1 [Running] - Oracle VM VirtualBox
Applications Places System
acadgild@localhost:~
File Edit View Search Terminal Help
Algeria 8
Argentina 141
Armenia 10
Australia 609
Austria 91
Azerbaijan 25
Bahamas 24
Bahrain 1
Barbados
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
```

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

**select country,SUM(gold) from olympic GROUP BY country;**

The screenshot shows a terminal window titled 'Hadoop 2.6.1\_1 [Running] - Oracle VM VirtualBox'. The terminal prompt is 'acadgild@localhost:~'. The user has executed a Hive query: 'hive> select country, SUM(gold) from olympic GROUP BY country;'. The output shows the execution details, including a warning about Hive-on-MR being deprecated, the query ID, and the results of the aggregation. The results are as follows:

Country	Sum of Gold
Zimbabwe	7
Afghanistan	0
Algeria	2
Argentina	49
Armenia	0
Australia	163
Austria	36
Azerbaijan	6
Bahamas	11
Bahrain	0
Barbados	0
Belarus	17
Belgium	2

**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 SEP.**

**Hive UDF**

```
import java.util.ArrayList;
import org.apache.hadoop.hive.ql.exec.UDF;
public class JoinArray extends UDF{
    public String evaluate (String separator, ArrayList<String> array) {
        StringBuffer sBuffer;
        if (array == null) {
            return null;
        }
        sBuffer = new StringBuffer();
        sBuffer.append(array.get(0));
        for (int i=1; i < array.size(); i++) {
            sBuffer.append(separator);
            sBuffer.append(array.get(i));
        }
        return sBuffer.toString();
    }
}
```

In below screen shot shows following

- Create table emparraynew;
- Describe table emparraynew;
- Load data from local in table emparraynew;
- add jar /home/acadgild/Desktop/empAr.jar;
- create temporary function separa as 'JoinArray.JoinArray';
- select separa(empName,empDesignation) from empArray;

```
Hadoop 2.6.1_1_1 [Running] - Oracle VM VirtualBox
Applications Places System
acadgild@localhost:~
File Edit View Search Terminal Help
FAILED: SemanticException [Error 10001]: Table not found emparraytwo
hive> create table emparraynew(empName string, empDesignation array<string>) row format delimited fields terminated by ',' collection items terminated by ',';
OK
Time taken: 0.889 seconds
hive> describe emparraynew;
OK
empname                string
empdesignat              array<string>
Time taken: 0.166 seconds, Fetched: 2 row(s)
hive> load data local inpath '/home/acadgild/Desktop/empArrayDataset' into table emparraynew;
Loading data to table oly.emparraynew
OK
Time taken: 2.531 seconds
hive> select * from emparraynew;
OK
Alex Analyst    ["Data Engineer"]
Felix Analyst   ["Software Engineer"]
Time taken: 0.35 seconds, Fetched: 2 row(s)
hive> add jar /home/acadgild/Desktop/emp.jar;
/home/acadgild/Desktop/emp.jar does not exist
Query returned non-zero code: 1, cause: /home/acadgild/Desktop/emp.jar does not exist
hive> add jar /home/acadgild/Desktop/emp.jar;
Added [/home/acadgild/Desktop/emp.jar] to class path
Added resources: [/home/acadgild/Desktop/emp.jar]
hive> create temporary function separa as 'JoinArray';
FAILED: Class JoinArray not found
FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.ql.exec.FunctionTask
hive> create temporary function separa as 'JoinArray.JoinArray';
OK
Time taken: 0.02 seconds
hive> select * from separa;
FAILED: SemanticException [Error 10001]: Line 1:14 Table not found 'separa'
hive> select separa(empName,empDesignation) from emparraynew;
OK
Data Engineer
Software Engineer
Time taken: 0.885 seconds, Fetched: 2 row(s)
hive>
```

### 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.

Enabling ACID transactions in HIVE by using flowing tables.

```
class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]

Logging initialized using configuration in jar:file:/home/acadgild/install/hive/
apache-hive-2.3.2-bin/lib/hive-common-2.3.2.jar!/hive-log4j2.properties Async: t
rue
Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engi
ne (i.e. spark, tez) or using Hive 1.X releases.
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 = a positive number on at least one instance of the Thrift metastore service;
Query returned non-zero code: 1, cause: 'SET hive.compactor.worker.threads=a positive number on at least one instance of the
Thrift metastore service' FAILED because hive.compactor.worker.threads expects INT type value.
hive> set hive.compactor.worker.threads = a positive number on at least one instance of the Thrift metastore service;You have
new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/log4j-slf4j-impl-2.6.2.jar!/org.slf4j
/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!
/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]

Logging initialized using configuration in jar:file:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/hive-common-2.3.2.j
ar!/hive-log4j2.properties Async: true
Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engi
ne (i.e. spark, tez) or using Hive 1.X releases.
hive> set hive.compactor.worker.threads = 1;
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>
```

## Create table and Insert data in table college;

```
Logging initialized using configuration in jar:file:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/hive-common-2.3.2.j
ar!/hive-log4j2.properties Async: true
Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engi
ne (i.e. spark, tez) or using Hive 1.X releases.
hive> set hive.compactor.worker.threads = 1;
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> CREATE TABLE college(clg_id int,clg_name string,clg_loc string) clustered by (clg_id) into 5 buckets stored as orc TBLP
ROPERTIES('transactional'='true');
OK
Time taken: 10.002 seconds
hive> INSERT INTO table college values(1,'nec','nlr'),(2,'vit','vlr'),(3,'srm','chen'),(4,'lpu','del'),(5,'stanford','uk'),(6
,'JNTUA','atp'),(7,'cambridge','us');
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execu
tion engine (i.e. spark, tez) or using Hive 1.X releases.
Query ID = acadgild_20180915143253_618d1dc7-636f-4499-84c8-5b0ccd5cb1e1
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=<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_1537000490144_0001, Tracking URL = http://localhost:8088/proxy/application_1537000490144_0001/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1537000490144_0001
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 5
2018-09-15 14:33:24,467 Stage-1 map = 0%, reduce = 0%
2018-09-15 14:33:37,795 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.04 sec
2018-09-15 14:34:15,508 Stage-1 map = 100%, reduce = 27%, Cumulative CPU 4.7 sec
2018-09-15 14:34:16,857 Stage-1 map = 100%, reduce = 40%, Cumulative CPU 5.58 sec
2018-09-15 14:34:18,225 Stage-1 map = 100%, reduce = 53%, Cumulative CPU 6.57 sec
2018-09-15 14:34:19,690 Stage-1 map = 100%, reduce = 67%, Cumulative CPU 9.09 sec
2018-09-15 14:34:35,821 Stage-1 map = 100%, reduce = 77%, Cumulative CPU 14.53 sec
```

## Check data in table after insertion



```
Hadoop 2.6.1_1 [Running] - Oracle VM VirtualBox
Applications Places System
acadgild@localhost:~$
File Edit View Search Terminal Help
2018-09-15 14:34:37,572 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 23.01 sec
MapReduce Total cumulative CPU time: 23 seconds 580 msec
Ended Job = job_1537000490144_0001
Loading data to table default.college
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 5 Cumulative CPU: 23.58 sec HDFS Read: 26737 HDFS Write: 4001 SUCCESS
Total MapReduce CPU Time Spent: 23 seconds 580 msec
OK
Time taken: 109.452 seconds
hive> select * from college;
OK
5      stanford      uk
6      JNTUA      atp
1      nec      nlr
7      cambridge      us
2      vit      vlr
3      srm      chen
4      lpu      del
Time taken: 0.542 seconds, Fetched: 7 row(s)
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.
hive> UPDATE college set clg_name = 'IIT' where clg_id = 6;
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 = acadgild_20180915143552_e43621c3-29a4-49b9-af0b-6dc8f326aaa7
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=<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_1537000490144_0002, Tracking URL = http://localhost:8088/proxy/application_1537000490144_0002/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1537000490144_0002
Hadoop job information for Stage-1: number of mappers: 5; number of reducers: 5
2018-09-15 14:36:06,860 Stage-1 map = 0%, reduce = 0%
```

## Updating the Data in Hive Table College

```
hive> UPDATE college set clg_name = 'IIT' where clg_id = 6;
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 = acadgild_20180915143552_e43621c3-29a4-49b9-af0b-6dc8f326aaa7
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=<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_1537000490144_0002, Tracking URL = http://localhost:8088/proxy/application_1537000490144_0002/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1537000490144_0002
Hadoop job information for Stage-1: number of mappers: 5; number of reducers: 5
2018-09-15 14:36:06,860 Stage-1 map = 0%, reduce = 0%
2018-09-15 14:37:05,577 Stage-1 map = 60%, reduce = 0%, Cumulative CPU 13.16 sec
2018-09-15 14:37:09,097 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 19.28 sec
2018-09-15 14:37:47,637 Stage-1 map = 100%, reduce = 27%, Cumulative CPU 21.29 sec
2018-09-15 14:37:51,961 Stage-1 map = 100%, reduce = 53%, Cumulative CPU 24.11 sec
2018-09-15 14:37:53,354 Stage-1 map = 100%, reduce = 67%, Cumulative CPU 25.14 sec
2018-09-15 14:37:58,998 Stage-1 map = 100%, reduce = 73%, Cumulative CPU 27.85 sec
2018-09-15 14:38:00,434 Stage-1 map = 100%, reduce = 80%, Cumulative CPU 29.48 sec
2018-09-15 14:38:01,563 Stage-1 map = 100%, reduce = 93%, Cumulative CPU 31.82 sec
2018-09-15 14:38:02,622 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 32.9 sec
MapReduce Total cumulative CPU time: 32 seconds 900 msec
```

```

Time taken: 133.148 seconds
hive> select * from college;
OK
5      stanford      uk
6      IIT      atp
1      nec      nlr
7      cambridge      us
2      vit      vlr
3      srm      chen
4      lpu      del
Time taken: 0.543 seconds, Fetched: 7 row(s)
hive>

```

## Deleting a Row from Hive Table College

```

hive> delete from college where clg_id=5;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future
release engine (i.e. spark, tez) or using Hive 1.X releases.
Query ID = acadgild_20180915144718_dbc82677-e082-496e-a058-f6f6c6a6855e

```

```

Hadoop 2.6.1_1.1 [Running] - Oracle VM VirtualBox
Applications Places System
acadgild@localhost:~
Browse and run installed applications
File Edit View Search Terminal Help
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_1537000490144_0003, Tracking URL = http://localhost:8088/proxy/application_1537000490144_0003/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1537000490144_0003
Hadoop job information for Stage-1: number of mappers: 5; number of reducers: 5
2018-09-15 14:47:31,683 Stage-1 map = 0%, reduce = 0%
2018-09-15 14:48:33,059 Stage-1 map = 0%, reduce = 0%, Cumulative CPU 11.43 sec
2018-09-15 14:49:06,071 Stage-1 map = 80%, reduce = 0%, Cumulative CPU 20.3 sec
2018-09-15 14:49:10,359 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 23.23 sec
2018-09-15 14:49:46,231 Stage-1 map = 100%, reduce = 27%, Cumulative CPU 23.23 sec
2018-09-15 14:49:48,898 Stage-1 map = 100%, reduce = 40%, Cumulative CPU 26.33 sec
2018-09-15 14:49:50,265 Stage-1 map = 100%, reduce = 53%, Cumulative CPU 28.48 sec
2018-09-15 14:49:51,647 Stage-1 map = 100%, reduce = 67%, Cumulative CPU 30.05 sec
2018-09-15 14:49:55,946 Stage-1 map = 100%, reduce = 73%, Cumulative CPU 32.05 sec
2018-09-15 14:49:57,386 Stage-1 map = 100%, reduce = 80%, Cumulative CPU 33.1 sec
2018-09-15 14:49:58,712 Stage-1 map = 100%, reduce = 87%, Cumulative CPU 34.72 sec
2018-09-15 14:49:59,934 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 36.97 sec
MapReduce Total cumulative CPU time: 36 seconds 970 msec
Ended Job = job_1537000490144_0003
Loading data to table default.college
MapReduce Jobs Launched:
Stage-Stage-1: Map: 5 Reduce: 5 Cumulative CPU: 36.97 sec HDFS Read: 49873 HDFS Write: 752 SUCCESS
Total MapReduce CPU Time Spent: 36 seconds 970 msec
OK
Time taken: 165.172 seconds
hive> select * from college;
OK
6      IIT      atp
1      nec      nlr
7      cambridge      us
2      vit      vlr
3      srm      chen
4      lpu      del
Time taken: 1.009 seconds, Fetched: 6 row(s)
hive>

```