#### **ASSIGNMENT 9.1**

#### TASK1:

Table 'AthleteData' is created and data 'olympix\_data.csv' is loaded into the table shown below.

```
    acadgild@localhost:∼
```

```
hive> CREATE TABLE AthleteData

> (
> name STRING,
> age INT,
> country STRING,
> year1 STRING,
> close_date STRING,
> sport STRING,
> sport STRING,
> gold_medal INT,
> silver_medal INT,
> bronze_medal INT,
> total_medal INT)
> ROW FORMAT DELIMITED
> FIELDS TERMINATED BY '\t';

OK

Time taken: 0.133 seconds
hive>
```

```
🧬 acadgild@localhost:~
  hive> LOAD DATA LOCAL INPATH '/home/acadgild/olympix_data.csv' INTO TABLE AthleteData;
   oading data to table olympic.athletedata
 Time taken: 0.668 seconds
hive> select * from AthleteData LIMIT 15;
OK
Michael Phelps 23 United States 2008 08
Michael Phelps 19 United States 2004 08
Michael Phelps 27 United States 2012 08
Natalie Coughlin 25 United States 20
Aleksey Nemov 24 Russia 2000 10-01-00
Alicia Coutts 24 Australia 2012 08
Missy Franklin 17 United States 2012 08
Ryan Lochte 27 United States 2012 08
Allison Schmitt 22 United States 2012 08
Natalie Coughlin 21 United States 2012 08
Natalie Coughlin 21 United States 2012 08
Office States 2012 08
Natalie Coughlin 21 United States 2012 08
Office States 2012 08
Natalie Coughlin 21 United States 2012 08
Dara Torres 33 United States 2000 19
Dara Torres 33 United States 2000 19
Dara Torres 33 United States 2000 19
Dara Torres 34 United States 2000 19
Dara Torres 35 United States 2000 19
Dara Torres 27 Norway 2010 02-28-10
Time taken: 0.257 seconds, Fetched: 15 row(s)
                                                                                                                                                                          Swimming
Swimming
                                                                                                                                  08-24-08
                                                                                                                                   08-29-04
                                                                                                                                   08-12-12
                                                                                                                                                                             Swimming
                                                                                                                               2008 08-24-08
00 Gymnastics
                                                                                                                                                                                               Swimming
2 1
                                                                                                            10-01-00 Gymnastics 2
2012 08-12-12 Swimming
2012 08-12-12 Swimming
2012 08-12-12 Swimming
2012 08-12-12 Swimming
                                                                                                                                   2004 08-29-04
                                                                                                                                  10-01-00 Swimming
10-01-00 Swimming
                                                                                                            02-26-06 Speed Skating 1
                                                                                                        2008 08-24-08
02-28-10 Cro
                                                                                                                                                                   Gymnastics
  Marit Bjørgen 29 Norway 2010 02-28
Time taken: 0.257 seconds, Fetched: 15 row(s)
                                                                                                                                                      Cross Country Skiing
```

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

Syntax: SELECT country, SUM(total\_medal) FROM AthleteData

WHERE sport = 'Swimming'

GROUP BY country;

💤 acadgild@localhost:~

```
hive> SELECT country,SUM(total_medal) FROM AthleteData
       WHERE sport = 'Swimming
       GROUP BY country;
JARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a diff
 1.X releases.
Query ID = acadgild 20180215011301 01d575a0-5a45-46ac-b307-bba6a49bdf22
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_1518445375024_0124, Tracking URL = http://localhost:8088/proxy/application_1518445375024_0124/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1518445375024_0124
 Madoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2018-02-15 01:13:10,828 Stage-1 map = 0%, reduce = 0%
2018-02-15 01:13:18,398 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.45 sec
2018-02-15 01:13:26,996 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 5.99 sec
MapReduce Total cumulative CPU time: 5 seconds 990 msec
Ended Job = job_1518445375024_0124
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 5.99 sec HDFS Read: 528768 HDFS Write: 881 SUCCESS
Total MapReduce CPU Time Spent: 5 seconds 990 msec
```

## Output:

#### acadgild@localhost: acadgild@localhost:

```
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 5.99 sec
Total MapReduce CPU Time Spent: 5 seconds 990 msec
OK
Argentina 1
Australia 163
Austria 3
Belarus 2
Brazil 8
Canada 5
China 35
Costa Rica 2
Croatia 1
 Croatia 1
Denmark 1
France 39
Germany 32
Great Britain
 Hungary 9
Italy 16
Japan 43
 Lithuania
 Netherlands
 Norway 2
Poland 3
 Romania 6
Russia 20
Serbia 1
 Slovenia
 South Africa
 South Korea
 Spain
 Sweden 9
 Trinidad and Tobago
 Tunisia 3
Ukraine 7
 United States 267
Zimbabwe 7
 Zimbabwe 7
Time taken: 26.387 seconds, Fetched: 34 row(s)
```

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

Syntax: SELECT year1, total medal FROM AthleteData

WHERE country = 'India'

GROUP BY year1,total\_medal

ORDER BY year1;

```
🧬 acadgild@localhost:~
hive> SELECT year1,total_medal FROM AthleteData
          WHERE country = 'India'
          GROUP BY year1, total medal
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different
 1.X releases.
 Query ID = acadgild_20180215011903_b4d836df-15b1-4651-8f2a-4d598f8eb7e5
Total jobs = 2
 aunching Job 1 out of 2
  umber 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.bvtes.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_1518445375024_0125, Tracking URL = http://localhost:8088/proxy/application_1518445375024_0125/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1518445375024_0125
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
 2018-02-15 01:19:12,419 Stage-1 map = 0%, reduce = 0%
2018-02-15 01:19:19,959 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.55 sec
2018-02-15 01:19:27,472 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 6.09 sec
MapReduce Total cumulative CPU time: 6 seconds 90 msec
Ended Job = job_1518445375024_0125
Launching Job 2 out of 2
 Jumber of reduce tasks determined at compile time: 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 1518445375024_0126, Tracking URL = http://localhost:8088/proxy/application_1518445375024_0126/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1518445375024_0126
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1518445375024_0126
Hadoop job information for Stage-2: number of mappers: 1; number of reducers: 1
2018-02-15 01:19:40,674 Stage-2 map = 0%, reduce = 0%
2018-02-15 01:19:47,148 Stage-2 map = 100%, reduce = 0%, Cumulative CPU 1.59 sec
2018-02-15 01:19:54,652 Stage-2 map = 100%, reduce = 100%, Cumulative CPU 4.28 sec
MapReduce Total cumulative CPU time: 4 seconds 280 msec
Ended Job = job_1518445375024_0126
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.09 sec HDFS Read: 527603 HDFS Write: 188 SUCCESS
Total MapReduce CPU Time Spent: 10 seconds 370 msec
 Total MapReduce CPU Time Spent: 10 seconds 370 msec
```

#### Output:

```
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 4.28 sec HDFS Read: 5683 HDFS Write: 163 SUCCESS
Total MapReduce CPU Time Spent: 10 seconds 370 msec
OK
2000 1
2004 1
2008 1
2012 1
Time taken: 52.569 seconds, Fetched: 4 row(s)
hive>
```

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

**Syntax:** SELECT country,SUM(total\_medal) FROM AthleteData GROUP BY country;

```
Pive SELECT country, SUM (total_medal) FROM AthleteData

> GROUP BY country;

WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a difference of the first state of t
```

## 🧬 acadgild@localhost:~

```
Afghanistan
Algeria 8
Argentina
                   141
Armenia 10
Australia
Austria 91
Azerbaijan
Bahamas 24
Bahrain 1
Barbados
Belarus 97
Belgium 18
Botswana
Brazil 221
Bulgaria
Cameroon
                   20
Canada 370
Chile 22
Chinese Taipei 20
Colombia
Costa Rica
Croatia 81
Cuba 188
Cyprus 1
Czech Republic 81
Denmark 89
Dominican Republic
Ecuador 1
Egypt 8
Eritrea 1
Estonia 18
Ethiopia
Finland 118
France 318
Gabon 1
Georgia 23
Germany 629
```

### 🧬 acadgild@localhost:~

```
Georgia 23
Germany 629
Great Britain
Greece 59
Grenada 1
Guatemala
Hong Kong
Hungary 145
Iceland 15
India 11
Indonesia
Iran 24
Ireland 9
Israel 4
Italy 331
Jamaica 80
Japan 282
Kazakhstan
Kenya 39
Kuwait 2
Kyrgyzstan
Latvia 17
Lithuania
Macedonia
Malaysia
Mauritius
Mexico 38
Moldova 5
Mongolia
Montenegro
Morocco 11
Mozambique
Netherlands
New Zealand
Nigeria 39
North Korea
Norway 192
Panama
```

```
Panama 1
Paraguay
               17
Poland 80
Portugal
               9
Puerto Rico
               2
Qatar 3
Romania 123
Russia 768
Saudi Arabia
Serbia 31
Serbia and Montenegro
                      38
Singapore
Slovakia
               35
Slovenia
South Africa
South Korea
               308
Spain 205
Sri Lanka
Sudan 1
Sweden 181
Switzerland
               93
Syria 1
Tajikistan
Thailand
               18
Togo 1
Trinidad and Tobago
                      19
Tunisia 4
Turkey 28
Uganda 1
Ukraine 143
United Arab Emirates
United States 1312
Uruguay 1
Uzbekistan
              19
Venezuela
Vietnam 2
Zimbabwe
Time taken: 25.57 seconds, Fetched: 110 row(s)
hive>
```

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

**Syntax:** SELECT country, SUM(gold\_medal) FROM AthleteData GROUP BY country;

```
률 acadgild@localhost:~
hive> SELECT country,SUM(gold_medal) FROM AthleteData
                             GROUP BY country:
 WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a diff
 1.X releases.
Query ID = acadgild_20180215012855_42bf1d3d-4180-4ee5-bffb-20118712eb98
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 1518445375024_0128, Tracking URL = http://localhost:8088/proxy/application 1518445375024_0128/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1518445375024_0128
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2018-02-15 01:29:04,372 Stage-1 map = 0%, reduce = 0%
2018-02-15 01:29:12,215 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.77 sec
2018-02-15 01:29:19,723 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 5.41 sec
MapReduce Total cumulative CPU time: 5 seconds 410 msec
Ended Job = job_1518445375024_0128
MapReduce Jobs Launched:
Stage-5tage-1: Map: 1 Reduce: 1 Cumulative CPU: 5.41 sec HDFS Read: 527960 HDFS Write: 2703 SUCCESS Total MapReduce CPU Time Spent: 5 seconds 410 msec
```

## Output:

### 🗬 acadgild@localhost:~

```
OK
Afghanistan
Algeria 2
Argentina
Armenia O
Australia
Austria 36
Azerbaijan
Bahamas 11
Bahrain O
Barbados
Belarus 17
Belgium 2
Botswana
Brazil 46
Bulgaria
Cameroon
Canada 168
Chile 3
China 234
Chinese Taipei
Colombia
Costa Rica
Croatia 35
Cuba 57
Cyprus O
Czech Republic 14
Denmark 46
Dominican Republic
Ecuador O
Egypt 1
Eritrea O
Estonia 6
Ethiopia
Finland 11
France 108
Gabon O
Georgia 6
Germany 223
```

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 O	
Kyrgyzstan	0
Latvia 3	
Lithuania	5
Macedonia	0
Malaysia	0
Mauritius	0
Mexico 19	
Moldova O	
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
Puerto Rico
Qatar O
Romania 57
Russia 234
Saudi Arabia
Serbia 1
Serbia and Montenegro
Singapore 0
Slovakia 10
               10
Slovenia
South Africa
South Korea
               110
Spain 19
Sri Lanka
Sudan 0
Sweden 57
Switzerland
               21
Syria O
Tajikistan
Thailand
Togo 0
Trinidad and Tobago
Tunisia 2
Turkey 9
Uganda 1
Ukraine 31
United Arab Emirates 1
United States 552
Uruguay O
Uzbekistan
Venezuela
Vietnam O
Zimbabwe
Time taken: 25.64 seconds, Fetched: 110 row(s)
```

TASK2: Hive UDF that implements functionality of string concat\_ws(string SEP, array<string>).

For this task table **employee** is created with compex data types and data is loaded from employee\_data.txt as shown below:

Adding the jar file **concatWS.jar** of hive Generic UDF **CONCAT\_WS**.

```
acadgild@localhost:~
hive> add jar /home/acadgild/Desktop/concatWS.jar;
Added [/home/acadgild/Desktop/concatWS.jar] to class path
Added resources: [/home/acadgild/Desktop/concatWS.jar]
hive>
```

Creating temporary function **concatws**.

```
acadgild@localhost:~
hive> create temporary function concatws as 'Task4.GenericUDFConcatWS';

OK
Time taken: 0.002 seconds

hive>
```

Sample output using concatws hive udf from table employee:-

```
acadgild@localhost:~
               name, concatws(name,work place) from employee;
Michael MontrealMichaelToronto
        MontrealWillNew YorkWillViginia
Will
Shelley New YorkShelleyVancouverShelleyMontreal
Lucy VancouverLucyMontrealLucyVirginiaLucyNew York
Time taken: 0.133 seconds, Fetched: 4 row(s)
hive> SELECT name, concatws("++++",work_place) from employee;
Michael Montreal++++Toronto
        Montreal++++New York++++Viginia
Shelley New York++++Vancouver++++Montreal
Lucy Vancouver++++Montreal++++Virginia++++New York
Time taken: 0.156 seconds, Fetched: 4 row(s) hive> SELECT concatws(" ",work_place) from employee;
Montreal Toronto
Montreal New York Viginia
New York Vancouver Montreal
Vancouver Montreal Virginia New York
Time taken: 0.149 seconds, Fetched: 4 row(s)
hive>
```

### TASK3: Transaction in hive

Properties to be enable to work with transactions in hive:

```
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 = 1;
hive>
```

## Creating a sample table 'bank' with table property 'transactional'

🧬 acadgild@localhost:~

Inserting sample data row wise into hive table 'bank'.

```
hive> INSERT INTO table bank values
             (1,'aman','1500'),(2,'gatij','2500'),(3,'keshav','3000'),
(4,'pravesh','1000'),(5,'jatin','3500'),(6,'nivedita','1000'),
              (7,'suchetna','4500');
 WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a diffe
  1.X releases.
Query ID = acadgild_20180215004454_6514a31a-f213-4291-a008-b74dc35a955d
 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_1518445375024_0120, Tracking URL = http://localhost:8088/proxy/application_1518445375024_0120/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1518445375024_0120
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 5
2018-02-15 00:45:08,586 Stage-1 map = 0%, reduce = 0%
2018-02-15 00:45:16,487 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.45 sec
2018-02-15 00:45:34,150 Stage-1 map = 100%, reduce = 13%, Cumulative CPU 5.52 sec
2018-02-15 00:45:38,063 Stage-1 map = 100%, reduce = 27%, Cumulative CPU 7.54 sec
2018-02-15 00:45:41,959 Stage-1 map = 100%, reduce = 47%, Cumulative CPU 13.0 sec
2018-02-15 00:45:44,527 Stage-1 map = 100%, reduce = 60%, Cumulative CPU 13.16 sec
2018-02-15 00:45:45,794 Stage-1 map = 100%, reduce = 80%, Cumulative CPU 20.55 sec
2018-02-15 00:45:49,508 Stage-1 map = 100%, reduce = 87%, Cumulative CPU 23.59 sec
2018-02-15 00:45:50,652 Stage-1 map = 100%, reduce = 87%, Cumulative CPU 29.18 sec
MapReduce Total cumulative CPU time: 29 seconds 180 msec
Ended Job = job 1518445375024 0120
Loading data to table default.bank
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 5 Cumulative CPU: 29.18 sec HDFS Read: 26759 HDFS
 Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 5
 Stage-Stage-1: Map: 1 Reduce: 5 Cumulative CPU: 29.18 sec HDFS Read: 26759 HDFS Write: 4006 SUCCESS
Total MapReduce CPU Time Spent: 29 seconds 180 msec
 Time taken: 59.803 seconds
hive>
```

# acadgild@localhost:~

```
hive> SELECT * FROM bank;
OK
5
                 3500
        jatin
6
        nivedita
                         1000
1
        aman
                 1500
7
                         4500
        suchetna
        gatij
                2500
        keshav
                3000
4
        pravesh 1000
Time taken: 0.292 seconds, Fetched: 7 row(s)
hive>
```

Re-Inserting the data in the table and it will append successfully.

```
🚜 acadqild@localhost:~
```

```
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a differe
 1.X releases.
Query ID = acadgild 20180215004734 ac1d748a-9ded-41c2-ae6a-3879a101a163
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>
  set mapreduce.job.reduces=<number>
Starting Job = job_1518445375024_0121, Tracking URL = http://localhost:8088/proxy/application_1518445375024_0121/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1518445375024_0121
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 5
2018-02-15 00:47:42,844 Stage-1 map = 0%, reduce = 0% Cumulative CPU 3.11 sec
2018-02-15 00:47:49,738 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.11 sec
2018-02-15 00:48:05,450 Stage-1 map = 100%, reduce = 13%, Cumulative CPU 5.09 sec
2018-02-15 00:48:11,823 Stage-1 map = 100%, reduce = 27%, Cumulative CPU 7.24 sec
2018-02-15 00:48:15,475 Stage-1 map = 100%, reduce = 37%, Cumulative CPU 9.78 sec 2018-02-15 00:48:15,475 Stage-1 map = 100%, reduce = 47%, Cumulative CPU 12.07 sec 2018-02-15 00:48:16,711 Stage-1 map = 100%, reduce = 60%, Cumulative CPU 14.34 sec 2018-02-15 00:48:17,942 Stage-1 map = 100%, reduce = 80%, Cumulative CPU 19.55 sec
2018-02-15 00:48:20,379 Stage-1 map = 100%, reduce = 87%, Cumulative CPU 22.11 sec
2018-02-15 00:48:21,566 Stage-1 map = 100%, reduce = 93%, Cumulative CPU 24.43 sec
2018-02-15 00:48:22,672 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 26.75 sec
MapReduce Total cumulative CPU time: 26 seconds 750 msec
Ended Job = job_1518445375024_0121
Loading data to table default.bank
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 5 Cumulative CPU: 26.75 sec HDFS Read: 26614 HDFS Write: 4008 SUCCESS Total MapReduce CPU Time Spent: 26 seconds 750 msec
Time taken: 50.131 seconds
```

Output of appended data by INSERT clause.

```
    acadgild@localhost:

    ~
```

```
hive> select * from bank;
OK
5
               3500
       jatin
              3500
       jatin
       nivedita
                      1000
       aman 1500
6
       nivedita
                      1000
       aman 1500
                      4500
       suchetna
       gatij 2500
                      4500
       suchetna
       gatij 2500
       keshav 3000
       keshav 3000
       pravesh 1000
       pravesh 1000
Time taken: 0.254 seconds, Fetched: 14 row(s)
hive>
```

Below shows the error stating that **UPDATE** is not supported the bucked column

```
Facadgild@localhost~
hive> UPDATE bank set emp_id = 8 where emp_id = 7;

PAILED: SemanticException [Error 10302]: Updating values of bucketing columns is not supported. Column emp_id.

hive>
```

Updating the non bucket column.

```
🧬 acadgild@localhost:~
hive> UPDATE bank set emp name = 'sumit' where emp id = 1;
WARNING: Hive-on-NR is deprecated in Hive 2 and may not be available in the future versions. Consider using a diffe
 1.X releases.
Query ID = acadgild 20180215005248 371f7a75-c609-44c5-a858-e4acf54b0d91
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_1518445375024_0122, Tracking URL = http://localhost:8088/proxy/application_1518445375024_0122/
Kill Command = /home/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1518445375024_0122
Hadoop job information for Stage-1: number of mappers: 5; number of reducers: 5
2018-02-15 00:52:58,214 Stage-1 map = 0%, reduce = 0%, Cumulative CPU 7.57 sec 2018-02-15 00:53:22,368 Stage-1 map = 20%, reduce = 0%, Cumulative CPU 7.57 sec 2018-02-15 00:53:25,946 Stage-1 map = 40%, reduce = 0%, Cumulative CPU 12.71 sec 2018-02-15 00:53:30,045 Stage-1 map = 60%, reduce = 0%, Cumulative CPU 20.22 sec 2018-02-15 00:53:31,267 Stage-1 map = 80%, reduce = 0%, Cumulative CPU 21.56 sec
2018-02-15 00:53:33,883 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 23.23 sec 2018-02-15 00:53:49,895 Stage-1 map = 100%, reduce = 27%, Cumulative CPU 27.04 sec 2018-02-15 00:53:52,345 Stage-1 map = 100%, reduce = 40%, Cumulative CPU 29.17 sec 2018-02-15 00:53:53,578 Stage-1 map = 100%, reduce = 67%, Cumulative CPU 33.43 sec 2018-02-15 00:53:54,720 Stage-1 map = 100%, reduce = 93%, Cumulative CPU 38.34 sec
2018-02-15 00:53:55,799 Stage-1 map = 100%,
MapReduce Total cumulative CPU time: 39 seconds 30 msec
Ended Job = job_1518445375024_0122
Loading data to table default.bank
MapReduce Jobs Launched:
Stage-Stage-1: Map: 5 Reduce: 5 Cumulative CPU: 39.03 sec HDFS Read: 55866 HDFS Write: 943 SUCCESS
Total MapReduce CPU Time Spent: 39 seconds 30 msec
Time taken: 68.916 seconds
```

### Output of the **UPDATE** data

```
<page-header> acadgild@localhost:~
```

```
hive> SELECT * FROM bank;
OK
                3500
        jatin
                3500
        jatin
        nivedita
                        1000
6
1
                1500
        sumit
                        1000
6
        nivedita
                1500
        sumit
        suchetna
                        4500
        gatij 2500
        suchetna
                        4500
        gatij
               2500
        keshav 3000
        keshav 3000
        pravesh 1000
        pravesh 1000
Time taken: 0.225 seconds, Fetched: 14 row(s)
hive>
```

## Deleting the row data from the table;

```
Pietr from bank where emp id=5:

Nive | DELETE from bank where emp id=5:

Nannino: Hive-on-RR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different 1.X releases.

Ouery ID = acadgild_20180215005844_e20e3d6c-aa93-4181-9e3b-4c9099f83d02

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>
set hive.exec.reducers.max=cnumber>

In order to limit the maximum number of reducers:
set hive.exec.reducers.max=cnumber>

In order to set a constant number of reducers:
set napreduce.job.reduces=cnumber>

Starting Job = job_1518445375024_0123, Tracking URL = http://localhost:8088/proxy/application_1518445375024_0123/
KRill Command = /home/cadgild/install/hadcop/hadcop-2.6.5/bin/hadcop job =kill job_1518445375024_0123/
KRill Command = /home/cadgild/install/hadcop/hadcop-2.6.5/bin/hadcop job =kill job_1518445375024_0123/
Hadcop job information for Stage-1: number of mappers: 5; number of reducers: 5

2018-02-15 00:59:33,003 Stage-1 map = 00, reduce = 04, Cumulative CPU 4.79 sec
2018-02-15 00:59:19,653 Stage-1 map = 404, reduce = 04, Cumulative CPU 9.3 sec
2018-02-15 00:59:37,678 Stage-1 map = 804, reduce = 04, Cumulative CPU 21.84 sec
2018-02-15 00:59:35,780 Stage-1 map = 804, reduce = 04, Cumulative CPU 21.84 sec
2018-02-15 00:59:35,780 Stage-1 map = 1004, reduce = 04, Cumulative CPU 21.84 sec
2018-02-15 00:59:47,690 Stage-1 map = 1004, reduce = 03, Cumulative CPU 33.06 sec
2018-02-15 00:59:47,690 Stage-1 map = 1004, reduce = 03, Cumulative CPU 33.06 sec
2018-02-15 00:59:47,690 Stage-1 map = 1004, reduce = 354, Cumulative CPU 33.06 sec
2018-02-15 00:59:47,690 Stage-1 map = 1004, reduce = 354, Cumulative CPU 37.27 sec

Hapkeduce Total cumulative CPU time: 37 seconds 270 msec

Ended Job = Job_1518445375024_0123

Loading data to table default.bank

Hapkeduce Obs Launched:

Stage-Stage-It Map: 5 Reduce: 5 Cumulative CPU: 37.27 sec HD
```

### 🗬 acadgild@localhost:~

```
hive> SELECT * FROM bank;
        nivedita
                        1000
        sumit
               1500
       nivedita
                        1000
       sumit 1500
                        4500
       suchetna
        gatij 2500
       suchetna
                        4500
        gatij 2500
       keshav 3000
keshav 3000
       pravesh 1000
       pravesh 1000
Time taken: 0.187 seconds, Fetched: 12 row(s)
hive>
```