# **Task 2:** Insert data into the table

There are two tables(ie: Mascot, College). The below are the rows that are inserted using HIVE queries.

#### Table 1: Mascot

Step 1: Inserting Values into the Table

```
hive> insert into mascot values (101,
                                       'Pistol Pete');
hive> insert into mascot values (104, 'WuShock');
                                      'Brutus Buckeye');
hive> insert into mascot values (102,
hive> insert into mascot values (103, 'Raider Red');
hive> insert into mascot values (105, 'Beaver');
hive> insert into mascot values (106, 'Sparty');
```

#### Output:

```
Query ID = anagave 20210503225055 7b5ef215-e208-48d5-8671-a3481d24689c
     Total jobs = 3
     Launching Job 1 out of 3
     Number 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 1620056543801 0056, Tracking URL = http://hadoop-nn001.cs.okstate.edu:8088/
proxy/application 1620056543801 0056/
     Kill Command = /usr/local/hadoop-3.3.0/bin/mapred job -kill job 1620056543801 0056
     Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
     2021-05-03 22:51:06,815 Stage-1 map = 0%, reduce = 0%
     2021-05-03 22:51:12,116 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 6.44 sec
     2021-05-03 22:51:19,457 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 10.49 sec
     MapReduce Total cumulative CPU time: 10 seconds 490 msec
     Ended Job = job 1620056543801 0056
     Stage-4 is selected by condition resolver.
     Stage-3 is filtered out by condition resolver.
     Stage-5 is filtered out by condition resolver.
     Moving data to directory hdfs://hadoop-nn001.cs.okstate.edu:9000/user/anagave/achyu/mascot/.hive-
staging hive 2021-05-03 22-50-55 271 6303030171381478245-1/-ext-10000
     Loading data to table achyu.mascot
     MapReduce Jobs Launched:
     Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 10.49 sec HDFS Read: 15626 HDFS Write: 253
SUCCESS
```

Total MapReduce CPU Time Spent: 10 seconds 490 msec

Time taken: 26.068 seconds

## Step 2: Displaying the inserted Values

```
hive> select * from mascot;

OK

101   Pistol Pete

102   Brutus Buckeye

103   Raider Red

104   WuShock

105   Beaver

106   Sparty

Time taken: 0.19 seconds, Fetched: 6 row(s)
```

## Table 2: College

## Step 1: Inserting Values into the Table

```
hive> INSERT INTO TABLE College PARTITION(Country ='US') Select 103, 'Ariana',
ay( 1215678903, 1217504890) , named_struct('city','Lubbock', 'state','Texas' )
('OS' , 2, 'DS' , 2) from mascot limit 1
hive> INSERT INTO TABLE College PARTITION(Country ='US') Select 102, 'Lee', ar
 1215678903, 1217504890) , named_struct('city','Columbus', 'state','Ohio'),MA
S', 2, 'FLT', 2) from mascot limit 1;
hive> INSERT INTO TABLE College PARTITION(Country ='US') Select 106, 'Tina', a
( 1215678903, 1217504890) , named_struct('city','East Lansing', 'state','Michi
 ),MAP('COA' , 2, 'DS' , 2) from mascot limit 1;
hive> INSERT INTO TABLE College PARTITION(Country = 'US') Select 101, 'Kim', a
( 2127893564, 2121123546) , named_struct('city','Stillwater', 'state','Oklahom
,MAP('COA' , 2, 'OS' , 2) from mascot limit 1;
hive> INSERT INTO TABLE College PARTITION(Country = 'US') Select 105, 'Lee', o
( 212128978, 212976542) , named_struct('city','PASADENA', 'state','Calfornia'
P('FLT' , 2, 'DS' , 2) from mascot limit 1
    > :
hive> INSERT INTO TABLE College PARTITION(Country='US') Select 104, 'John', ar
 212120201, 212456392) , named_struct('city','Wichita', 'state','Kansas' ),MAP
 ', 2, 'DS', 2) from mascot limit 1;
```

#### Output:

```
Query ID = anagave_20210503231200_99aad534-2bf0-4f66-9367-0199379765dd
Total jobs = 1
Launching Job 1 out of 1
Number 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 1620056543801 0073, Tracking URL = http://hadoop-
nn001.cs.okstate.edu:8088/proxy/application 1620056543801 0073/
  Kill Command = /usr/local/hadoop-3.3.0/bin/mapred job -kill job 1620056543801 0073
  Hadoop job information for Stage-1: number of mappers: 5; number of reducers: 1
  2021-05-03\ 23:12:06.906\ Stage-1\ map = 0\%, reduce = 0%
  2021-05-03 23:12:12,265 Stage-1 map = 20%, reduce = 0%, Cumulative CPU 5.29 sec
  2021-05-03 23:12:13,314 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 23.96 sec
  2021-05-03 23:12:16,462 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 27.8 sec
  MapReduce Total cumulative CPU time: 27 seconds 800 msec
  Ended Job = job 1620056543801 0073
  Loading data to table achyu.college partition (country=US)
  MapReduce Jobs Launched:
  Stage-Stage-1: Map: 5 Reduce: 1 Cumulative CPU: 27.8 sec HDFS Read: 42629 HDFS
```

Write: 134 SUCCESS

Total MapReduce CPU Time Spent: 27 seconds 800 msec

OK

Time taken: 18.527 seconds

# Step 2: Displaying the inserted values

```
hive> select * from college;
                                        [1215678903,1217504890] {"city":"Lubbock","state":"Texas"} {"OS":2,"DS":2} US [1215678903,1217504890] {"city":"Columbus","state":"Ohio"} {"DS":2,"FLT":2} [1215678903,1217504890] {"city":"East Lansing","state":"Michigan"} {"COA":2,"[CI2127893564,2121123546] {"city":"Stillwater","state":"Oklahoma"} {"COA":2,"[CI2128978,212976542] {"city":"PASADENA","state":"Calfornia"} {"FLT":2,"DS":2} [212120201,212456392] {"city":"Wichita","state":"Kansas"} {"OS":2,"DS":2} US
103
                    Ariana
102
                    Lee
                                                                                                                                                                                                                                     {"COA":2, "DS":2}
106
                    Tina
                                                                                                                                                                                                                                                                                                   US
                                                                                                                                                                                                                                                                                                   US
                                                                                                                                                                                                                                     {"COA":2,"OS":2}
101
                    Kim
105
                    Lee
104
                     John
Time taken: 0.153 seconds, Fetched: 6 row(s)
```