# **Assignment 8.3**

Setting HIVE properties in order 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>
```

2. Created table that supports HIVE transactions

3. Insert data into HIVE table:

```
hive> SELECT * FROM employee;
0K
101
        Amitabh 256
                         Finance 1
102
        Shahrukh
                         78
                                 IT_Dept 2
103
        Akshay 110
                         HR
104
        Anubhav 50
                         Network_Team
105
        Pawan
                 250
                         Admin
106
        Aamir
                 25
                         Finance
107
                175
                         IT_Dept 2
        Salman
108
        Ranbir
                142
109
        Katrina 100
                         Network_Team
110
                                          5
        Priyanka
                         222
                                 Admin
        Tushar 500
111
                         Finance 1
112
                 58
                         IT_Dept 2
        Ajay
113
        Jubeen
                100
                         Finance 1
114
        Madhuri 200
                         IT_Dept 2
Time taken: 0.221 seconds, Fetched: 14 row(s)
hive>
```

4. Updating the values in the table:

```
UPDATE employee set emp_id = 108 where emp_id = 112;
```

The above command is used to update a row in HIVE table.

```
hive> UPDATE employee set emp_id = 108 where emp_id = 112;
FAILED: SemanticException [Error 10302]: Updating values of bucketing columns is not supported. Column emp_id.
```

```
UPDATE college set clg_name = 'IIT' where clg_id = 6;
```

The above command is used to update on NON bucketed column

```
hive>_UPDATE_employee_set_emp name = 'Anushka' where emp id = 105;
WAMNING: 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 live 1.X releases.

Query ID = acadgitd_20171121122113 90f19e37-blef-4f1a-b889-97c30ff4fe07
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=anumber>
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:
Set hive-exec.reducers.max=number:
Starting Job = job | 5101246161557 0002, Tracking URL = http://localhost:8088/proxy/application_1511246161557_0002/
Kill Command = /home/acadgid/hadoop-22,7.2/bin/hadoop job - kill job | 1511246161557_0002/
Kill Command = /home/acadgid/hadoop-22,7.2/bin/hadoop job - kill job | 1511246161557_0002/
Kill Command = /home/acadgid/hadoop-22,7.2/bin/hadoop job - kill job | 1511246161557_0002/
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Kill Command = /home/acadgid/hadoop-22,7.2/bin/hadoop job - kill job | 1511246161557_0002/
Kill Command =
```

Now, if we compare the initial table and the table after updating the row, you will notice that the row 105 has been updated with the name Anushka.

### **INITIAL TABLE**

### TABLE AFTER UPDATING THE ROW

					hive> SELECT * FROM employee; OK					
101	Amitabh 256	Finance 1		105	Anushka	250	Admin	5		
102	Shahrukh	78 IT_Dept	2	110	Priyanka		222	Admin	5	
103	Akshay 110	HR 3		106	Aamir	25	Finance	1		
104	Anubhav 50	Network_Team	4	101	Amitabh	256	Finance	1		
105	Pawan 250	Admin 5		111	Tushar	500	Finance	1		
106	Aamir 25	Finance 1		107	Salman	175	IT Dept	2		
107	Salman 175	IT_Dept 2		112	Ajay	58	IT Dept	2		
108	Ranbir 142	HR 3		102	Shahrukh		78	IT Dept	2	
109	Katrina 100	Network_Team	4	113	Jubeen	100	Finance	1		
110	Priyanka	222 Admin	5	103	Akshay	110	HR	3		
111	Tushar 500	Finance 1		108	Ranbir	142	HR	3		
112	Ajay 58	IT_Dept 2		109	Katrina	100	Network	Team	4	
113	Jubeen 100	Finance 1		104	Anubhay	50	Network	_	4	
114	Madhuri 200	IT_Dept 2		114	Madhuri	200	IT Dept	2		
Time taken: 0.221 seconds, Fetched: 14 row(s)					Time taken: 0.184 seconds, Fetched: 14 row(s)					
hive>				hive>					, ,	

# 5. Deleting a Row from HIVE table:

```
Name of the content of the maximum number of reducers:

Set hive construct, one constant number of reducers:

Set migrator job 1511246161557_8083

Kill Command | home/acadigld/badoops-2.72/bin/hadoop job | kill job 1511246161557_8083

Kill Command | home/acadigld/badoops-2.72/bin/hadoop job | kill job 1511246161557_8083

Kill Command | home/acadigld/badoops-2.72/bin/hadoop job | kill job 1511246161557_8083

Kall Command | home/acadigld/badoops-2.72/bin/hadoop job | kill job 1511246161557_8083

Kill Command | home/acadigld/badoops-2.72/bin/hadoop job | kill job 1511246161557_8083

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Kill Command | home/acadigld/badoops-2.72/bin/hadoop job | kill job 1511246161557_8083

Kill Command | home/acadigld/badoops-2.72/bin/hadoop job | kill job 1511246161557_8083

Kill Command | home/acadigld/badoops-2.72/bin/hadoop job | kill job 1511246161557_8083

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Kill Command | home/acadigld/badoops-2.72/bin/hadoop job | kill job 1511246161557_8083

Kill Command | home/acadigld/badoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin/hadoops-2.72/bin
```

Now, if we compare the initial table and the table after deleting the row, you will notice that the row 107 has been deleted.

## **INITIAL TABLE**

## TABLE AFTER DLEELTING A ROW

```
hive> SELECT * FROM employee;
                                                  hive> SELECT * FROM employee;
0K
                                                  0K
101
        Amitabh 256
                                                  105
                         Finance 1
                                                          Anushka 250
                                                                          Admin
                                                                                 5
102
        Shahrukh
                         78
                                 IT Dept 2
                                                  110
                                                          Priyanka
                                                                          222
                                                                                 Admin
                                                                                         5
103
                         HR
        Akshay 110
                                                  106
                                                          Aamir
                                                                         Finance 1
                                                                  25
104
        Anubhav 50
                         Network_Team
                                          4
                                                          Amitabh 256
                                                  101
                                                                         Finance 1
105
        Pawan
                 250
                         Admin
                                                  111
                                                          Tushar 500
                                                                         Finance 1
106
        Aamir
                 25
                         Finance 1
                                                  112
                                                                  58
                                                                         IT Dept 2
                                                          Ajay
107
        Salman 175
                         IT Dept 2
                                                  102
                                                          Shahrukh
                                                                                 IT Dept 2
                                                                          78
108
        Ranbir 142
                         HR
                                                  113
                                                          Jubeen 100
                                                                         Finance 1
109
        Katrina 100
                         Network_Team
                                          4
                                                  103
                                                          Akshay 110
                                                                         HR
                                                                                 3
110
        Priyanka
                         222
                                 Admin
                                          5
                                                  108
                                                          Ranbir 142
                                                                         HR
111
        Tushar 500
                         Finance 1
                                                  109
                                                          Katrina 100
                                                                         Network Team
                                                                                         4
112
                 58
                         IT Dept 2
        Ajay
                                                  104
                                                          Anubhay 50
                                                                         Network Team
                                                                                         4
113
        Jubeen 100
                         Finance 1
114
                                                  114
                                                          Madhuri 200
        Madhuri 200
                         IT Dept 2
                                                                         IT Dept 2
Time taken: 0.221 seconds, Fetched: 14 row(s)
                                                  Time taken: 0.142 seconds, Fetched: 13 row(s)
hive>
                                                  hive>
```