**Assignment 17 2**

**Problem 1:** Create an HBase table named 'clicks' with a column family 'hits' such that it should be able to store last 5 values of qualifiers inside 'hits' column family.

Creating table:

create 'clicks',NAME=>'hits', VERSIONS=>5

**Output:**

**List:**

hbase(main):009:0> list

TABLE

clicks

1 row(s) in 0.1290 seconds

**Describe:**

hbase(main):024:0> describe 'clicks'

Table clicks is ENABLED

clicks

COLUMN FAMILIES DESCRIPTION

{NAME => 'hits', BLOOMFILTER => 'ROW', VERSIONS => '5', IN\_MEMORY => 'false', KE

EP\_DELETED\_CELLS => 'FALSE', DATA\_BLOCK\_ENCODING => 'NONE', TTL => 'FOREVER', CO

MPRESSION => 'NONE', MIN\_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65

536', REPLICATION\_SCOPE => '0'}

1 row(s) in 0.9670 seconds

**Problem 2:** Add few records in the table and update some of them. Use IP Address as row-key. Scan the table to view if all the previous versions are getting displayed

**Adding records:**

hbase(main):012:0> put 'clicks','192.45.32.56','hits:count','200'

hbase(main):018:0> put 'clicks','192.45.32.56','hits:rate','10'

hbase(main):019:0> put 'clicks','192.45.32.34','hits:count','200'

hbase(main):020:0> put 'clicks','192.45.32.34','hits:rate','20'

**Scan:**

hbase(main):021:0> scan 'clicks'

ROW COLUMN+CELL

192.45.32.34 column=hits:count, timestamp=1490234972012, value=200

192.45.32.34 column=hits:rate, timestamp=1490234983513, value=20

192.45.32.56 column=hits:count, timestamp=1490234631539, value=200

192.45.32.56 column=hits:rate, timestamp=1490234943756, value=10

2 row(s) in 0.0860 seconds

**Updating records:**

hbase(main):012:0> put 'clicks','192.45.32.56','hits:count','400'

hbase(main):012:0> put 'clicks','192.45.32.56','hits:count','600'

hbase(main):012:0> put 'clicks','192.45.32.56','hits:count','700'

hbase(main):012:0> put 'clicks','192.45.32.56','hits:count','100'

**Scanning for previous versions:**

hbase(main):022:0> scan 'clicks',{COLUMN=>'hits:count',VERSIONS=>5}

ROW COLUMN+CELL

192.45.32.34 column=hits:count, timestamp=1490234972012, value=200

192.45.32.56 column=hits:count, timestamp=1490234631539, value=100

192.45.32.56 column=hits:count, timestamp=1490234627231, value=700

192.45.32.56 column=hits:count, timestamp=1490234620925, value=600

192.45.32.56 column=hits:count, timestamp=1490234615267, value=400

192.45.32.56 column=hits:count, timestamp=1490234607153, value=200

2 row(s) in 0.0510 seconds

**Displaying versions using ‘get’:**

hbase(main):023:0> get 'clicks','192.45.32.56',{COLUMN=>'hits:count',VERSIONS=>5}

COLUMN CELL

hits:count timestamp=1490234631539, value=100

hits:count timestamp=1490234627231, value=700

hits:count timestamp=1490234620925, value=600

hits:count timestamp=1490234615267, value=400

hits:count timestamp=1490234607153, value=200

5 row(s) in 0.0400 seconds