

## Assignmnet 9.2

### 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.

### Solution:

//creating table

**create 'clicks','hits'**

//adding records with "ip-address "as the row key

**put 'clicks','192.168.1.1','hits:country','1'**

**put 'clicks','192.168.1.1','hits:state','28'**

**put 'clicks','192.168.1.1','hits:city','300'**

**put 'clicks','192.168.1.1','hits:district','700'**

**put 'clicks','192.168.1.1','hits:people','1000000'**

//displaying the contents of the table clicks

**scan 'clicks'**

```
hbase(main):015:0> scan 'clicks'
ROW                                COLUMN+CELL
192.168.1.1                        column=hits:city, timestamp=1509896722785, value=300
192.168.1.1                        column=hits:country, timestamp=1509896627387, value=1
192.168.1.1                        column=hits:district, timestamp=1509896729879, value=700
192.168.1.1                        column=hits:people, timestamp=1509896738730, value=1000000
192.168.1.1                        column=hits:state, timestamp=1509896714251, value=28
1 row(s) in 0.0300 seconds
```

```
hbase(main):016:0> █
```

## 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.

## Solution:

//Altering the version of the clicks table from 0 to 5 so that it can store the older values

```
alter 'clicks',NAME=>'hits',VERSIONS=>5
```

//updating the values of country using ip-address as rowkey

```
put 'clicks','192.168.1.1','hits:country','2'
```

```
put 'clicks','192.168.1.1','hits:country','3'
```

```
put 'clicks','192.168.1.1','hits:country','4'
```

```
put 'clicks','192.168.1.1','hits:country','5'
```

```
put 'clicks','192.168.1.1','hits:country','6'
```

//displaying the five older versions of country from column hits

```
scan 'clicks',{COLUMN=>'hits:country',VERSIONS=>5}
```

```
hbase(main):024:0> scan 'clicks',{COLUMN=>'hits:country',VERSIONS=>5}
ROW                                COLUMN+CELL
192.168.1.1                        column=hits:country, timestamp=1509897589084, value=6
192.168.1.1                        column=hits:country, timestamp=1509897582337, value=5
192.168.1.1                        column=hits:country, timestamp=1509897575810, value=4
192.168.1.1                        column=hits:country, timestamp=1509897568177, value=3
192.168.1.1                        column=hits:country, timestamp=1509897253947, value=2
1 row(s) in 0.0340 seconds
```

```
hbase(main):025:0> █
```