Assignment 9.2

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:-

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

put 'clicks','10.249.176.78','hits:user1','1st'

put 'clicks','10.249.176.78','hits:user1','2nd'

put 'clicks','10.249.176.78','hits:user1','3rd'

put 'clicks','10.249.176.78','hits:user1','4th'

put 'clicks','10.249.176.78','hits:user1','5th'

```
hbase(main):001:0> create 'clicks', {NAME=>'hits', VERSIONS=>5}
0 row(s) in 1.9660 seconds

=> Hbase::Table - clicks
hbase(main):002:0> list
TABLE
clicks
customer
t1
3 row(s) in 0.2130 seconds

=> ["clicks", "customer", "t1"]
hbase(main):003:0> put 'clicks','10.249.176.78','hits:user1','1st'
0 row(s) in 0.3700 seconds

hbase(main):004:0> put 'clicks','10.249.176.78','hits:user1','2nd'
0 row(s) in 0.0870 seconds

hbase(main):005:0> put 'clicks','10.249.176.78','hits:user1','3rd'
0 row(s) in 0.0740 seconds

hbase(main):006:0> put 'clicks','10.249.176.78','hits:user1','4th'
0 row(s) in 0.0780 seconds

hbase(main):007:0> put 'clicks','10.249.176.78','hits:user1','5th'
0 row(s) in 0.1100 seconds

hbase(main):008:0> █
```

scan 'clicks',{COLUMN=>'hits:user1',VERSIONS=>5}

```
hbase(main):008:0> scan 'clicks',{COLUMN=>'hits:user1',VERSIONS=>5}
ROW                                 COLUMN+CELL
 10.249.176.78                      column=hits:user1, timestamp=1511637426319, value=5th
 10.249.176.78                      column=hits:user1, timestamp=1511637416320, value=4th
 10.249.176.78                      column=hits:user1, timestamp=1511637407587, value=3rd
 10.249.176.78                      column=hits:user1, timestamp=1511637398952, value=2nd
 10.249.176.78                      column=hits:user1, timestamp=1511637389422, value=1st
1 row(s) in 0.2090 seconds

hbase(main):009:0>
```

Problem Statement 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:-

alter 'clicks', {NAME=>'hits', VERSIONS=>10}

put 'clicks','10.249.176.78','hits:user2','1st'

put 'clicks','10.249.176.78','hits:user2','2nd'

put 'clicks','10.249.176.78','hits:user2','3rd'

put 'clicks','10.249.176.78','hits:user3','4th'

put 'clicks','10.249.176.78','hits:user4','5th'

put 'clicks','10.249.176.78','hits:user1','6th'

put 'clicks','10.249.176.78','hits:user1','7th'

put 'clicks','10.249.176.78','hits:user1','8th'

put 'clicks','10.249.176.78','hits:user1','9th'

put 'clicks','10.249.176.78','hits:user1','10th'

```
hbase(main):009:0> alter 'clicks', {NAME=>'hits', VERSIONS=>10}
Updating all regions with the new schema...
0/1 regions updated.
1/1 regions updated.
Done.
0 row(s) in 2.8250 seconds

hbase(main):010:0> put 'clicks','10.249.176.78','hits:user2','1st'
0 row(s) in 0.0930 seconds

hbase(main):011:0> put 'clicks','10.249.176.78','hits:user2','2nd'
0 row(s) in 0.1190 seconds

hbase(main):012:0> put 'clicks','10.249.176.78','hits:user2','3rd'
0 row(s) in 0.1240 seconds

hbase(main):013:0> put 'clicks','10.249.176.78','hits:user3','4th'
0 row(s) in 0.0900 seconds

hbase(main):014:0> put 'clicks','10.249.176.78','hits:user4','5th'
0 row(s) in 0.0790 seconds

hbase(main):015:0> put 'clicks','10.249.176.78','hits:user1','6th'
0 row(s) in 0.0850 seconds

hbase(main):016:0> put 'clicks','10.249.176.78','hits:user1','7th'
0 row(s) in 0.0820 seconds

hbase(main):017:0> put 'clicks','10.249.176.78','hits:user1','8th'
0 row(s) in 0.0900 seconds

hbase(main):018:0> put 'clicks','10.249.176.78','hits:user1','9th'
0 row(s) in 0.2590 seconds

hbase(main):019:0> put 'clicks','10.249.176.78','hits:user1','10th'
0 row(s) in 0.0750 seconds

hbase(main):020:0>
```

scan 'clicks',VERSIONS=>10

```
hbase(main):020:0> scan 'clicks',VERSIONS=>10
ROW                              COLUMN+CELL
 10.249.176.78                   column=hits:user1, timestamp=1511637883262, value=10th
 10.249.176.78                   column=hits:user1, timestamp=1511637875110, value=9th
 10.249.176.78                   column=hits:user1, timestamp=1511637863609, value=8th
 10.249.176.78                   column=hits:user1, timestamp=1511637854502, value=7th
 10.249.176.78                   column=hits:user1, timestamp=1511637842254, value=6th
 10.249.176.78                   column=hits:user1, timestamp=1511637426319, value=5th
 10.249.176.78                   column=hits:user1, timestamp=1511637416320, value=4th
 10.249.176.78                   column=hits:user1, timestamp=1511637407587, value=3rd
 10.249.176.78                   column=hits:user1, timestamp=1511637398952, value=2nd
 10.249.176.78                   column=hits:user1, timestamp=1511637389422, value=1st
 10.249.176.78                   column=hits:user2, timestamp=1511637819685, value=3rd
 10.249.176.78                   column=hits:user2, timestamp=1511637812730, value=2nd
 10.249.176.78                   column=hits:user2, timestamp=1511637803825, value=1st
 10.249.176.78                   column=hits:user3, timestamp=1511637827677, value=4th
 10.249.176.78                   column=hits:user4, timestamp=1511637834676, value=5th
1 row(s) in 0.1910 seconds

hbase(main):021:0>
```

Submitted By:-

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