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 :

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):022:0> create 'clicks', {NAME=>'hits', VERSIONS=>5}
0 row(s) in 0.5370 seconds

=> Hbase::Table - clicks
hbase(main):023:0> list
TABLE
clicks
1 row(s) in 0.0510 seconds

=> ["clicks"]
hbase(main):024:0> put 'clicks','10.249.176.78','hits:user1','1st'
0 row(s) in 0.0390 seconds

hbase(main):025:0> put 'clicks','10.249.176.78','hits:user1','2nd'
0 row(s) in 0.0090 seconds

hbase(main):026:0> put 'clicks','10.249.176.78','hits:user1','3rd'
0 row(s) in 0.0080 seconds

hbase(main):027:0> put 'clicks','10.249.176.78','hits:user1','4th'
0 row(s) in 0.0090 seconds

hbase(main):028:0> put 'clicks','10.249.176.78','hits:user1','5th'
0 row(s) in 0.0120 seconds
```

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

```
hbase(main):031:0> scan 'clicks',{COLUMN=>'hits:user1',VERSIONS=>5}
ROW                          COLUMN+CELL
 10.249.176.78               column=hits:user1, timestamp=1511396233821, value=5th
 10.249.176.78               column=hits:user1, timestamp=1511396232390, value=4th
 10.249.176.78               column=hits:user1, timestamp=1511396232349, value=3rd
 10.249.176.78               column=hits:user1, timestamp=1511396232308, value=2nd
 10.249.176.78               column=hits:user1, timestamp=1511396232268, value=1st
1 row(s) in 0.0540 seconds

hbase(main):032:0>
```

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:

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):033:0> 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 2.3040 seconds

hbase(main):034:0> put 'clicks','10.249.176.78','hits:user1','6th'
0 row(s) in 0.0360 seconds

hbase(main):035:0> put 'clicks','10.249.176.78','hits:user1','7th'
0 row(s) in 0.0170 seconds

hbase(main):036:0> put 'clicks','10.249.176.78','hits:user1','8th'
0 row(s) in 0.0080 seconds

hbase(main):037:0> put 'clicks','10.249.176.78','hits:user1','9th'
0 row(s) in 0.0060 seconds

hbase(main):038:0> put 'clicks','10.249.176.78','hits:user1','10th'
0 row(s) in 0.0160 seconds
```

Acti

scan 'clicks',VERSIONS=>10

```
hbase(main):039:0> put 'clicks','10.249.176.78','hits:user2','1st'
0 row(s) in 0.0360 seconds

hbase(main):040:0> put 'clicks','10.249.176.78','hits:user2','2nd'
0 row(s) in 0.0040 seconds

hbase(main):041:0> put 'clicks','10.249.176.78','hits:user2','3rd'
0 row(s) in 0.0070 seconds

hbase(main):042:0> put 'clicks','10.249.176.78','hits:user3','4th'
0 row(s) in 0.0080 seconds

hbase(main):043:0> put 'clicks','10.249.176.78','hits:user4','5th'
0 row(s) in 0.0110 seconds
```

Submitted By:-

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