

ASSIGNMENT HBASE

SOLUTION:

TASK1:

EXPLANATION: FIRST START HBASE BY "start-hbase.sh" THEN TYPE "jps". Then type "hbase shell", THESE COMMANDS WILL START THE HBASE SERVER. AFTER STARTING HBASE CREATE A TABLE 'clicks' CONTAINING A COLUMN FAMILY 'hits'.

COMMAND : create 'clicks','hits'

SOLUTION:

```
hbase(main):006:0> create 'clicks','hits'
0 row(s) in 2.4050 seconds
```

=> Hbase::Table - clicks

EXPLANATION: BY USING PUT COMMAND WE ARE INSERTING SOME VALUES WITH NAME AS PRIMARY KEY AND CITY, STATE AS COLUMN FAMILY

SOLUTION:

```
hbase(main):007:0> put 'clicks','john','hits:city','Newyork'
0 row(s) in 0.3770 seconds
```

```
hbase(main):008:0> put 'clicks','john','hits:state','Newyork'
0 row(s) in 0.0120 seconds
```

```
hbase(main):009:0> put 'clicks','finch','hits:city','Boston'
0 row(s) in 0.0190 seconds
```

```
hbase(main):010:0> put 'clicks','finch','hits:state','Massachusetts'
0 row(s) in 0.0310 seconds
```

```
hbase(main):011:0> put 'clicks','amit','hits:city','Whitefield'
0 row(s) in 0.0210 seconds
```

```
hbase(main):012:0> put 'clicks','amit','hits:state','Karnataka'
0 row(s) in 0.0170 seconds
```

```
hbase(main):013:0> put 'clicks','rohit','hits:city','raichur'
0 row(s) in 0.0260 seconds
```

```
hbase(main):014:0> put 'clicks','amit','hits:state','Karnataka'
0 row(s) in 0.0340 seconds
```

```
hbase(main):015:0> put 'clicks','yogi','hits:city','thrissur'
0 row(s) in 0.0210 seconds
```

```
hbase(main):016:0> put 'clicks','yogi','hits:state','kerala'
0 row(s) in 0.0110 seconds
```

EXPLANATION: HERE WE ARE GOING TO DISPLAY OUTPUT TO GET ALL THE VALUES. SO BY USING BELOW COMMAND WE GET ALL VALUES

COMMAND: scan 'clicks'

SOLUTION:

hbase(main):017:0> scan 'clicks'

ROW	COLUMN+CELL
amit	column=hits:city, timestamp=1546882227924,
value=Whitefiel	d
amit	column=hits:state, timestamp=1546882306503,
value=Karnatak	a
finch	column=hits:city, timestamp=1546882145947,
value=Boston	column=hits:state, timestamp=1546882180992,
finch	setts
value=Massachu	column=hits:city, timestamp=1546882115706,
john	column=hits:state, timestamp=1546882123502,
value=Newyork	column=hits:city, timestamp=1546882300262,
john	column=hits:city, timestamp=1546882337158,
value=Newyork	column=hits:state, timestamp=1546882351191,
rohit	
value=raichur	
yogi	
value=thrissur	
yogi	
value=kerala	

5 row(s) in 0.2480 seconds

TASK 2:

EXPLANATION: FOR THIS TASK WE NEED TO UPDATE SOME VALUES BY USING IP ADDRESS AS ROW KEY. WE ARE UPDATING VALUES FOR THE NAME FINCH WITH CHANGING THE CITY NAME AND STATE NAME USING "ALTER" COMMAND.

COMMAND: alter 'clicks',NAME=>'ipaddressss',VERSIONS=>5

SOLUTION:

hbase(main):018:0> alter 'clicks',NAME=>'ipaddressss',VERSIONS=>5
Updating all regions with the new schema...
0/1 regions updated.
1/1 regions updated.
Done.
0 row(s) in 3.7400 seconds

EXPLANATION: HERE WE ARE UPDATING THE COLUMN VALUES. THEN BY USING SCAN COMMAND WE GET ALL THE VALUES WITH THE PREVIOUS VALUES.

SOLUTION:

hbase(main):020:0> put 'clicks','Finch','hits:city','Newyork'
0 row(s) in 0.0190 seconds

hbase(main):021:0> put 'clicks','Finch','hits:city','Detroit'
0 row(s) in 0.0180 seconds

```
hbase(main):022:0> scan 'clicks',{COLUMN=>'hits:city',VERSIONS=>2}
ROW                                COLUMN+CELL
  Finch                            column=hits:city, timestamp=1546883146739,
value=Detroit
  amit                             column=hits:city, timestamp=1546882227924,
value=Whitefiel
d
  finch                            column=hits:city, timestamp=1546882145947,
value=Boston
  john                             column=hits:city, timestamp=1546882115706,
value=Newyork
  rohit                            column=hits:city, timestamp=1546882300262,
value=raichur
  yogi                             column=hits:city, timestamp=1546882337158,
value=thrissur
6 row(s) in 0.0970 seconds
```