



Session 9: HBASE

Assignment 9.2

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Course: Big Data Hadoop & Spark Training

Assignment 9.2–

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.
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.

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Introduction

In this assignment we are going to create a table and a column family in HBASE and also update the table by adding some records.

Problem Statement

Task1

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.

Task2

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.

Task1

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.

Table name: **clicks**

Column Family: **hits**

Versions: 5

Command format:

Create <'table name'>,<'column family=>value'>,VERSIONS=>5

HBASE Shell command

hbase(main):007:0* create 'clicks',NAME=>'hits',VERSIONS=>5

```
hbase(main):006:0>
hbase(main):007:0* create 'clicks',NAME=>'hits',VERSIONS=>5
0 row(s) in 1.0230 seconds
```

```
hbase(main):010:0* list
TABLE
clicks
customer
studentAcad
3 row(s) in 0.0860 seconds
```



Task2

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.

Here we are using ip address '27.59.2.31' as a row key,

HBASE shell command

```
put 'clicks','27.59.2.31','hits:No_Of_Times','12'
```

```
scan 'clicks'
```

```
hbase(main):014:0> put 'clicks','27.59.2.31','hits:No_Of_Times','12'
0 row(s) in 0.2190 seconds

hbase(main):015:0> scan 'clicks'
ROW                                COLUMN+CELL
27.59.2.31                         column=hits:No_Of_Times, timestamp=1511876988874, value=12
1 row(s) in 0.1310 seconds
```

Update the row by adding some values,

```
put 'clicks','27.59.2.31','hits:No_Of_Times','32'
```

```
put 'clicks','27.59.2.31','hits:No_Of_Times','8'
```

```
put 'clicks','27.59.2.31','hits:No_Of_Times','44'
```

```
put 'clicks','27.59.2.31','hits:No_Of_Times','99'
```

We are going to see the last 5 qualifiers inside hits column family,

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

```
hbase(main):023:0> scan 'clicks',{COLUMN=>'hits:No_Of_Times',VERSIONS=>5}
ROW                                COLUMN+CELL
27.59.2.31                         column=hits:No_Of_Times, timestamp=1511877052223, value=99
27.59.2.31                         column=hits:No_Of_Times, timestamp=1511877050801, value=44
27.59.2.31                         column=hits:No_Of_Times, timestamp=1511877050655, value=8
27.59.2.31                         column=hits:No_Of_Times, timestamp=1511877050455, value=32
27.59.2.31                         column=hits:No_Of_Times, timestamp=1511876988874, value=12
1 row(s) in 0.1910 seconds
```

We can see the Ip address that how many number of times it was hits in a regular interval manner.