Assignment 9:

Created table employee and changed the versions to 3:

Output 1:

hbase(main):004:0> describe 'employee'

Table employee is ENABLED

COLUMN FAMILIES DESCRIPTION

{NAME => 'official', BLOOMFILTER => 'ROW', VERSIONS => '3', IN\_MEMORY => 'false', KEEP\_DELETED\_CELLS => 'FALSE', DATA\_BLOCK\_ENCODING => 'NONE', TTL => 'FOREVER', COMPRES

SION => 'NONE', MIN\_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION\_SCOPE => '0'}

{NAME => 'personal', BLOOMFILTER => 'ROW', VERSIONS => '3', IN\_MEMORY => 'false', KEEP\_DELETED\_CELLS => 'FALSE', DATA\_BLOCK\_ENCODING => 'NONE', TTL => 'FOREVER', COMPRES

SION => 'NONE', MIN\_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION\_SCOPE => '0'}

2 row(s) in 0.0720 seconds

hbase(main):005:0>

Output 2:

hbase(main):005:0> scan 'employee'

ROW COLUMN+CELL

1 column=personal:name, timestamp=1494697284805, value=raju

1 row(s) in 0.1350 seconds

hbase(main):019:0> scan 'employee'

ROW COLUMN+CELL

1 column=personal:name, timestamp=1494697284805, value=raju

2 column=official:add, timestamp=1494745509307, value=dubai

2 column=personal:add, timestamp=1494745495602, value=chennai

2 column=personal:name, timestamp=1494745455298, value=shyam

2 row(s) in 0.0840 seconds

Delete:

hbase(main):022:0> delete 'employee','2','personal:add',1494745495602

0 row(s) in 0.0320 seconds

hbase(main):023:0> scan 'employee'

ROW COLUMN+CELL

1 column=personal:name, timestamp=1494697284805, value=raju

2 column=official:add, timestamp=1494745509307, value=dubai

2 column=personal:name, timestamp=1494745455298, value=shyam

2 row(s) in 0.0490 seconds

Using Pig:

hadoop fs -copyFromLocal /home/hduser/Employee /inputs/pig\_inputs

REGISTER /home/hduser/hbase/hbase-0.98.9-hadoop2/lib/hbase-common-0.98.9-hadoop2.jar;

REGISTER /home/hduser/hbase/hbase-0.98.9-hadoop2/lib/hbase-client-0.98.9-hadoop2.jar;

REGISTER /home/hduser/hbase/hbase-0.98.9-hadoop2/lib/hbase-server-0.98.9-hadoop2.jar;

REGISTER /home/hduser/hbase/hbase-0.98.9-hadoop2/lib/hbase-protocol-0.98.9-hadoop2.jar;

REGISTER /home/hduser/hbase/hbase-0.98.9-hadoop2/lib/htrace-core-2.04.jar;

REGISTER /home/hduser/hbase/hbase-0.98.9-hadoop2/lib/zookeeper-3.4.6.jar;

REGISTER /home/hduser/hbase/hbase-0.98.9-hadoop2/lib/guava-12.0.1.jar;

employee = LOAD '/inputs/pig\_inputs/Employee' using PigStorage(',') AS (employee\_id:int, name:chararray,phone\_no:chararray);

STORE employee INTO 'hbase://employee' USING org.apache.pig.backend.hadoop.hbase.HBaseStorage('personal:name,official:phone\_no');

hbase(main):003:0> scan 'employee'

ROW COLUMN+CELL

1 column=personal:name, timestamp=1494697284805, value=raju

101 column=official:phone\_no, timestamp=1495347779683, value=98342

101 column=personal:name, timestamp=1495347779683, value=maha

102 column=official:phone\_no, timestamp=1495347779713, value=98222

102 column=personal:name, timestamp=1495347779713, value=azeem

2 column=official:add, timestamp=1494745509307, value=dubai

2 column=personal:name, timestamp=1494745455298, value=shyam

101 and 102 are from the employee file

Using Java API:

Attached code HBaseJava for insert and delete

Load data using pig: