

hbase/hbase-1.2.6

conf/hbase-site.xml

export HBASE\_HOME=/home/keerthan/hbase/hbase-1.2.6

export PATH="\$HBASE\_HOME/bin:\$PATH"

[root@localhost hbase-1.2.6]# bin/start-hbase.sh

[root@localhost hbase-1.2.6]# jps

10226 NodeManager

9397 DataNode

9573 SecondaryNameNode

13430 Jps

9255 NameNode

13319 HRegionServer

12458 HQuorumPeer

10111 ResourceManager

localhost:16010

[root@localhost bin]# ./hbase shell

hbase(main):001:0> status

1 active master, 0 backup masters, 1 servers, 0 dead, 2.0000 average load

hbase(main):002:0> whoami

root (auth:SIMPLE)

groups: root

hbase(main):003:0> list

TABLE

0 row(s) in 0.0680 seconds

=> []

hbase(main):004:0> create 'census','personal' 'professional'

0 row(s) in 1.4910 seconds

=> Hbase::Table - census

```
hbase(main):007:0> describe 'census'
Table census is ENABLED
census
COLUMN FAMILIES DESCRIPTION
{NAME => 'personalprofessional', BLOOMFILTER => 'ROW', VERSIONS => '1',
IN_MEMOR
Y => 'false', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING =>
'NONE', TTL
=> 'FOREVER', COMPRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE
=> 'true',
BLOCKSIZE => '65536', REPLICATION_SCOPE => '0'}
1 row(s) in 0.2470 seconds
```

census2

```
hbase(main):011:0> count 'census2'
0 row(s) in 0.1730 seconds
```

```
hbase(main):013:0> put 'census2', 1, 'personla:name', 'Mike Jones'
0 row(s) in 0.0440 seconds
```

```
hbase(main):015:0> put 'census2', 1, 'personla:marital_status', 'unmarried'
0 row(s) in 0.0470 seconds
```

```
hbase(main):016:0> scan 'census2'
ROW COLUMN+CELL
1 column=personla:marital_status, timestamp=1520329590307, v
alue=unmarried
1 column=personla:name, timestamp=1520329537014, value=Mike
Jones
1 row(s) in 0.0550 seconds
```

```
hbase(main):018:0> put 'census2', 1, 'personla:gender', 'male'
0 row(s) in 0.0450 seconds
```

```
hbase(main):019:0> scan 'census2'
ROW COLUMN+CELL
1 column=personla:gender, timestamp=1520330470397, value=mal
e
1 column=personla:marital_status, timestamp=1520329590307, v
alue=unmarried
1 column=personla:name, timestamp=1520329537014, value=Mike
Jones
1 row(s) in 0.0740 seconds
```

```
hbase(main):020:0> put 'census2',1,'professional:employees','yes'  
0 row(s) in 0.0200 seconds
```

```
hbase(main):021:0> scan 'census2'  
ROW COLUMN+CELL  
1 column=personla:gender, timestamp=1520330470397, value=male  
1 column=personla:marital_status, timestamp=1520329590307, value=unmarried  
1 column=personla:name, timestamp=1520329537014, value=Mike Jones  
1 column=professional:employees, timestamp=1520330521837, value=yes  
1 row(s) in 0.0590 seconds  
hbase(main):027:0> put 'census2', 3, 'personla:marital_statuse', 'married'  
0 row(s) in 0.0200 seconds
```

```
hbase(main):028:0> put 'census2',3,'professional:education_level','under-grad'  
0 row(s) in 0.0180 seconds
```

```
hbase(main):030:0> put 'census2', 3, 'professional:education_level', 'post-grad'  
0 row(s) in 0.0390 seconds
```

```
hbase(main):033:0> count 'census2'  
2 row(s) in 0.0520 seconds
```

Read operation

```
hbase(main):034:0> get 'census2', 1  
COLUMN CELL  
personla:gender timestamp=1520330470397, value=male  
personla:marital_status timestamp=1520329590307, value=unmarried  
personla:name timestamp=1520329537014, value=Mike Jones  
professional:education_level timestamp=1520330585801, value=high school  
professional:employees timestamp=1520330521837, value=yes  
professional:field timestamp=1520330615696, value=construction  
6 row(s) in 0.1050 seconds
```

```
hbase(main):035:0> get 'census2', 1, 'personla:name'
COLUMN CELL
personla:name timestamp=1520329537014, value=Mike Jones
1 row(s) in 0.0350 seconds
```

```
hbase(main):036:0> get 'census2', 1, 'personla:name','professional:education_level'
COLUMN CELL
personla:name timestamp=1520329537014, value=Mike Jones
professional:educati timestamp=1520330585801, value=high school
on_level
2 row(s) in 0.0360 seconds
```

```
hbase(main):004:0> scan 'census2', {COLUMNS => ['personla:name']}
ROW COLUMN+CELL
1 column=personla:name, timestamp=1520329537014, value=Mike Jones
3 column=personla:name, timestamp=1520330694395, value=Jill Tonpa
2 row(s) in 0.0750 seconds
```

```
hbase(main):005:0> scan 'census2', {COLUMNS => ['personla:name'],LIMIT =>1}
ROW COLUMN+CELL
1 column=personla:name, timestamp=1520329537014, value=Mike Jones
1 row(s) in 0.0500 seconds
```

```
row(s) in 0.0500 seconds TROW => "2"} scan 'census2', {COLUMNS =>
['personla:name'],LIMIT =>1,STAR}
ROW COLUMN+CELL
3 column=personla:name, timestamp=1520330694395, value=Jill Tonpa
1 row(s) in 0.0260 seconds
```

```
hbase(main):007:0> scan 'census2', {COLUMNS => ['personla:name'],LIMIT
=>2,STARTROW => "2"}
ROW COLUMN+CELL
3 column=personla:name, timestamp=1520330694395, value=Jill Tonpa
1 row(s) in 0.0540 seconds
```

```
hbase(main):010:0> scan 'census2', {COLUMNS => ['personla:name'],STARTROW =>
"1", STOPROW => "3"}
ROW COLUMN+CELL
```

1 column=persona:name, timestamp=1520329537014, value=Mike Jones  
1 row(s) in 0.0940 seconds

#### DELETE COMMAND

hbase(main):013:0> get 'census2',1  
COLUMN CELL  
persona:gender timestamp=1520330470397, value=male  
persona:marital\_sta timestamp=1520329590307, value=unmarried  
tus  
persona:name timestamp=1520329537014, value=Mike Jones  
professional:educati timestamp=1520330585801, value=high school  
on\_level  
professional:employe timestamp=1520330521837, value=yes  
s  
professional:field timestamp=1520330615696, value=construction  
6 row(s) in 0.0910 seconds

hbase(main):014:0> delete 'census2', 1, 'persona:marital\_status'  
0 row(s) in 0.1330 seconds

hbase(main):015:0> get 'census2',1  
COLUMN CELL  
persona:gender timestamp=1520330470397, value=male  
persona:name timestamp=1520329537014, value=Mike Jones  
professional:educati timestamp=1520330585801, value=high school  
on\_level  
professional:employe timestamp=1520330521837, value=yes  
s  
professional:field timestamp=1520330615696, value=construction  
5 row(s) in 0.0240 seconds

#### DROP TABLE

hbase(main):016:0> disable 'census2'  
0 row(s) in 2.4560 seconds

hbase(main):017:0> enable 'census2'  
0 row(s) in 2.4020 seconds

hbase(main):018:0> exists 'census2'  
Table census2 does exist  
0 row(s) in 0.0460 seconds

```
hbase(main):019:0> drop 'census2'
```

ERROR: Table census2 is enabled. Disable it first.

Here is some help for this command:

Drop the named table. Table must first be disabled:

```
hbase> drop 't1'
```

```
hbase> drop 'ns1:t1'
```

```
hbase(main):021:0> disable 'census2'
```

0 row(s) in 2.4190 seconds

```
hbase(main):022:0> drop 'census2'
```

0 row(s) in 1.3940 seconds

MapReduce Logic

```
hbase(main):021:0> create 'summary' , 'marital_status'
```

0 row(s) in 1.3530 seconds