

Execute 2 HBase commands from each of the 6 groups** (Total 12 commands), and place the screenshots into a word file, and upload to BlackBoard.

<https://learnhbase.wordpress.com/2013/03/02/hbase-shell-commands/>

HBase shell commands are mainly categorized into 6 part.

1. General HBase shell commands

```
hbase(main):007:0> status
1 active master, 0 backup masters, 1 servers, 0 dead, 2.0000 average load

hbase(main):008:0> version
1.2.6, rUnknown, Mon May 29 02:25:32 CDT 2017
```

2) Tables Management commands

```
hbase(main):001:0> create 't1', {NAME => 'f1', VERSIONS => 5}
0 row(s) in 1.4340 seconds
```

```
hbase(main):004:0> describe 't1'
Table t1 is ENABLED
t1
COLUMN FAMILIES DESCRIPTION
{NAME => 'f1', BLOOMFILTER => 'ROW', VERSIONS => '5', IN_MEMORY => '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 0.0240 seconds
```

3) Data Manipulation commands

```
hbase(main):014:0> scan 'hbase:meta'
ROW COLUMN+CELL
hbase:namespace,,152323329 column-info:regionInfo, timestamp=1523233290805, value={ENCODED => b66d39214088
0232.b66d3921408883b8e8da2 83b8e8da2a82f48af754, NAME => 'hbase:namespace,,1523233290232.b66d3921408883b8e
a82f48af754.', STARTKEY => '', ENDKEY => ''}
hbase:namespace,,152323329 column-info:sequenceNumber, timestamp=1523233290805, value=\x00\x00\x00\x00\x
0232.b66d3921408883b8e8da2 00\x00\x00\x02
a82f48af754.
hbase:namespace,,152323329 column-info:server, timestamp=1523233290805, value=ip-172-31-25-109.us-west-2.c
0232.b66d3921408883b8e8da2 ompute.internal:38653
a82f48af754.
hbase:namespace,,152323329 column-info:serverstartcode, timestamp=1523233290805, value=1523233283924
0232.b66d3921408883b8e8da2
a82f48af754.
t1,,1523234021442.5fe36fd1 column-info:regionInfo, timestamp=1523234021917, value={ENCODED => 5fe36fd1565c
565c9a2076c9c2d7ef3953ef, 9a2076c9c2d7ef3953ef, NAME => 't1,,1523234021442.5fe36fd1565c9a2076c9c2d7ef3953
ef.', STARTKEY => '', ENDKEY => ''}
t1,,1523234021442.5fe36fd1 column-info:sequenceNumber, timestamp=1523234021917, value=\x00\x00\x00\x00\x
565c9a2076c9c2d7ef3953ef, 00\x00\x00\x02
t1,,1523234021442.5fe36fd1 column-info:server, timestamp=1523234021917, value=ip-172-31-25-109.us-west-2.c
565c9a2076c9c2d7ef3953ef, ompute.internal:38653
t1,,1523234021442.5fe36fd1 column-info:serverstartcode, timestamp=1523234021917, value=1523233283924
565c9a2076c9c2d7ef3953ef.
2 row(s) in 0.0330 seconds
```

4) HBase surgery tools

```
[hbase(main):015:0> balancer
true
0 row(s) in 0.0160 seconds

[hbase(main):016:0> compact 't1'
0 row(s) in 0.0500 seconds
```

5) Cluster replication tools

```
[hbase(main):021:0> add_peer 'Z', "zk1,zk2,zk3:2182:/hbase-prod"
0 row(s) in 0.0260 seconds

[hbase(main):022:0> list_peers
PEER_ID CLUSTER_KEY STATE TABLE_CFS
2 zk1,zk2,zk3:2182:/hbase-prod ENABLED
1 row(s) in 0.0140 seconds
```

6) Security tools

```
[hbase(main):008:0> grant 'binshi','RW','t1','f1','col1'
0 row(s) in 0.2880 seconds

[hbase(main):009:0> user_permission 't1'
User                                Namespace,Table,Family,Qualifier:Permission
binshi                             default,t1,f1,col1: [Permission: actions=READ,WRITE]
1 row(s) in 0.0580 seconds
```