DADS 6002 / CI 7301 Big Data Analytics HBASE Lab

- To start Hbase CLI
 # hbase shell
 hbase>
- To exit Hbase CLI hbase> quit

- Create a namespace hbase> create_namespace 'ns_test' hbase> list_namespace
- Create a table under a namespace hbase> create 'ns_test:t1', 'cf1' hbase> list
- Remove the created table hbase> disable 'ns_test:t1' hbase> drop 'ns_test:t1'
- Remove a namespace (the namespace must be empty)
 hbase> drop_namespace 'ns_test'
 hbase> list_namespace

 Create a new table 'linkshare' with a column family 'link'

hbase> create 'linkshare', 'link'

hbase> list

 Alter the table structure after creation e.g. adding a column family

Hbase> disable 'linkshare'

Hbase> alter 'linkshare', 'statistics'

Hbase> enable 'linkshare'

Hbase> describe 'linkshare'

Insert data with put
 hbase > put 'linkshare', 'org.hbase.www', 'link:title', 'Apache Hbase'
 hbase > put 'linkshare', 'org.hadoop.www', 'link:title', 'Apache Hadoop'
 hbase > put 'linkshare', 'org.hive.www', 'link:title',

'Apache Hive'

Increment a counter associated with a column of a row

```
hbase > incr 'linkshare', 'org.hbase.www', 
'statistics:share', 1
hbase > incr 'linkshare', 'org.hbase.www', 
'statistics:share', 2
```

 Get the value in the counter hbase > get_counter 'linkshare', 'org.hbase.www', 'statistics: share'

Get row or cell values

```
hbase > get 'linkshare','org.hbase.www', 'link:title'
```

hbase > get 'linkshare','org.hbase.www', 'link:title', 'statistics:share'

```
To change the max number of versions of a column family
hbase > alter 'linkshare', { NAME => 'link', VERSIONS => 4
hbase > put 'linkshare', 'org.test.www', 'link:title', 'Apache
  Test 1
hbase > put 'linkshare', 'org.test.www', 'link:title', 'Apache
  Test 2'
hbase > get 'linkshare', 'org.test.www', { COLUMN =>
  'link:title', VERSIONS => 2 }
```

 Scan a table hbase> scan 'linkshare'

```
hbase> scan 'linkshare', { COLUMN => 'link:title', STARTROW => 'org.hbase.www' }
```

```
hbase> scan 'linkshare', { COLUMN => 'link:title', STARTROW => 'org.hadoop.www', ENDROW => 'org.hive.www' }
```

Scan with Filter

```
hbase> scan 'linkshare', { COLUMN => 'link:title', FILTER => "ValueFilter ( <=, 'binary:Apache Hbase')" }
```

```
hbase> scan 'linkshare', { COLUMN => 'link:title', FILTER => "ValueFilter ( >, 'binary:Apache Hbase')" }
```

- Delete a cell in a row hbase > delete 'linkshare', 'org.hbase.www', 'link:title'
- Update a cell in a row with a new value (use put)
 hbase > put 'linkshare', 'org.hbase.www',
 'link:title', 'new value'
 hbase > scan 'linkshare'

Delete a table

First disable the table then delete it using drop command

hbase> create 'test', 'cf'

hbase> list

hbase> disable 'test'

hbase> drop 'test'

hbase> list