



Vivekanand Education Society's Institute of Technology

Approved by AICTE & Affiliated to University of Mumbai

Artificial Intelligence and Data Science Department

BDA / Odd Sem 2023-23 / Experiment 4

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Program:

1. General Commands:

```
hbase(main):001:0> version
1.2.0-cdh5.12.0, rUnknown, Thu Jun 29 04:42:07 PDT 2017

hbase(main):002:0> status
1 active master, 0 backup masters, 1 servers, 0 dead, 2.0000 average load

hbase(main):003:0> whoami
cloudera (auth:SIMPLE)
groups: cloudera, default
```

2. Create Table:

```
hbase(main):004:0> create 'customer', 'info', 'orders'
0 row(s) in 2.5610 seconds

=> Hbase::Table - customer
hbase(main):005:0> list
TABLE
customer
1 row(s) in 0.0320 seconds

=> ["customer"]
```



3. Disable and Enable Table:

```
hbase(main):006:0> disable 'customer'
0 row(s) in 2.4500 seconds

hbase(main):007:0> is_disabled 'customer'
true
0 row(s) in 0.0330 seconds

hbase(main):008:0> enable 'customer'
0 row(s) in 1.2910 seconds

hbase(main):009:0> is_enabled 'customer'
true
0 row(s) in 0.0390 seconds
```

4. Describe Table:

```
hbase(main):010:0> describe 'customer'
Table customer is ENABLED
customer
COLUMN FAMILIES DESCRIPTION
{NAME => 'info', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATIO
N_SCOPE => '0', VERSIONS => '1', COMPRESSION => 'NONE', MIN_VERSIONS => '0', TTL
=> 'FOREVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY =>
'false', BLOCKCACHE => 'true'}
{NAME => 'orders', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICAT
ION_SCOPE => '0', VERSIONS => '1', COMPRESSION => 'NONE', MIN_VERSIONS => '0', T
TL => 'FOREVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY
=> 'false', BLOCKCACHE => 'true'}
2 row(s) in 0.0620 seconds
```

5. Alter Table (Add a new column family 'feedback'):

```
hbase(main):011:0> alter 'customer', {NAME => 'feedback'}
Updating all regions with the new schema...
1/1 regions updated.
Done.
0 row(s) in 2.0590 seconds
```



6. Insert Values in Table:

```
hbase(main):003:0> put 'customer', '1001', 'info:name', 'Shreyas Satre'
0 row(s) in 0.3860 seconds

hbase(main):004:0> put 'customer', '1001', 'info:email', 'shreyas.satre@example.com'
0 row(s) in 0.0070 seconds

hbase(main):005:0> put 'customer', '1001', 'orders:order1', '2023-09-01'
0 row(s) in 0.0180 seconds
```

7. Retrieve table data:

```
hbase(main):006:0> get 'customer', '1001'
COLUMN                                CELL
info:email                            timestamp=1695028938326, value=shreyas.satre@example.com
info:name                             timestamp=1695028904288, value=Shreyas Satre
orders:order1                         timestamp=1695028949323, value=2023-09-01
3 row(s) in 0.0440 seconds
```

8. Scan table (List all customers / records):

```
hbase(main):027:0> scan 'customer'
ROW                                  COLUMN+CELL
1001                                column=info:name, timestamp=1695028904288, value=Shreyas Satre
1001                                column=orders:order1, timestamp=1695028949323, value=2023-09-01
69                                  column=info:email, timestamp=1695029113986, value=shreyas.satre@example.com
69                                  column=info:name, timestamp=1695029132268, value=Shreyas Satre
2 row(s) in 0.1440 seconds
```

9. Aggregate Functions (Count Records):

```
hbase(main):028:0> count 'customer'
2 row(s) in 0.0370 seconds

=> 2
```



10.Delete Cell (Remove email for a customer):

```
hbase(main):026:0> delete 'customer', '1001', 'info:email'  
0 row(s) in 0.0380 seconds
```

11.Truncate Table:

```
hbase(main):029:0> truncate 'customer'  
Truncating 'customer' table (it may take a while):  
- Disabling table...  
- Truncating table...  
0 row(s) in 3.7880 seconds
```

12.Drop Table:

```
hbase(main):031:0> disable 'customer'  
0 row(s) in 2.2900 seconds  
  
hbase(main):032:0> drop 'customer'  
0 row(s) in 1.3040 seconds
```