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```
[root@quickstart cloudera]# hbase shell
2022-03-24 19:57:44,498 INFO [main] Configuration.deprecation: hadoop.native.li
b is deprecated. Instead, use io.native.lib.available
HBase Shell; enter 'help<RETURN>' for list of supported commands.
Type "exit<RETURN>" to leave the HBase Shell
Version 1.0.0-cdh5.4.2, rUnknown, Tue May 19 17:07:29 PDT 2015
hbase(main):001:0> list
TABLE
0 row(s) in 0.2610 seconds
```

```
hbase(main):002:0> create 'customer', 'address','order'
0 row(s) in 1.4300 seconds

=> Hbase::Table - customer
hbase(main):003:0> list
TABLE
customer
1 row(s) in 0.0030 seconds

=> ["customer"]
```

```
hbase(main):004:0> put 'customer','Nick','address:city','Mumbai'
0 row(s) in 0.4340 seconds

hbase(main):005:0> put 'customer','Nick','address:state','Maharashtra'
0 row(s) in 0.0090 seconds

hbase(main):006:0> put 'customer','Nick','address:street','Steet1'
0 row(s) in 0.0110 seconds

hbase(main):007:0> put 'customer','Nick','order:number','ORD-15'
0 row(s) in 0.0080 seconds

hbase(main):008:0> put 'customer','Nick','order:amount','50'
0 row(s) in 0.0090 seconds
```

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```
hbase(main):009:0> get 'customer', 'Nick'

COLUMN CELL
address:city timestamp=1648177267650, value=Mumbai
address:state timestamp=1648177277732, value=Maharashtra
address:street timestamp=1648177333270, value=Steet1
order:amount timestamp=1648177361907, value=50
order:number timestamp=1648177349416, value=ORD-15
5 row(s) in 0.0340 seconds
```

```
hbase(main):013:0> get 'customer', 'justin'
COLUMN CELL
address:address timestamp=1648178620085, value=Maharashtra
address:city timestamp=1648178574161, value=Pune
order:amount timestamp=1648178236590, value=60
order:number timestamp=1648178207179, value=ORD-16
4 row(s) in 0.0100 seconds

hbase(main):014:0>
```

```
hbase(main):015:0> get 'customer', 'Nick' , 'address:city'
COLUMN CELL
address:city timestamp=1648177267650, value=Mumbai
1 row(s) in 0.0350 seconds
hbase(main):016:0>
```

```
hbase(main):015:0> get 'customer', 'Nick' , 'address:city'
COLUMN
address:city
                                           timestamp=1648177267650, value=Mumbai
1 row(s) in 0.0350 seconds
hbase(main):016:0> scan 'customer'
ROW
                                           COLUMN+CELL
 Justin
                                           column=address:city, timestamp=1648177690285, value=Pune
                                          column=address:city, timestamp=1648177267650, value=Mumbai
column=address:state, timestamp=1648177277732, value=Maharashtra
column=address:street, timestamp=1648177333270, value=Steet1
 Nick
 Nick
 Nick
                                          column=order:amount, timestamp=1648177361907, value=50 column=order:number, timestamp=1648177349416, value=0RD-15
 Nick
 Nick
                                           column=address:address, timestamp=1648178620085, value=Maharashtra
 justin
                                          column=address:city, timestamp=1648178574161, value=Pune
column=order:amount, timestamp=1648178236590, value=60
column=order:number, timestamp=1648178207179, value=ORD-16
 justin
 justin
 justin
3 row(s) in 0.1220 seconds
hbase(main):017:0>
hbase(main):017:0> delete 'customer', 'Nick' ,'address:street'
0 row(s) in 0.0290 seconds
hbase(main):018:0>
```

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```
hbase(main):020:0> alter 'customer', 'delete' => 'address'
Updating all regions with the new schema...
0/1 regions updated.
1/1 regions updated.
Done.
0 row(s) in 2.2480 seconds
hbase(main):021:0> scan 'customer'
                                 COLUMN+CELL
Nick
                                column=order:amount, timestamp=1648177361907, value=50
                                column=order:number, timestamp=1648177349416, value=ORD-15
Nick
 justin
                                column=order:amount, timestamp=1648178236590, value=60
                                column=order:number, timestamp=1648178207179, value=ORD-16
justin
2 row(s) in 0.0130 seconds
hbase(main):022:0>
```

```
hbase(main):022:0> desc 'customer'
Table customer is ENABLED
customer
COLUMN FAMILIES DESCRIPTION
{NAME => 'order', DATA BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', VERSIONS => '1', COMPRESSI
ON => 'NONE', MIN_VERSIONS => '0', TTL => 'FOREVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'fal
se', BLOCKCACHE => 'true'}
1 row(s) in 0.0510 seconds
hbase(main):023:0>
```

```
hbase(main):023:0> create 'customerl', {NAME => 'address', VERSIONS => 3}
0 row(s) in 1.4380 seconds
=> Hbase::Table - customerl
hbase(main):024:0>
```

```
=> Hbase::Table - customer1
hbase(main):024:0> count 'customer'
2 row(s) in 0.0270 seconds

=> 2
hbase(main):025:0>  

hbase(main):025:0> alter 'customer' , NAME => 'address', VERSIONS =>5
Updating all regions with the new schema...
0/1 regions updated.
1/1 regions updated.
Done.
0 row(s) in 2.1780 seconds

hbase(main):026:0>
```

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```
hbase(main):001:0> desc 'customer'
Table customer is ENABLED
customer
COLUMN FAMILIES DESCRIPTION
{NAME => 'address', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', COMPRESSION => 'NONE', VERSI
ONS => '5', TTL => 'FOREVER', MIN_VERSIONS => '0', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', B
LOCKCACHE => 'true'}
{NAME => 'order', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', VERSIONS => '1', COMPRESSION =
> 'NONE', MIN_VERSIONS => '0', TTL => 'FOREVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', BLO
CKCACHE => 'true'}
2 row(s) in 0.3120 seconds
hbase(main):002:0>
```

```
hbase(main):002:0> scan 'customer'
ROW
                                                                 COLUMN+CELL
Justin
                                                                 column=address:city, timestamp=1648177690285, value=Pune
                                                                 column=address:city, timestamp=1648177267650, value=Mumbai
column=address:state, timestamp=1648177277732, value=Maharashtra
column=order:amount, timestamp=1648177361907, value=50
Nick
Nick
Nick
                                                                 column=order:number, timestamp=1648177349416, value=ORD-15
Nick
                                                                 column=address:address, timestamp=1648178620085, value=Maharashtra column=address:city, timestamp=1648178574161, value=Pune column=order:amount, timestamp=1648178236590, value=60 column=order:number, timestamp=1648178207179, value=0RD-16
 justin
 justin
 justin
 justin
 row(s) in 0.1670 seconds
hbase(main):003:0>
```

```
hbase(main):003:0> put 'customer', 'Nick' , 'address:city', 'Pune'
0 row(s) in 0.0690 seconds
hbase(main):004:0> put 'customer', 'Nick' , 'address:city', 'Bangalore'
0 row(s) in 0.0110 seconds
hbase(main):005:0> put 'customer', 'Nick' , 'address:city', 'Delhi'
0 row(s) in 0.0030 seconds
hbase(main):006:0> scan 'customer', {COLUMN=> 'address:city', VERSIONS => 2 }
ROW
                                       COLUMN+CELL
                                       column=address:city, timestamp=1648177690285, value=Pune column=address:city, timestamp=1648179750220, value=Delhi column=address:city, timestamp=1648179722103, value=Bangalore
 Justin
 Nick
 Nick
justin
                                       column=address:city, timestamp=1648178574161, value=Pune
3 row(s) in 0.0490 seconds
hbase(main):007:0>
```

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```
hbase(main):007:0> scan 'customer', {COLUMN=> 'address:city', VERSIONS => 3}
                                            COLUMN+CELL
Justin
                                            column=address:city, timestamp=1648177690285, value=Pune
Nick
                                            column=address:city, timestamp=1648179750220, value=Delhi
Nick
                                           column=address:city, timestamp=1648179722103, value=Bangalore
                                           column=address:city, timestamp=1648179688589, value=Pune column=address:city, timestamp=1648178574161, value=Pune
Nick
justin
3 row(s) in 0.0490 seconds
hbase(main):008:0> scan 'customer', {COLUMN=> 'address:city', VERSIONS => 4}
ROW
                                            COLUMN+CELL
Justin
                                            column=address:city, timestamp=1648177690285, value=Pune
                                           column=address:city, timestamp=1648179750220, value=Delhi column=address:city, timestamp=1648179722103, value=Bangalore
Nick
Nick
                                            column=address:city, timestamp=1648179688589, value=Pune
Nick
Nick
                                            column=address:city, timestamp=1648177267650, value=Mumbai
                                            column=address:city, timestamp=1648178574161, value=Pune
justin
3 row(s) in 0.0240 seconds
```

```
hbase(main):009:0> scan 'customer', {COLUMN=> 'address:city', VERSIONS => 5}

ROW

COLUMN+CELL

Justin

Nick

Nick

Nick

Nick

Nick

Nick

Olumn=address:city, timestamp=1648179750220, value=Delhi

column=address:city, timestamp=1648179722103, value=Bangalore

column=address:city, timestamp=1648179688589, value=Pune

Nick

Nick

Nick

Solumn=address:city, timestamp=1648177267650, value=Mumbai

column=address:city, timestamp=1648178574161, value=Pune

3 row(s) in 0.0170 seconds
```

```
hbase(main):010:0> scan 'customer', {VERSIONS => 5 }
                                                                                              COLUMN+CELL
 Justin
                                                                                             column=address:city, timestamp=1648177690285, value=Pune column=address:city, timestamp=1648179750220, value=Delhi
 Nick
                                                                                             column=address:city, timestamp=1648179750220, value=Delhi column=address:city, timestamp=1648179722103, value=Bangalore column=address:city, timestamp=1648179688589, value=Pune column=address:city, timestamp=1648177267650, value=Mumbai column=address:state, timestamp=1648177277732, value=Maharashtra column=order:amount, timestamp=1648177361907, value=50R column=order:number, timestamp=1648177349416, value=50R-15 column=address:address, timestamp=1648178820085, value=Maharashtra column=address:city_timestamp=1648178574161, value=Pune
  Nick
  Nick
  Nick
  Nick
  Nick
  Nick
  justin
                                                                                              column=address:city, timestamp=1648178574161, value=Pune
  justin
                                                                                              column=order:amount, timestamp=1648178236590, value=60 column=order:number, timestamp=1648178207179, value=ORD-16
  justin
   justin
   row(s) in 0.0420 seconds
```

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MSc DSAI Part 1 - Sem 2

```
hbase(main):011:0> disable 'customer'
0 row(s) in 1.2230 seconds
hbase(main):012:0> drop 'customer'
0 row(s) in 0.1800 seconds
```

Example 2:

```
hbase(main):013:0> create 'emp' ,'office'
0 row(s) in 0.1760 seconds

> Hbase::Table - emp
hbase(main):014:0> list
TABLE
customer1
emp
2 row(s) in 0.0080 seconds

>> ["customer1", "emp"]
hbase(main):015:0> describe 'emp'
Table emp is ENABLED
emp
collumn FAMILIES DESCRIPTION
{NAME => 'office', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', VERSIONS => '1', COMPRESSION => 'NONE', MIN_VERS
IONS => '0', TTL => 'FOREVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', BLOCKCACHE => 'true'}
1 row(s) in 0.0190 seconds
```

```
hbase(main):016:0> put 'emp', '1' , 'office:name', 'Scott'
0 row(s) in 0.0110 seconds
hbase(main):017:0> put 'emp', '2' , 'office:name', 'Mark'
0 row(s) in 0.0090 seconds
hbase(main):018:0> put 'emp', '2' , 'office:gender', 'M'
0 row(s) in 0.0060 seconds
hbase(main):019:0> put 'emp', '2' , 'office:age', '30'
0 row(s) in 0.0050 seconds
hbase(main):020:0> put 'emp', '2' , 'office:age', '50'
0 row(s) in 0.0100 seconds
hbase(main):021:0> put 'emp', '3', 'office:name', 'Jeff'
0 row(s) in 0.0150 seconds
hbase(main):022:0> put 'emp', '3', 'office:salary', '30000'
0 row(s) in 0.0060 seconds
hbase(main):023:0> put 'emp','1','office:age','20'
0 row(s) in 0.0060 seconds
hbase(main):024:0> put 'emp','3','office:age','30'
```

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MSc DSAI Part 1 - Sem 2

```
hbase(main):026:0> get 'emp','2'
```

COLUMN

office:age

office:gender office:name

3 row(s) in 0.0190 seconds

hbase(main):027:0>

CELL

timestamp=1648180496341, value=50

timestamp=1648180475596, value=M timestamp=1648180460340, value=Mark

```
hbase(main):028:0> get 'emp','2' , {COLUMNS=>['office:age','office:name']}
                                               timestamp=1648180496341, value=50
timestamp=1648180460340, value=Mark
office:age
office:name
2 row(s) in 0.0070 seconds
hbase(main):029:0>
```

```
hbase(main):029:0> disable 'emp'
\0 row(s) in 1.1790 seconds
hbase(main):030:0> is disabled 'emp'
true
0 row(s) in 0.0100 seconds
```

```
emp

COLUNN FAMILIES DESCRIPTION

{NAME => 'office', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', VERSIONS => '1', COMPRESSION => 'NONE', MIN_VERSIONS => '0', TIL => 'FOREVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', BLOCKCACHE => 'true'}

1 row(s) in 0.0160 seconds
hbase(main):032:0>
```

```
hbase(main):034:0> disable 'emp'
0 row(s) in 1.1790 seconds
hbase(main):035:0> drop 'emp'
0 row(s) in 0.1730 seconds
hbase(main):036:0>
```