sudo /home/cloudera/cloudera-manager --force --express

sudo -u hdfs hadoop dfsadmin -safemode leave
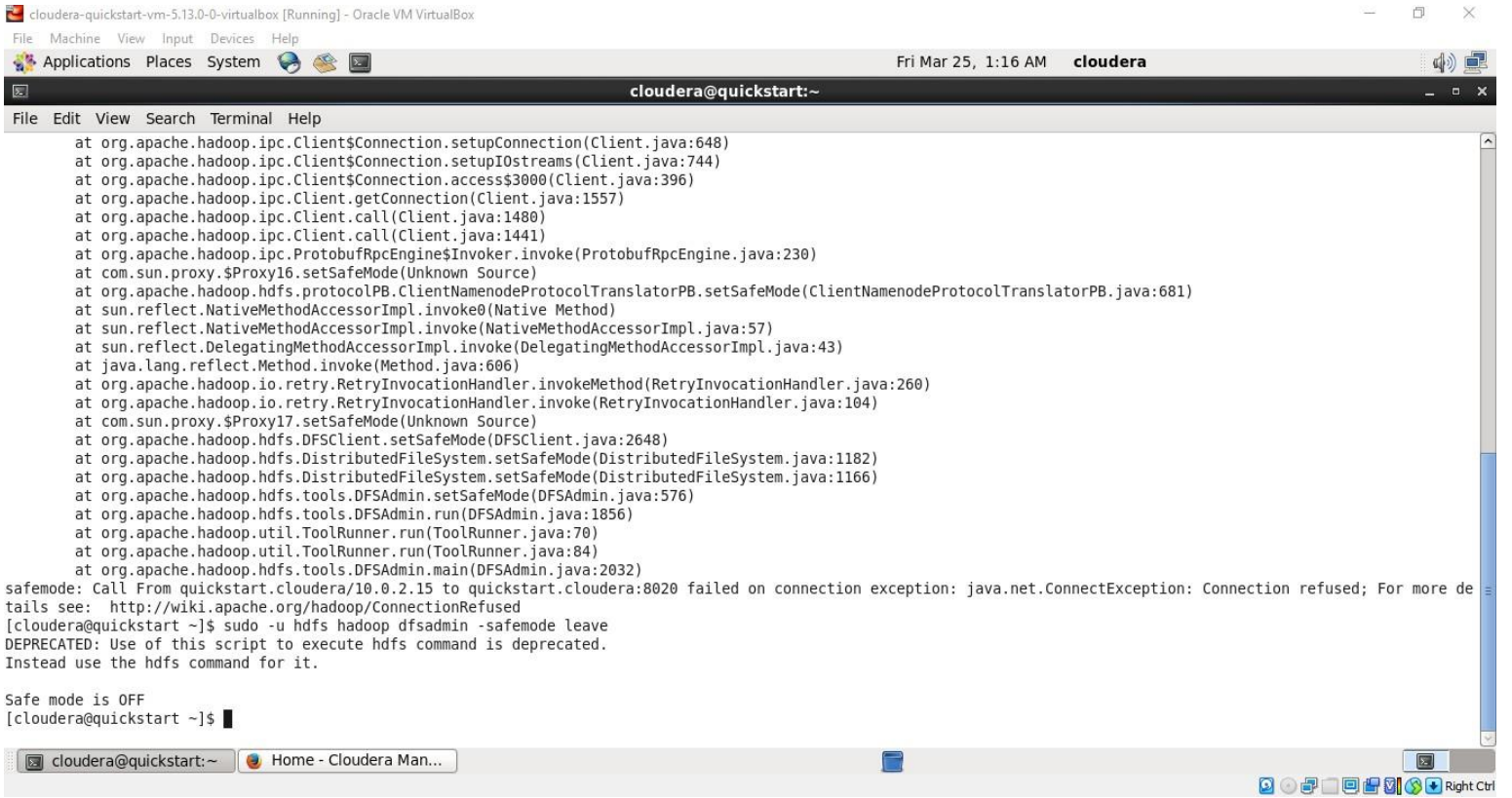
hbase shell
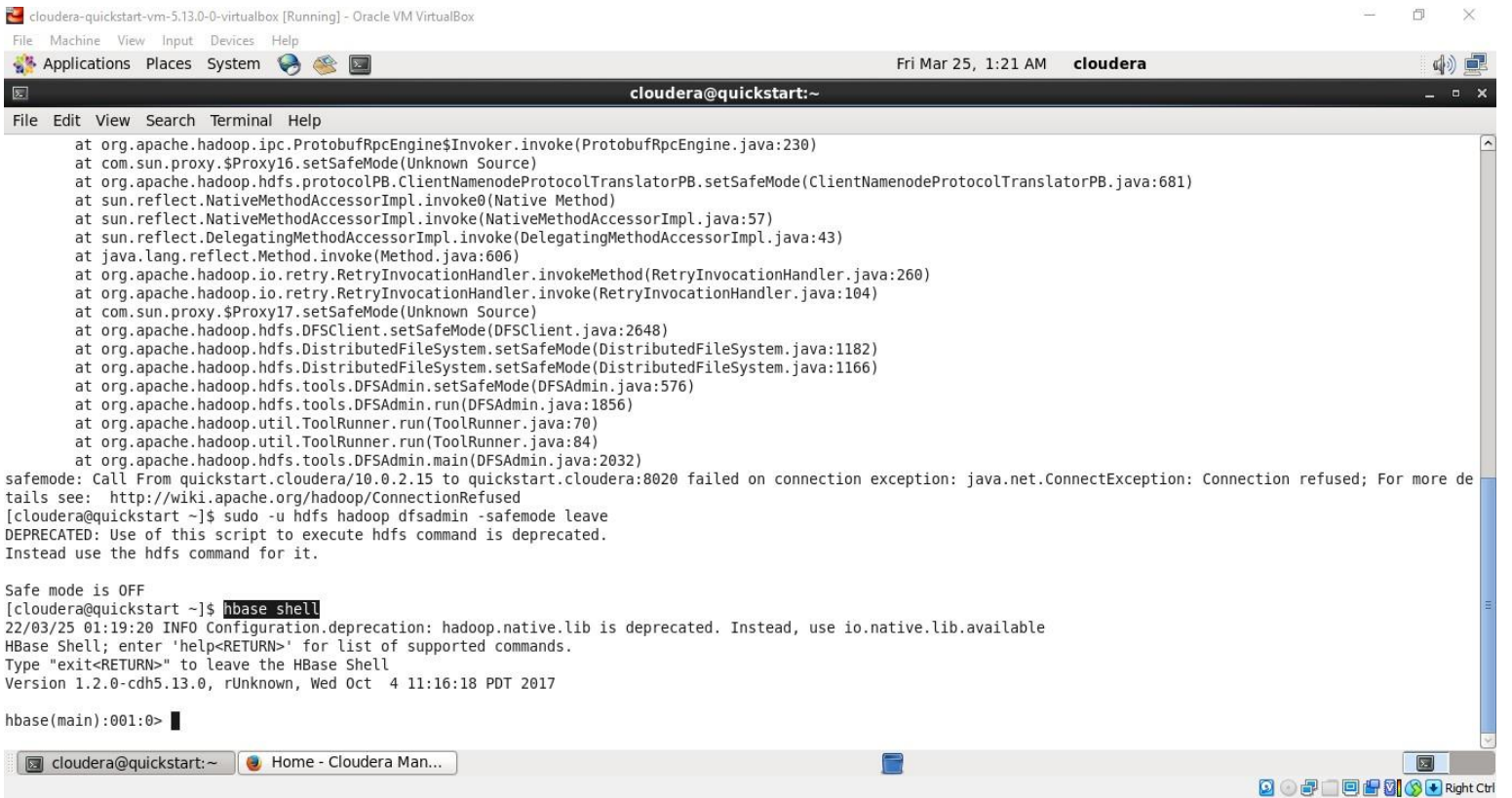
List

create 'customer','address','order'

customer -> table ; address & order -> column_name

put 'customer','Nick','address:city','Mumbai'

put 'customer','Nick','address:state','Maharashtra'
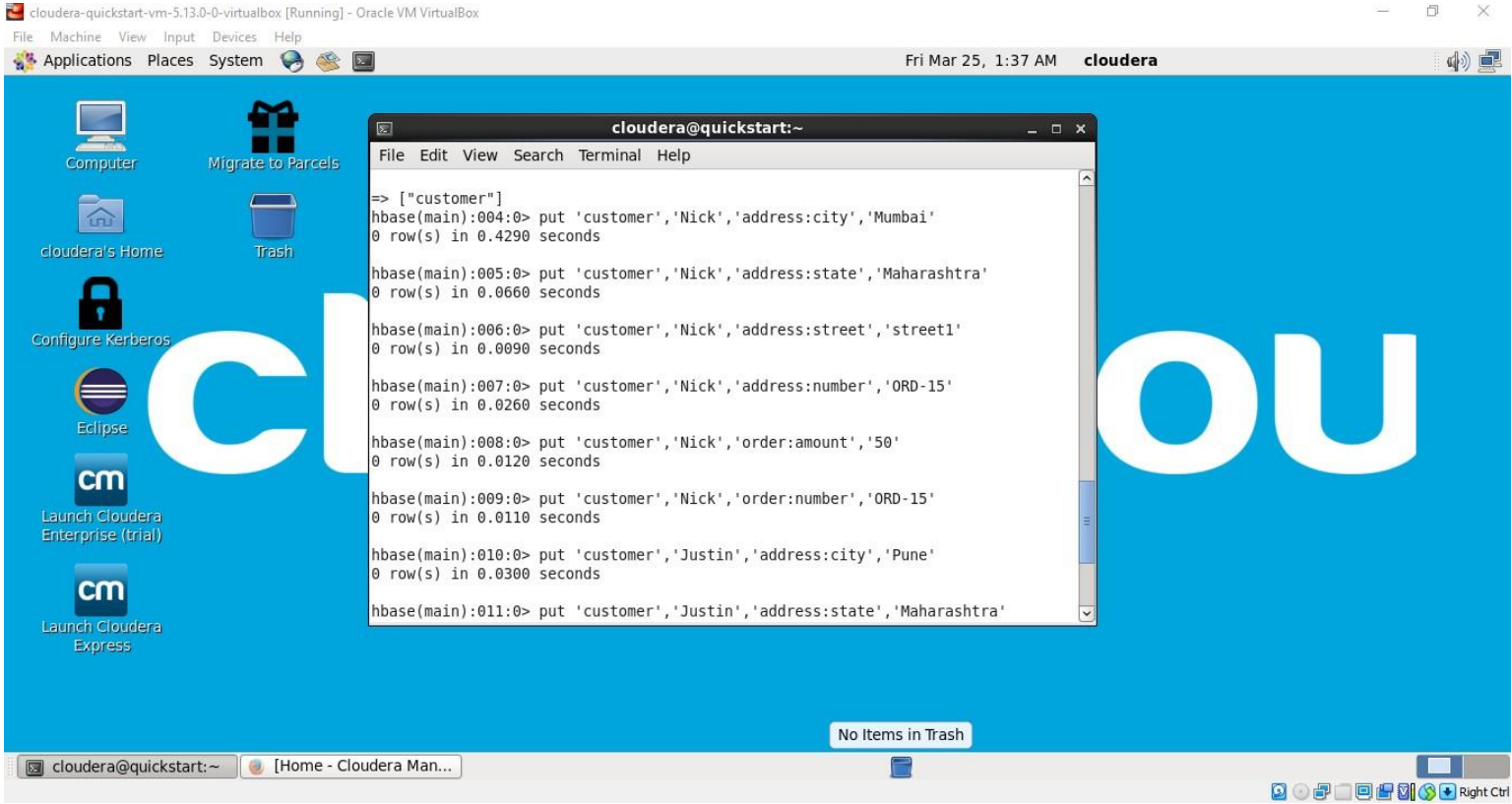
get 'customer', 'Nick'

```
hbase(main):011:0> put 'customer','Justin','address:state','Maharashtra'
0 row(s) in 0.0080 seconds

hbase(main):012:0> put 'customer','Justin','address:street','street2'
0 row(s) in 0.0090 seconds

hbase(main):013:0> put 'customer','Justin','order:number','ORD-16'
0 row(s) in 0.0100 seconds

hbase(main):014:0> put 'customer','Justin','order:amount','60'
0 row(s) in 0.0130 seconds

hbase(main):015:0> get 'customer', 'Nick'
COLUMN                  CELL
 address:city           timestamp=1648197017890, value=Mumbai
 address:number         timestamp=1648197149436, value=ORD-15
 address:state          timestamp=1648197068315, value=Maharashtra
 address:street         timestamp=1648197098129, value=street1
 order:amount           timestamp=1648197193433, value=50
 order:number           timestamp=1648197213674, value=ORD-15
6 row(s) in 0.0490 seconds

hbase(main):016:0>
```



```
hbase(main):014:0> put 'customer','Justin','order:amount','60'
0 row(s) in 0.0130 seconds

hbase(main):015:0> get 'customer', 'Nick'
COLUMN                  CELL
 address:city           timestamp=1648197017890, value=Mumbai
 address:number         timestamp=1648197149436, value=ORD-15
 address:state          timestamp=1648197068315, value=Maharashtra
 address:street         timestamp=1648197098129, value=street1
 order:amount           timestamp=1648197193433, value=50
 order:number           timestamp=1648197213674, value=ORD-15
6 row(s) in 0.0490 seconds

hbase(main):016:0> get 'customer', 'Justin'
COLUMN                  CELL
 address:city           timestamp=1648197260721, value=Pune
 address:state          timestamp=1648197275891, value=Maharashtra
 address:street         timestamp=1648197293721, value=street2
 order:amount           timestamp=1648197354540, value=60
 order:number           timestamp=1648197336014, value=ORD-16
5 row(s) in 0.0260 seconds

hbase(main):017:0>
```
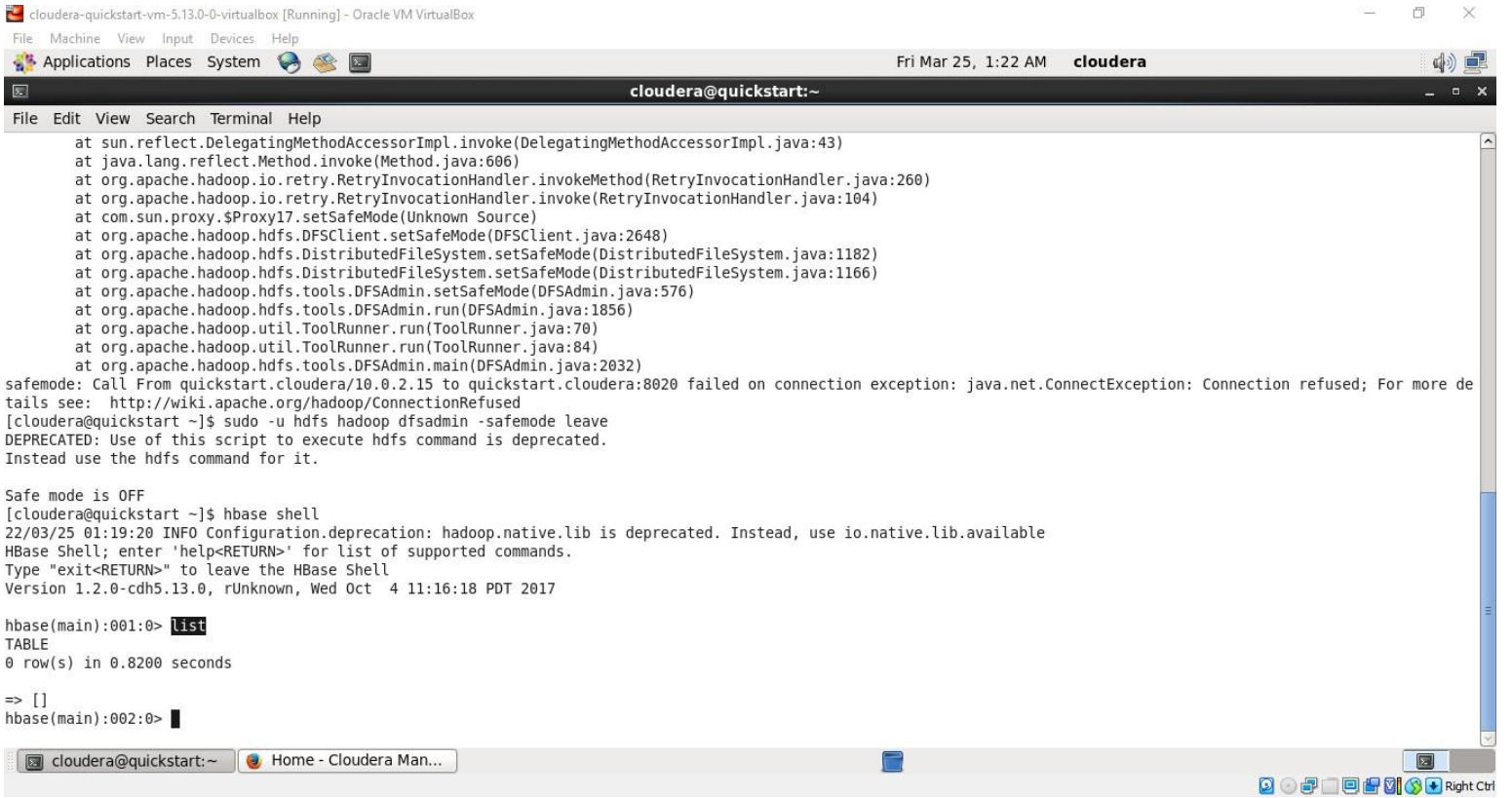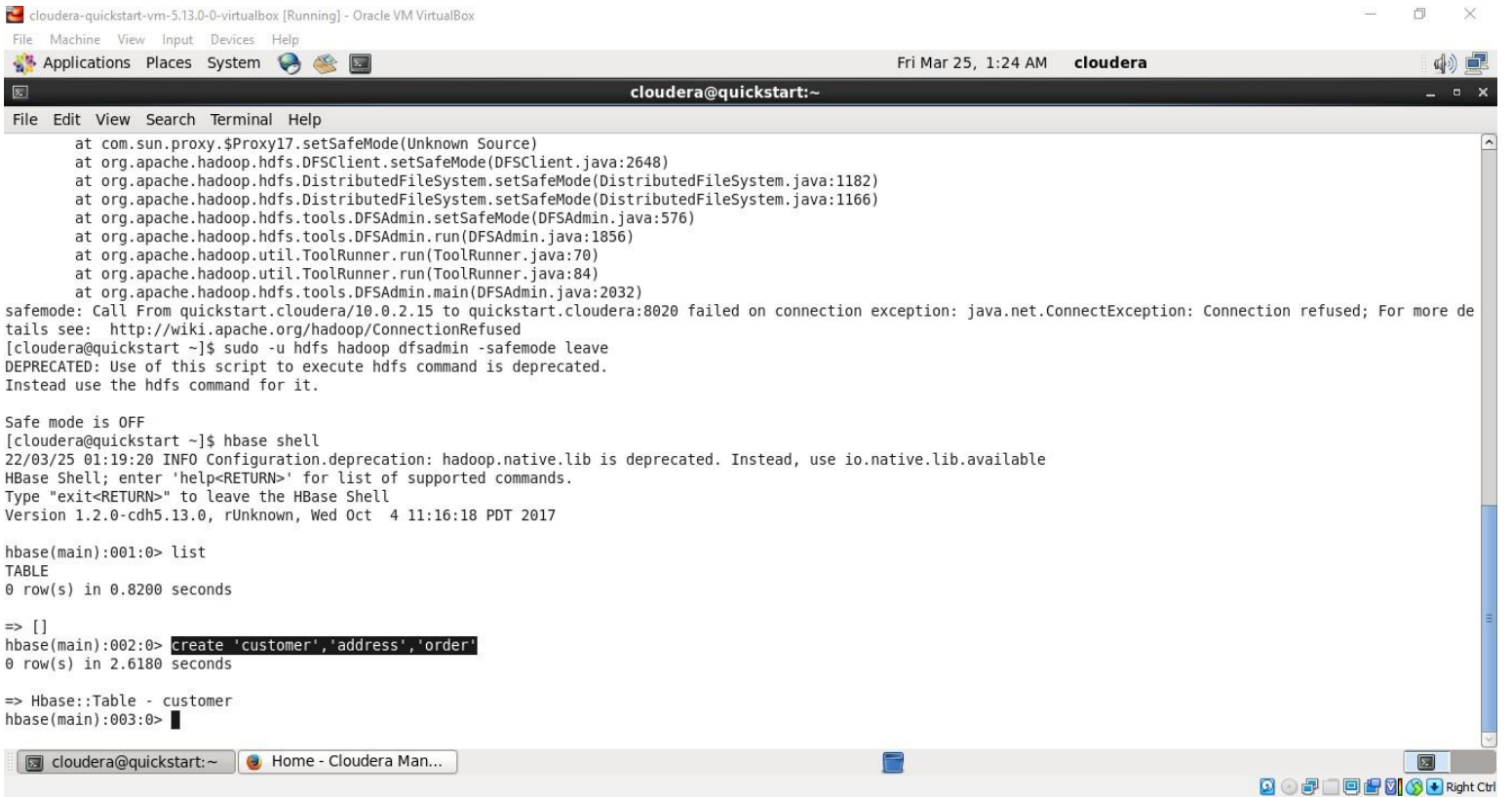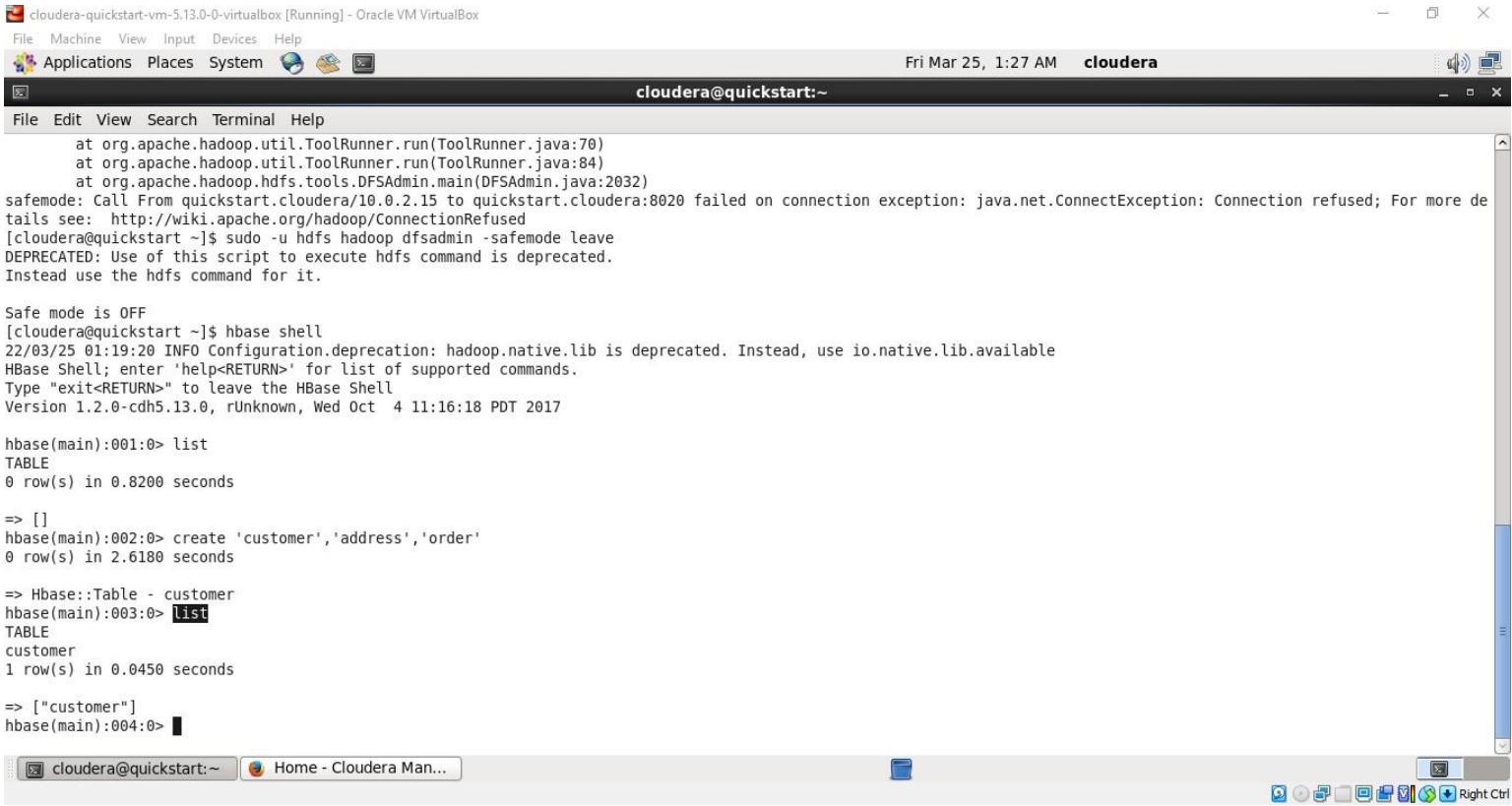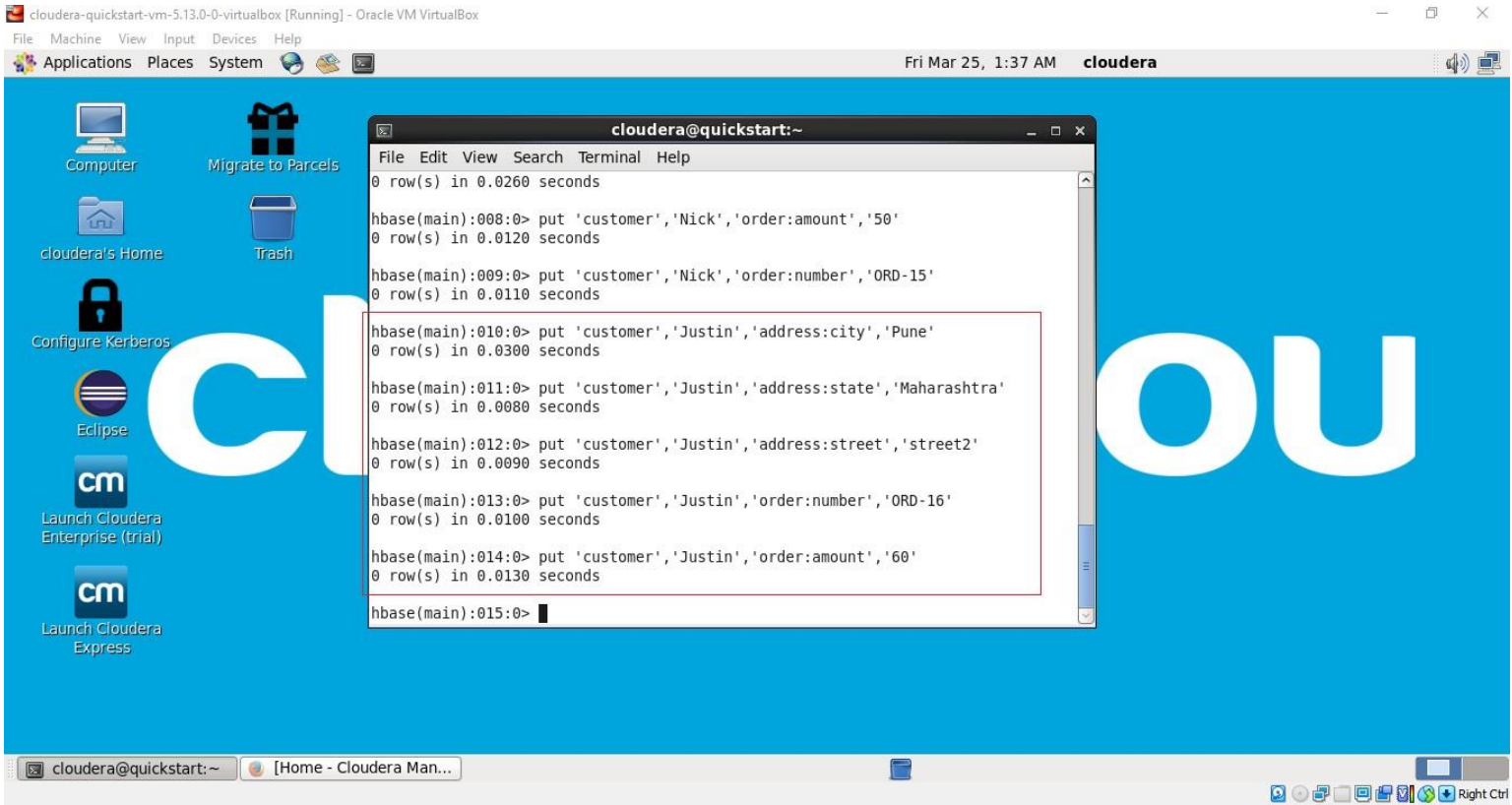
get 'customer', 'Nick','address'
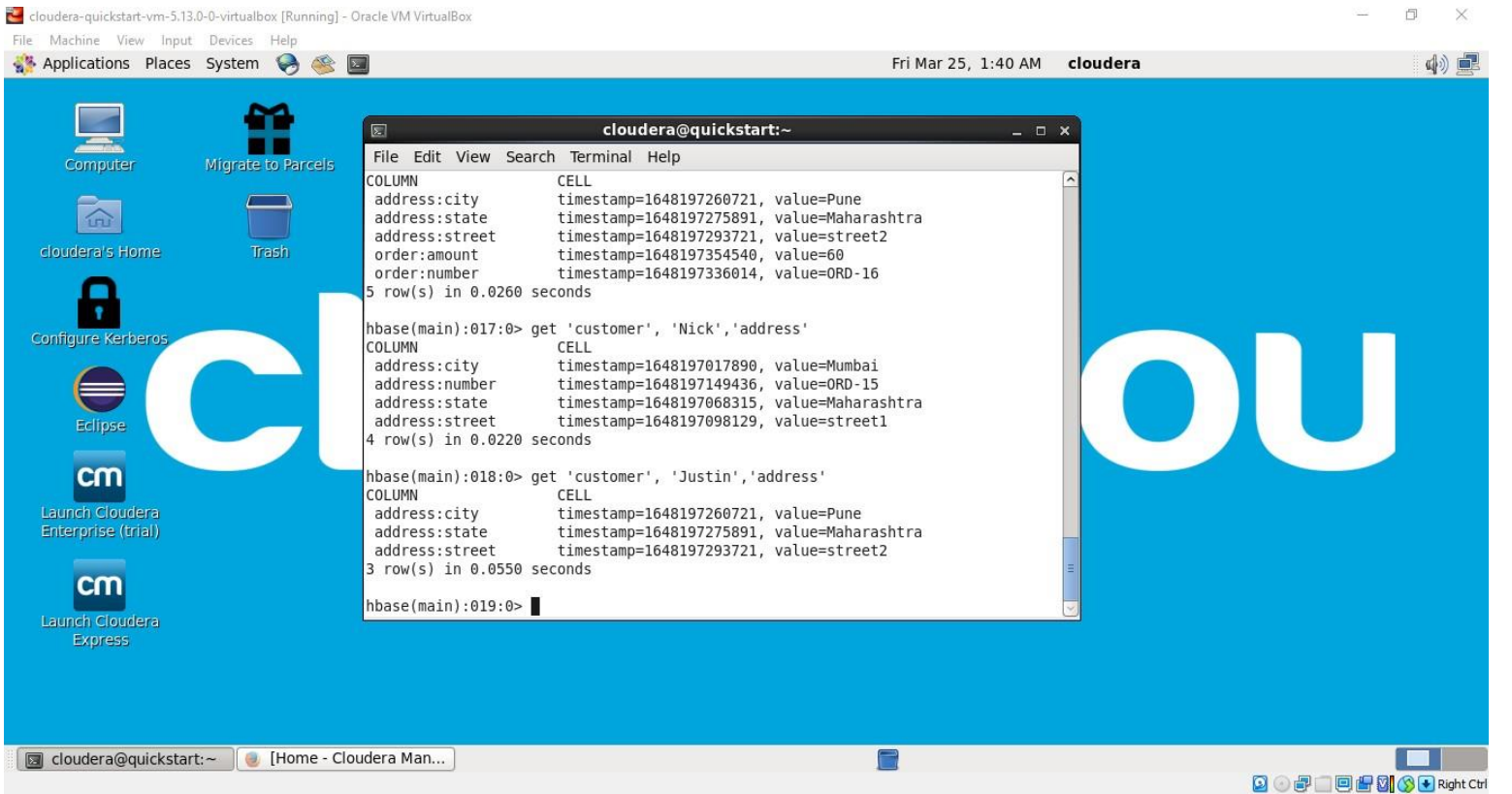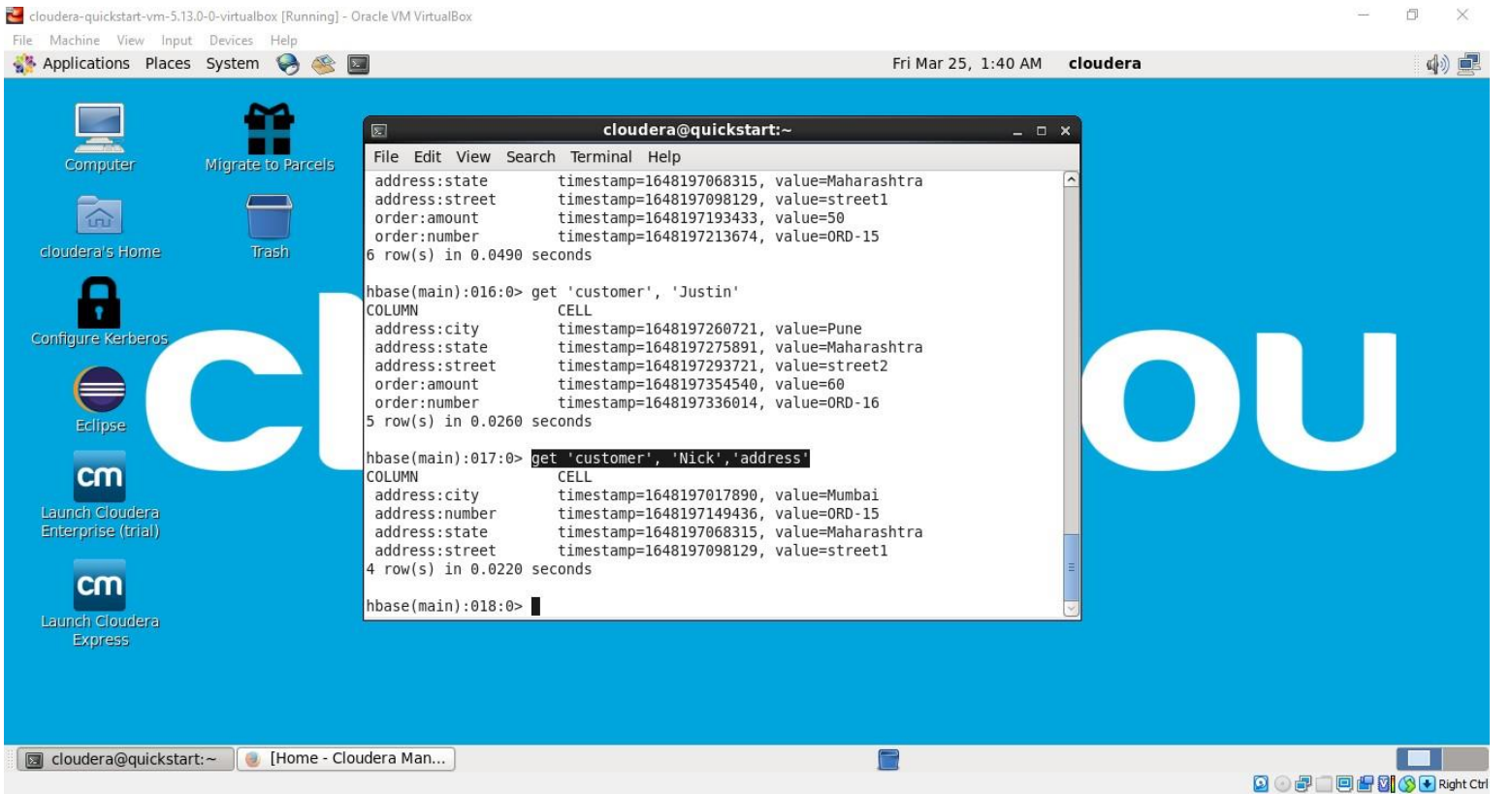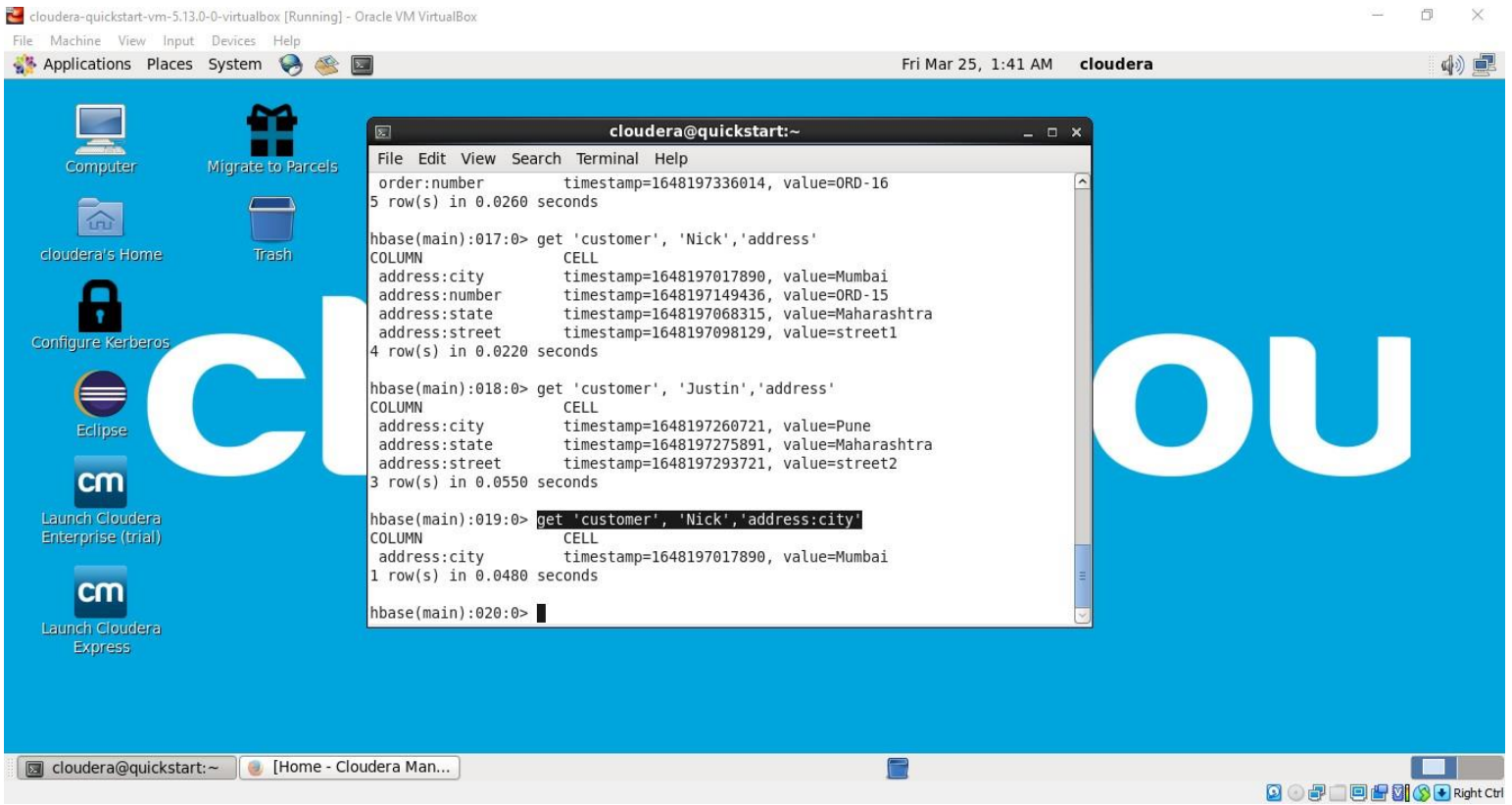
get 'customer', 'Nick','address:city'

scan 'customer'

delete 'customer','Nick','address:street'

```
                            et2
Justin          column=order:amount, timestamp=1648197354540, value=60
Justin          column=order:number, timestamp=1648197336014, value=ORD-16
Nick            column=address:city, timestamp=1648197017890, value=Mumbai
Nick            column=address:number, timestamp=1648197149436, value=ORD-
                            15
Nick            column=address:state, timestamp=1648197068315, value=Mahar
                            ashtra
Nick            column=address:street, timestamp=1648197098129, value=stre
                            et1
Nick            column=order:amount, timestamp=1648197193433, value=50
Nick            column=order:number, timestamp=1648197213674, value=ORD-15
2 row(s) in 0.1280 seconds

hbase(main):021:0> delete 'customer','Nick','address:street'
0 row(s) in 0.0770 seconds

hbase(main):022:0> scan 'customer'
ROW                         COLUMN+CELL
 Justin          column=address:city, timestamp=1648197260721, value=Pune
 Justin          column=address:state, timestamp=1648197275891, value=Maharashtra
 Justin          column=address:street, timestamp=1648197293721, value=street2
 Justin          column=order:amount, timestamp=1648197354540, value=60
 Justin          column=order:number, timestamp=1648197336014, value=ORD-16
 Nick            column=address:city, timestamp=1648197017890, value=Mumbai
 Nick            column=address:number, timestamp=1648197149436, value=ORD-15
 Nick            column=address:state, timestamp=1648197068315, value=Maharashtra
 Nick            column=order:amount, timestamp=1648197193433, value=50
 Nick            column=order:number, timestamp=1648197213674, value=ORD-15
2 row(s) in 0.0590 seconds

hbase(main):023:0>
```

alter 'customer','delete' => 'address'

```
0 row(s) in 0.0770 seconds

hbase(main):022:0> scan 'customer'
ROW                         COLUMN+CELL
 Justin          column=address:city, timestamp=1648197260721, value=Pune
 Justin          column=address:state, timestamp=1648197275891, value=Maharashtra
 Justin          column=address:street, timestamp=1648197293721, value=street2
 Justin          column=order:amount, timestamp=1648197354540, value=60
 Justin          column=order:number, timestamp=1648197336014, value=ORD-16
 Nick            column=address:city, timestamp=1648197017890, value=Mumbai
 Nick            column=address:number, timestamp=1648197149436, value=ORD-15
 Nick            column=address:state, timestamp=1648197068315, value=Maharashtra
 Nick            column=order:amount, timestamp=1648197193433, value=50
 Nick            column=order:number, timestamp=1648197213674, value=ORD-15
2 row(s) in 0.0590 seconds

hbase(main):023:0> alter 'customer','delete' => 'address'
Updating all regions with the new schema...
0/1 regions updated.
1/1 regions updated.
Done.
0 row(s) in 3.4640 seconds

hbase(main):024:0> scan 'customer'
ROW                         COLUMN+CELL
 Justin          column=order:amount, timestamp=1648197354540, value=60
 Justin          column=order:number, timestamp=1648197336014, value=ORD-16
 Nick            column=order:amount, timestamp=1648197193433, value=50
 Nick            column=order:number, timestamp=1648197213674, value=ORD-15
2 row(s) in 0.0340 seconds

hbase(main):025:0>
```

desc 'customer'

create 'customer1',{NAME => 'address', VERSIONS => 3}

```
1/1 regions updated.
Done.
0 row(s) in 3.4640 seconds

hbase(main):024:0> scan 'customer'
ROW                        COLUMN+CELL
 Justin                    column=order:amount, timestamp=1648197354540, value=60
 Justin                    column=order:number, timestamp=1648197336014, value=ORD-16
 Nick                      column=order:amount, timestamp=1648197193433, value=50
 Nick                      column=order:number, timestamp=1648197213674, value=ORD-15
2 row(s) in 0.0340 seconds

hbase(main):025:0> desc 'customer'
Table customer is ENABLED
customer
COLUMN FAMILIES DESCRIPTION
{NAME => 'order', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', VERSIONS => '1', COMPRESSION => 'NONE', MIN_VERSIONS => '0', TTL => 'FO
REVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', BLOCKCACHE => 'true'}
1 row(s) in 0.0840 seconds

hbase(main):026:0> create 'customer1',{NAME => 'address', VERSIONS => 3}
0 row(s) in 1.3020 seconds

=> Hbase::Table - customer1
hbase(main):027:0> list
TABLE
customer
customer1
2 row(s) in 0.0060 seconds

=> ["customer", "customer1"]
hbase(main):028:0>
```

count 'customer'

```
hbase(main):024:0> scan 'customer'
ROW                        COLUMN+CELL
 Justin                    column=order:amount, timestamp=1648197354540, value=60
 Justin                    column=order:number, timestamp=1648197336014, value=ORD-16
 Nick                      column=order:amount, timestamp=1648197193433, value=50
 Nick                      column=order:number, timestamp=1648197213674, value=ORD-15
2 row(s) in 0.0340 seconds

hbase(main):025:0> desc 'customer'
Table customer is ENABLED
customer
COLUMN FAMILIES DESCRIPTION
{NAME => 'order', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', VERSIONS => '1', COMPRESSION => 'NONE', MIN_VERSIONS => '0', TTL => 'FO
REVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', BLOCKCACHE => 'true'}
1 row(s) in 0.0840 seconds

hbase(main):026:0> create 'customer1',{NAME => 'address', VERSIONS => 3}
0 row(s) in 1.3020 seconds

=> Hbase::Table - customer1
hbase(main):027:0> list
TABLE
customer
customer1
2 row(s) in 0.0060 seconds

=> ["customer", "customer1"]
hbase(main):028:0> count 'customer'
2 row(s) in 0.2910 seconds

=> 2
hbase(main):029:0>
```

alter 'customer', NAME => 'address', VERSIONS => 5

```
2 row(s) in 0.0340 seconds

hbase(main):025:0> desc 'customer'
Table customer is ENABLED
customer
COLUMN FAMILIES DESCRIPTION
{NAME => 'order', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', VERSIONS => '1', COMPRESSION => 'NONE', MIN_VERSIONS => '0', TTL => 'FO
REVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', BLOCKCACHE => 'true'}
1 row(s) in 0.0840 seconds

hbase(main):026:0> create 'customer1',{NAME => 'address', VERSIONS => 3}
0 row(s) in 1.3020 seconds

=> Hbase::Table - customer1
hbase(main):027:0> list
TABLE
customer
customer1
2 row(s) in 0.0060 seconds

=> ["customer", "customer1"]
hbase(main):028:0> count 'customer'
2 row(s) in 0.2910 seconds

=> 2
hbase(main):029:0> alter 'customer', NAME => 'address', VERSIONS => 5
Updating all regions with the new schema...
1/1 regions updated.
Done.
0 row(s) in 2.3090 seconds

hbase(main):030:0>
```

```
hbase(main):026:0> create 'customer1',{NAME => 'address', VERSIONS => 3}
0 row(s) in 1.3020 seconds

=> Hbase::Table - customer1
hbase(main):027:0> list
TABLE
customer
customer1
2 row(s) in 0.0060 seconds

=> ["customer", "customer1"]
hbase(main):028:0> count 'customer'
2 row(s) in 0.2910 seconds

=> 2
hbase(main):029:0> alter 'customer', NAME => 'address', VERSIONS => 5
Updating all regions with the new schema...
1/1 regions updated.
Done.
0 row(s) in 2.3090 seconds

hbase(main):030:0> desc 'customer'
Table customer is ENABLED
customer
COLUMN FAMILIES DESCRIPTION
{NAME => 'address', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', COMPRESSION => 'NONE', VERSIONS => '5', TTL => 'FOREVER', MIN_VERSION
S => '0', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', BLOCKCACHE => 'true'}
{NAME => 'order', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', VERSIONS => '1', COMPRESSION => 'NONE', MIN_VERSIONS => '0', TTL => 'FO
REVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', BLOCKCACHE => 'true'}
2 row(s) in 0.0710 seconds

hbase(main):031:0>
```

```
=> 2
hbase(main):029:0> alter 'customer', NAME => 'address', VERSIONS => 5
Updating all regions with the new schema...
1/1 regions updated.
Done.
0 row(s) in 2.3090 seconds

hbase(main):030:0> desc 'customer'
Table customer is ENABLED
customer
COLUMN FAMILIES DESCRIPTION
{NAME => 'address', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', COMPRESSION => 'NONE', VERSIONS => '5', TTL => 'FOREVER', MIN_VERSION
S => '0', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', BLOCKCACHE => 'true'}
{NAME => 'order', DATA_BLOCK_ENCODING => 'NONE', BLOOMFILTER => 'ROW', REPLICATION_SCOPE => '0', VERSIONS => '1', COMPRESSION => 'NONE', MIN_VERSIONS => '0', TTL => 'FO
REVER', KEEP_DELETED_CELLS => 'FALSE', BLOCKSIZE => '65536', IN_MEMORY => 'false', BLOCKCACHE => 'true'}
2 row(s) in 0.0710 seconds

hbase(main):031:0> scan 'customer'
ROW                           COLUMN+CELL
 Justin                       column=address:city, timestamp=1648197260721, value=Pune
 Justin                       column=address:state, timestamp=1648197275891, value=Maharashtra
 Justin                       column=address:street, timestamp=1648197293721, value=street2
 Justin                       column=order:amount, timestamp=1648197354540, value=60
 Justin                       column=order:number, timestamp=1648197336014, value=ORD-16
 Nick                         column=address:city, timestamp=1648197017890, value=Mumbai
 Nick                         column=address:number, timestamp=1648197149436, value=ORD-15
 Nick                         column=address:state, timestamp=1648197068315, value=Maharashtra
 Nick                         column=order:amount, timestamp=1648197193433, value=50
 Nick                         column=order:number, timestamp=1648197213674, value=ORD-15
2 row(s) in 0.0910 seconds

hbase(main):032:0>
```

```
 Justin                       column=order:number, timestamp=1648197336014, value=ORD-16
 Nick                         column=address:city, timestamp=1648197017890, value=Mumbai
 Nick                         column=address:number, timestamp=1648197149436, value=ORD-15
 Nick                         column=address:state, timestamp=1648197068315, value=Maharashtra
 Nick                         column=order:amount, timestamp=1648197193433, value=50
 Nick                         column=order:number, timestamp=1648197213674, value=ORD-15
2 row(s) in 0.0910 seconds

hbase(main):032:0> put 'customer','Nick','address:city','Pune'
0 row(s) in 0.0130 seconds

hbase(main):033:0> put 'customer','Nick','address:city','Bangalore'
0 row(s) in 0.0140 seconds

hbase(main):034:0> put 'customer','Nick','address:city','Delhi'
0 row(s) in 0.0190 seconds

hbase(main):035:0> scan 'customer'
ROW                           COLUMN+CELL
 Justin                       column=address:city, timestamp=1648197260721, value=Pune
 Justin                       column=address:state, timestamp=1648197275891, value=Maharashtra
 Justin                       column=address:street, timestamp=1648197293721, value=street2
 Justin                       column=order:amount, timestamp=1648197354540, value=60
 Justin                       column=order:number, timestamp=1648197336014, value=ORD-16
 Nick                         column=address:city, timestamp=1648198762680, value=Delhi
 Nick                         column=address:number, timestamp=1648197149436, value=ORD-15
 Nick                         column=address:state, timestamp=1648197068315, value=Maharashtra
 Nick                         column=order:amount, timestamp=1648197193433, value=50
 Nick                         column=order:number, timestamp=1648197213674, value=ORD-15
2 row(s) in 0.0280 seconds

hbase(main):036:0>
```

scan 'customer', {COLUMN => 'address:city', VERSIONS => 2}


```
hbase(main):032:0> put 'customer','Nick','address:city','Pune'
0 row(s) in 0.0130 seconds

hbase(main):033:0> put 'customer','Nick','address:city','Bangalore'
0 row(s) in 0.0140 seconds

hbase(main):034:0> put 'customer','Nick','address:city','Delhi'
0 row(s) in 0.0190 seconds

hbase(main):035:0> scan 'customer'
ROW                        COLUMN+CELL
 Justin                    column=address:city, timestamp=1648197260721, value=Pune
 Justin                    column=address:state, timestamp=1648197275891, value=Maharashtra
 Justin                    column=address:street, timestamp=1648197293721, value=street2
 Justin                    column=order:amount, timestamp=1648197354540, value=60
 Justin                    column=order:number, timestamp=1648197336014, value=ORD-16
 Nick                      column=address:city, timestamp=1648198762680, value=Delhi
 Nick                      column=address:number, timestamp=1648197149436, value=ORD-15
 Nick                      column=address:state, timestamp=1648197068315, value=Maharashtra
 Nick                      column=order:amount, timestamp=1648197193433, value=50
 Nick                      column=order:number, timestamp=1648197213674, value=ORD-15
2 row(s) in 0.0280 seconds

hbase(main):036:0> scan 'customer', {COLUMN => 'address:city', VERSIONS => 2}
ROW                        COLUMN+CELL
 Justin                    column=address:city, timestamp=1648197260721, value=Pune
 Nick                      column=address:city, timestamp=1648198762680, value=Delhi
 Nick                      column=address:city, timestamp=1648198755614, value=Bangalore
2 row(s) in 0.0260 seconds

hbase(main):037:0>
```



```
 Nick                      column=address:city, timestamp=1648198755614, value=Bangalore
 Nick                      column=address:city, timestamp=1648198734145, value=Pune
2 row(s) in 0.0350 seconds

hbase(main):038:0> scan 'customer', {COLUMN => 'address:city', VERSIONS => 1}
ROW                        COLUMN+CELL
 Justin                    column=address:city, timestamp=1648197260721, value=Pune
 Nick                      column=address:city, timestamp=1648198762680, value=Delhi
2 row(s) in 0.0220 seconds

hbase(main):039:0> scan 'customer', {COLUMN => 'address:city', VERSIONS => 0}
ROW                        COLUMN+CELL
 Justin                    column=address:city, timestamp=1648197260721, value=Pune
 Nick                      column=address:city, timestamp=1648198762680, value=Delhi
2 row(s) in 0.0290 seconds

hbase(main):040:0> scan 'customer', {COLUMN => 'address:city', VERSIONS => 4}
ROW                        COLUMN+CELL
 Justin                    column=address:city, timestamp=1648197260721, value=Pune
 Nick                      column=address:city, timestamp=1648198762680, value=Delhi
 Nick                      column=address:city, timestamp=1648198755614, value=Bangalore
 Nick                      column=address:city, timestamp=1648198734145, value=Pune
 Nick                      column=address:city, timestamp=1648197017890, value=Mumbai
2 row(s) in 0.0540 seconds

hbase(main):041:0> scan 'customer', {COLUMN => 'address:city', VERSIONS => 5}
ROW                        COLUMN+CELL
 Justin                    column=address:city, timestamp=1648197260721, value=Pune
 Nick                      column=address:city, timestamp=1648198762680, value=Delhi
 Nick                      column=address:city, timestamp=1648198755614, value=Bangalore
 Nick                      column=address:city, timestamp=1648198734145, value=Pune
 Nick                      column=address:city, timestamp=1648197017890, value=Mumbai
```

scan 'customer', {VERSIONS => 5}

disable 'customer'

drop 'customer'