

Basic HBase Shell Commands

Note: The commands in the image are visible when zoomed in.

Command 1

```
hadoop@ip-172-31-46-74:~$ hbase shell
2024-12-06 06:14:57.387 main ERROR Unable to locate appender "DRFAS" for logger config "SecurityLogger"
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-reload4j-1.7.36.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/lib/hbase/lib/client-facing-thirdparty/log4j-slf4j-impl-2.17.2.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
log4j:ERROR setFile(null,true) call failed.
java.io.FileNotFoundException: /var/log/hbase/hbase.log (Permission denied)
    at java.base/java.io.FileOutputStream.open0(Native Method)
    at java.base/java.io.FileOutputStream.open(FileOutputStream.java:293)
    at java.base/java.io.FileOutputStream.<init>(FileOutputStream.java:235)
    at java.base/java.io.FileOutputStream.<init>(FileOutputStream.java:155)
    at org.apache.log4j.FileAppender.setFile(FileAppender.java:262)
    at org.apache.log4j.FileAppender.activateOptions(FileAppender.java:166)
    at org.apache.log4j.DailyRollingFileAppender.activateOptions(DailyRollingFileAppender.java:216)
    at org.apache.log4j.config.PropertySetter.activate(PropertySetter.java:284)
    at org.apache.log4j.config.PropertySetter.setProperties(PropertySetter.java:160)
    at org.apache.log4j.config.PropertySetter.setProperties(PropertySetter.java:100)
    at org.apache.log4j.PropertyConfigurator.parseAppender(PropertyConfigurator.java:802)
    at org.apache.log4j.PropertyConfigurator.parseCategory(PropertyConfigurator.java:738)
    at org.apache.log4j.PropertyConfigurator.configureRootCategory(PropertyConfigurator.java:630)
    at org.apache.log4j.PropertyConfigurator.doConfigure(PropertyConfigurator.java:516)
    at org.apache.log4j.PropertyConfigurator.doConfigure(PropertyConfigurator.java:577)
    at org.apache.log4j.helpers.OptionConverter.selectAndConfigure(OptionConverter.java:504)
    at org.apache.log4j.LogManager.<clinit>(LogManager.java:119)
    at org.slf4j.impl.Reload4jLoggerFactory.<clinit>(Reload4jLoggerFactory.java:67)
    at org.slf4j.impl.StaticLoggerBinder.<clinit>(StaticLoggerBinder.java:72)
    at org.slf4j.impl.StaticLoggerBinder.<clinit>(StaticLoggerBinder.java:45)
    at org.slf4j.LoggerFactory.bind(LoggerFactory.java:150)
    at org.slf4j.LoggerFactory.performInitialization(LoggerFactory.java:124)
    at org.slf4j.LoggerFactory.getLogger(LoggerFactory.java:417)
    at org.slf4j.LoggerFactory.getLogger(LoggerFactory.java:362)
    at org.slf4j.LoggerFactory.getLogger(LoggerFactory.java:380)
    at org.apache.hadoop.hbase.TableName.<clinit>(TableName.java:51)
    at org.apache.hadoop.hbase.HConstants.<clinit>(HConstants.java:178)
    at java.base/java.lang.Class.forName0(Native Method)
    at java.base/java.lang.Class.forName(Class.java:467)
    at org.jruby.javasupport.JavaSupportImpl.loadJavaClass(JavaSupportImpl.java:157)
    at org.jruby.javasupport.Java.getProxyClassOrNull(Java.java:961)
    at org.jruby.javasupport.Java.getProxyClassOrNull(Java.java:948)
    at org.jruby.javasupport.Java.getProxyOrPackageUnderPackage(Java.java:905)
    at org.jruby.javasupport.JavaPackage.method_missing(JavaPackage.java:252)
    at org.jruby.javasupport.JavaPackage$INVOKER$ismethod_missing.call(JavaPackage$INVOKER$ismethod_missing.gen)
    at org.jruby.internal.runtime.methods.JavaMethod$JavaMethodN.call(JavaMethod.java:833)
    at org.jruby.runtime.Helpers$MethodMissingMethod.call(Helpers.java:408)
    at org.jruby.internal.runtime.methods.DynamicMethod.call(DynamicMethod.java:196)
    at org.jruby.runtime.callsite.CachingCallSite.callMethodMissing(CachingCallSite.java:439)
    at org.jruby.runtime.callsite.CachingCallSite.cacheAndCall(CachingCallSite.java:351)
    at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:143)
```

Commands 2-5

```
hadoop@ip-172-31-46-74~$  
Took 1.1061 seconds  
hbase:002:0> status  
1 active master, 0 backup masters, 1 servers, 0 dead, 2.0000 average load  
Took 0.0110 seconds  
hbase:003:0> status 'simple'  
active master: ip-172-31-46-74.ec2.internal:16000 1733464137069  
0 backup masters  
1 live servers  
ip-172-31-47-55.ec2.internal:16020 1733463816728  
requestsPerSecond=0.0, numberOfOnlineRegions=2, usedHeapMB=239, maxHeapMB=3072, numberOfStores=4, numberOfStorefiles=3, storefileUncompressedSizeMB=2, storefileSizeMB=2, compressionRatio=1.0000, memstoreSizeMB=0, storefileIndexSizeKB=2, readRequestsCount=20, filteredReadRequestsCount=0, writeRequestsCount=7, rootIndexSizeKB=2, totalStaticIndexSizeKB=2, totalStaticBloomSizeKB=2, totalCompactingKVs=0, currentCompactedKVs=0, compactionProgressPct=NaN, coprocessors=[MultiRowMutationEndpoint, RefreshHFilesEndpoint]  
0 dead servers  
Aggregate load: 0, regions: 2  
Took 0.0244 seconds  
hbase:004:0> status 'summary'  
1 active master, 0 backup masters, 1 servers, 0 dead, 2.0000 average load  
Took 0.0086 seconds  
hbase:005:0> status 'detailed'  
version 2.5.5-amzn-0  
0 regionsInTransition  
active master: ip-172-31-46-74.ec2.internal:16000 1733464137069  
RpcServer.default.FFQ.Fifo.handler=29,queue=2,port=16000: status=Servicing call from 172.31.46.74:42406: GetClusterStatus, state=RUNNING, startTime=1733464154348, completionTime=-1  
RpcServer.priority.FFQ.Fifo.write.handler=0,queue=0,port=16000: status=Waiting for a call, state=WAITING, startTime=1733464161271, completionTime=-1  
RpcServer.metaPriority.FFQ.Fifo.handler=0,queue=0,port=16000: status=Waiting for a call, state=WAITING, startTime=1733464162514, completionTime=-1  
RpcServer.priority.RWQ.Fifo.write.handler=1,queue=0,port=16000: status=Waiting for a call, state=WAITING, startTime=1733464164331, completionTime=-1  
0 backup masters  
master coprocessors: []  
1 live servers  
ip-172-31-47-55.ec2.internal:16020 1733463816728  
requestsPerSecond=0.0, numberOfOnlineRegions=2, usedHeapMB=239, maxHeapMB=3072, numberOfStores=4, numberOfStorefiles=3, storefileUncompressedSizeMB=2, storefileSizeMB=2, compressionRatio=1.0000, memstoreSizeMB=0, storefileIndexSizeKB=2, readRequestsCount=20, filteredReadRequestsCount=0, writeRequestsCount=7, rootIndexSizeKB=2, totalStaticIndexSizeKB=2, totalStaticBloomSizeKB=2, totalCompactingKVs=0, currentCompactedKVs=0, compactionProgressPct=NaN, coprocessors=[MultiRowMutationEndpoint, RefreshHFilesEndpoint]  
"hbase:meta",1,  
numberOfStores=3, numberOfStorefiles=2, storeRefCount=0, storefileUncompressedSizeMB=1024, lastMajorCompactionTimestamp=0, storefileSizeMB=1, compressionRatio=0.0010, memstoreSizeMB=0, readRequestsCount=14, writeRequestsCount=5, rootIndexSizeKB=1, totalStaticIndexSizeKB=1, totalStaticBloomSizeKB=1, totalCompactingKVs=0, currentCompactedKVs=0, compactionProgressPct=-NaN, completedSequenceId=0, dataLocality=1.0  
"hbase:namespace",1733464167516,addd9df2beb5e4861d92339c95ac43a,"  
numberOfStores=1, numberOfStorefiles=1, storeRefCount=0, storefileUncompressedSizeMB=1024, lastMajorCompactionTimestamp=0, storefileSizeMB=1, compressionRatio=0.0010, memstoreSizeMB=0, readRequestsCount=6, writeRequestsCount=2, rootIndexSizeKB=1, totalStaticIndexSizeKB=1, totalStaticBloomSizeKB=1, totalCompactingKVs=0, currentCompactedKVs=0, compactionProgressPct=-NaN, completedSequenceId=6, dataLocality=1.0  
RpcServer.priority.RWQ.Fifo.read.handler=2,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464161949, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=3,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464167217, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=4,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464167293, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=5,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464167510, completionTime=-1  
RpcServer.priority.RWQ.Fifo.write.handler=0,queue=0,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464168079, completionTime=-1  
RpcServer.priority.RWQ.Fifo.write.handler=1,queue=0,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464168161, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=6,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464168538, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=7,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464168669, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=8,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464168710, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=9,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464168749, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=10,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464168805, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=11,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464168821, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=12,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464168867, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=13,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464467512, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=14,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464467528, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=15,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464467563, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=16,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733464467611, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=17,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733465071021, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=18,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733465071029, completionTime=-1  
RpcServer.priority.RWQ.Fifo.read.handler=19,queue=1,port=16020: status=Waiting for a call, state=WAITING, startTime=1733465369226, completionTime=-1  
0 dead servers  
Took 0.0304 seconds  
-> *CJava:JavaUtil:Collections:UnmodifiableRandomAccessList:0x3958db82*
```

Commands 6-19

```
hadoop@ip-172-31-46-74:~$
Took 0.0304 seconds
=> #<Java::JavaUtil::Collections::UnmodifiableRandomAccessList:0x3958db82>
hbase:006:0> version
2.5.5-amzn-0, c3243145930543cc64da58161007ab4b5dd34e9d, Wed Oct 23 05:06:50 AM UTC 2024
Took 0.0004 seconds
hbase:007:0> whoami
hadoop (auth:SIMPLE)
groups: hadoop, hdfsadmin,group
Took 0.0273 seconds
hbase:008:0> create 'myFirstTable', (NAME =>'familyOne', VERSIONS => 5)
Created table myFirstTable
Took 1.3087 seconds
=> Hbase::Table - myFirstTable
hbase:009:0> create 'mySecondTable', (NAME =>'familyOne'), (NAME =>'familyTwo'), (NAME =>'familyThree')
Created table mySecondTable
Took 0.6395 seconds
=> Hbase::Table - mySecondTable
hbase:010:0> create 'myThirdTable', 'familyOne', 'familyTwo', 'familyThree'
Created table myThirdTable
Took 0.6331 seconds
=> Hbase::Table - myThirdTable
hbase:011:0> create 'myFourthTable', (NAME =>'familyOne', VERSIONS => 1, TTL => 2592000, BLOCKCACHE => true)
Created table myFourthTable
Took 0.6358 seconds
=> Hbase::Table - myFourthTable
hbase:012:0> create 'myFifthTable', (NAME =>'familyOne', CONFIGURATION => {'hbase.hstore.blockingStoreFiles' =>'10'})
Created table myFifthTable
Took 0.6341 seconds
=> Hbase::Table - myFifthTable
hbase:013:0> alter 'myFirstTable', (NAME =>'familyOne', VERSIONS => 3)
Updating all regions with the new schema...
1/1 regions updated.
Done.
Took 1.9480 seconds
hbase:014:0> alter 'mySecondTable', 'familyOne', (NAME =>'familyTwo', IN_MEMORY => true), (NAME =>'familyThree', VERSIONS => 5)
Updating all regions with the new schema...
1/1 regions updated.
Done.
Took 1.6894 seconds
hbase:015:0> alter 'myThirdTable', (NAME =>'familyOne', METHOD =>'delete')
Updating all regions with the new schema...
1/1 regions updated.
Done.
Took 1.6682 seconds
hbase:016:0> alter 'myThirdTable', 'delete' =>'familyOne'
Updating all regions with the new schema...
1/1 regions updated.
Done.
Took 1.6320 seconds
hbase:017:0> alter 'myFirstTable', MAX_FILESIZE =>'134217728'
Updating all regions with the new schema...
1/1 regions updated.
Done.
Took 1.7635 seconds
hbase:018:0> describe 'myFirstTable'
Table myFirstTable is ENABLED
myFirstTable, (TABLE_ATTRIBUTES => (MAX_FILESIZE => '134217728 B (128MB)', METADATA => {'hbase.store.file-tracker.impl' => 'DEFAULT'}))
COLUMN FAMILIES DESCRIPTION
(NAME => 'familyOne', INDEX_BLOCK_ENCODING => 'NONE', VERSIONS => '3', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER', MIN_VERSIONS => '0', REPLICATION_SCOPE
=> '0', BLOOMFILTER => 'ROW', IN_MEMORY => 'false', COMPRESSION => 'NONE', BLOCKCACHE => 'true', BLOCKSIZE => '65536 B (64KB)')
1 row(s)
Quota is disabled
Took 0.0353 seconds
```

Commands 20-38

```
hadoop@ip-172-31-46-74~
hadoop-0.0353 seconds
hbbase:019:0> disable 'mySecondTable'
hadoop-0.3515 seconds
hbbase:020:0> disable all <"regex">
hbbase:021:0> is disabled 'mySecondTable'
Traceback (most recent call last):
SyntaxError (hbbase:21: syntax error, unexpected tSTRING_BEG)
is disabled 'mySecondTable'

hbbase:022:0> is_enabled 'mySecondTable'
false
hadoop-0.0078 seconds
>> false
hbbase:023:0> drop 'mySecondTable'
hadoop-0.3508 seconds
hbbase:024:0> exists 'myFirstTable'
Table myFirstTable does exist
hadoop-0.0046 seconds
=> true
hbbase:025:0> list
TABLE
myFirstTable
myFirstTable
myFourthTable
myThirdTable
4 row(s)
hadoop-0.0135 seconds
=> ["myFirstTable", "myFirstTable", "myFourthTable", "myThirdTable"]
hbbase:026:0> list <table_name>
TABLE
0 row(s)
hadoop-0.0078 seconds
=> []
hbbase:027:0> put 'myFirstTable', '100', 'familyOne:price', '845'
hadoop-0.1302 seconds
hbbase:028:0> put 'myFirstTable', '100', 'familyOne:quantity', '250'
hadoop-0.0099 seconds
hbbase:029:0> put 'myFirstTable', '101', 'familyOne:price', '842'
hadoop-0.0109 seconds
hbbase:030:0> put 'myFirstTable', '101', 'familyOne:price', '835'
hadoop-0.0047 seconds
hbbase:031:0> put 'myFirstTable', '101', 'familyOne:quantity', '300'
hadoop-0.0071 seconds
hbbase:032:0> put 'myFirstTable', '100', 'familyOne:price', '855'
hadoop-0.0053 seconds
hbbase:033:0> count 'myFirstTable'
2 row(s)
hadoop-0.0326 seconds
=> 2
hbbase:034:0> count 'myFirstTable', INTERVAL => 100000
2 row(s)
hadoop-0.0053 seconds
=> 2
hbbase:035:0> count 'myFirstTable', CACHE => 1000
2 row(s)
hadoop-0.0057 seconds
=> 2
hbbase:036:0> count 'myFirstTable', INTERVAL => 10, CACHE => 1000
2 row(s)
hadoop-0.0061 seconds
=> 2
hbbase:037:0> delete 'myFirstTable', '100', 'familyOne:price', 1450245
hadoop-0.0148 seconds
hbbase:038:0> deleteall 'myFirstTable', '100'
```

Commands 39-50

```
Took 0.0148 seconds
hbase:038:0> deleteall 'myFirstTable', '100'
Took 0.0095 seconds
hbase:039:0> incr 'myFirstTable', '100', 'familyOne:price'
COUNTER VALUE = 1
Took 0.0311 seconds
hbase:040:0> incr 'myFirstTable', '100', 'familyOne:quantity', 10
COUNTER VALUE = 10
Took 0.0064 seconds
hbase:041:0> get 'myFirstTable', '100'
COLUMN                                CELL
familyOne:price                        timestamp=2024-12-06T06:19:40.202, value=\x00\x00\x00\x00\x00\x00\x01
familyOne:quantity                    timestamp=2024-12-06T06:19:44.722, value=\x00\x00\x00\x00\x00\x00\x0A
1 row(s)
Took 0.0232 seconds
hbase:042:0> get 'myFirstTable', '100', (TIMERANGE => [1400000, 1500000])
COLUMN                                CELL
0 row(s)
Took 0.0149 seconds
hbase:043:0> get 'myFirstTable', '100', (COLUMN => 'familyOne:price')
COLUMN                                CELL
familyOne:price                        timestamp=2024-12-06T06:19:40.202, value=\x00\x00\x00\x00\x00\x00\x01
1 row(s)
Took 0.0077 seconds
hbase:044:0> get 'myFirstTable', '101', (COLUMN => ['familyOne:price', 'familyOne:quantity'])
COLUMN                                CELL
familyOne:price                        timestamp=2024-12-06T06:18:53.907, value=$35
familyOne:quantity                    timestamp=2024-12-06T06:18:58.711, value=300
1 row(s)
Took 0.0076 seconds
hbase:045:0> get 'myFirstTable', '101', (COLUMN => 'familyOne:price', TIMESTAMP => 1450445)
COLUMN                                CELL
0 row(s)
Took 0.0067 seconds
hbase:046:0> get 'myFirstTable', '100', (COLUMN => 'familyOne:price', VERSIONS => 4)
COLUMN                                CELL
familyOne:price                        timestamp=2024-12-06T06:19:40.202, value=\x00\x00\x00\x00\x00\x00\x01
1 row(s)
Took 0.0066 seconds
hbase:047:0> scan 'myFirstTable', (COLUMNS => ['familyOne:price', 'familyOne:quantity'], LIMIT => 5, STARTROW => '100')
ROW                                  COLUMN+CELL
100                                  column=familyOne:price, timestamp=2024-12-06T06:19:40.202, value=\x00\x00\x00\x00\x00\x00\x01
100                                  column=familyOne:quantity, timestamp=2024-12-06T06:19:44.722, value=\x00\x00\x00\x00\x00\x00\x0A
101                                  column=familyOne:price, timestamp=2024-12-06T06:18:53.907, value=$35
101                                  column=familyOne:quantity, timestamp=2024-12-06T06:18:58.711, value=300
2 row(s)
Took 0.0120 seconds
hbase:048:0> scan 'myFirstTable', (COLUMNS => ['familyOne:price', 'familyOne:quantity'], LIMIT => 10, STARTROW => '100', STOPROW => '105')
ROW                                  COLUMN+CELL
100                                  column=familyOne:price, timestamp=2024-12-06T06:19:40.202, value=\x00\x00\x00\x00\x00\x00\x01
100                                  column=familyOne:quantity, timestamp=2024-12-06T06:19:44.722, value=\x00\x00\x00\x00\x00\x00\x0A
101                                  column=familyOne:price, timestamp=2024-12-06T06:18:53.907, value=$35
101                                  column=familyOne:quantity, timestamp=2024-12-06T06:18:58.711, value=300
2 row(s)
Took 0.0294 seconds
hbase:049:0> scan 'myFirstTable', (COLUMNS => 'familyOne:price', TIMERANGE => [1303668804, 1303668904])
ROW                                  COLUMN+CELL
0 row(s)
Took 0.0071 seconds
```

Temps to rise
Tomorrow



12:49 AM
12/6/2024

Creating & Populating Tables with HBase

Commands

```
hadoop@ip-172-31-46-74:~$ hbase:050:0> create 'customer', 'ID', 'Cust_Name', (NAME => 'Address', VERSIONS => 3), 'Demographics', (NAME => 'Payments', VERSIONS => 3)
Created table customer
Took 0.6346 seconds
hbase:051:0> put 'customer', '171', 'Cust_Name:FirstName', 'Madelyn'
Took 0.0278 seconds
hbase:052:0> put 'customer', '171', 'Cust_Name:LastName', 'Hensley'
Took 0.0082 seconds
hbase:053:0> put 'customer', '171', 'Address:StreetAddress', '10075 Thierer Plaza'
Took 0.0175 seconds
hbase:054:0> put 'customer', '171', 'Address:StreetAddress', '615 McCallie Ave'
Took 0.0042 seconds
hbase:055:0> put 'customer', '171', 'Address:City', 'New York'
Took 0.0044 seconds
hbase:056:0> put 'customer', '171', 'Address:State', 'New York'
Took 0.0043 seconds
hbase:057:0> put 'customer', '171', 'Address:State', 'Tennessee'
Took 0.0052 seconds
hbase:058:0> put 'customer', '171', 'Demographics:Gender', 'M'
Took 0.0182 seconds
hbase:059:0> put 'customer', '171', 'Payments:Internet', 'True'
Took 0.0157 seconds
hbase:060:0> put 'customer', '171', 'Payments:Internet', 'True'
Took 0.0052 seconds
hbase:061:0> put 'customer', '171', 'Payments:Mobile', 'False'
Took 0.0060 seconds
hbase:062:0> put 'customer', '171', 'Payments:Mobile', 'True'
Took 0.0063 seconds
hbase:063:0> put 'customer', '171', 'Payments:Mobile', 'False'
Took 0.0066 seconds
hbase:064:0> put 'customer', '172', 'Cust_Name:FirstName', 'Lony'
Took 0.0048 seconds
hbase:065:0> put 'customer', '172', 'Cust_Name:LastName', 'Foster'
Took 0.0165 seconds
hbase:066:0> put 'customer', '172', 'Address:State', 'Texas'
Took 0.0047 seconds
hbase:067:0> put 'customer', '172', 'Address:Zip', '13498'
Took 0.0061 seconds
hbase:068:0> put 'customer', '172', 'Demographics:BirthYear', '1981'
Took 0.0042 seconds
hbase:069:0> put 'customer', '172', 'Demographics:Gender', 'F'
Took 0.0046 seconds
hbase:070:0> put 'customer', '172', 'Payments:CreditCard', 'True'
Took 0.0048 seconds
hbase:071:0> put 'customer', '172', 'Payments:Mobile', 'False'
Took 0.0052 seconds
hbase:072:0> put 'customer', '172', 'Payments:Mobile', 'False'
Took 0.0075 seconds
hbase:073:0> put 'customer', '172', 'Payments:Mobile', 'False'
Took 0.0051 seconds
hbase:074:0> put 'customer', '171', 'Address:Zip', '61377'
Took 0.0053 seconds
hbase:075:0> put 'customer', '171', 'Address:Zip', '37415'
Took 0.0043 seconds
hbase:076:0> scan 'customer'
ROW                                COLUMN+CELL
171                                column=Address:City, timestamp=2024-12-06T06:21:21.110, value=New York
171                                column=Address:State, timestamp=2024-12-06T06:21:30.633, value=Tennessee
171                                column=Address:StreetAddress, timestamp=2024-12-06T06:21:16.464, value=615 McCallie Ave
171                                column=Address:Zip, timestamp=2024-12-06T06:22:59.431, value=37415
171                                column=Cust_Name:FirstName, timestamp=2024-12-06T06:21:01.822, value=Madelyn
171                                column=Cust_Name:LastName, timestamp=2024-12-06T06:21:06.373, value=Hensley
```

Output

```
hbase:076:0> scan 'customer'
ROW                                COLUMN+CELL
171                                column=Address:City, timestamp=2024-12-06T06:21:21.110, value=New York
171                                column=Address:State, timestamp=2024-12-06T06:21:30.633, value=Tennessee
171                                column=Address:StreetAddress, timestamp=2024-12-06T06:21:16.464, value=615 McCallie Ave
171                                column=Address:Zip, timestamp=2024-12-06T06:22:59.431, value=37415
171                                column=Cust_Name:FirstName, timestamp=2024-12-06T06:21:01.822, value=Madelyn
171                                column=Cust_Name:LastName, timestamp=2024-12-06T06:21:06.373, value=Hensley
171                                column=Demographics:Gender, timestamp=2024-12-06T06:21:35.613, value=M
171                                column=Payments:Internet, timestamp=2024-12-06T06:21:45.935, value=True
171                                column=Payments:Mobile, timestamp=2024-12-06T06:22:01.074, value=False
172                                column=Address:State, timestamp=2024-12-06T06:22:16.832, value=Texas
172                                column=Address:Zip, timestamp=2024-12-06T06:22:22.433, value=13498
172                                column=Cust_Name:FirstName, timestamp=2024-12-06T06:22:06.416, value=Lony
172                                column=Cust_Name:LastName, timestamp=2024-12-06T06:22:11.549, value=Foster
172                                column=Demographics:BirthYear, timestamp=2024-12-06T06:22:26.532, value=1981
172                                column=Demographics:Gender, timestamp=2024-12-06T06:22:30.742, value=F
172                                column=Payments:CreditCard, timestamp=2024-12-06T06:22:35.863, value=True
172                                column=Payments:Mobile, timestamp=2024-12-06T06:22:49.830, value=False
2 row(s)
Took 0.0417 seconds
hbase:077:0>
```