

BDI Experiment 5

DATE:

Kaheena Shah

60004210243

C'32

Aim : Perform HBase Shell Scripting

Theory :

HBase is a non relational database, so it does not support SQL.

Instead, it uses its query engine to perform operations like fetch, update, delete.

Before applying any operations, we need to first enter code inside the cluster to execute the shell commands.

↳ hbase shell

Commands

(1) create 'table_name', 'col_f1', 'col_f2', ...

(2) list : to list all tables within shell

(3) put : add/update only one column of one row key
put 'table_name', 'row_key', 'col_fam: col', 'val'

(4) scan : applies to all row key & in turn all columns within specified table.

scan 'table_name'

(5) get : fetch data associated with particular row key
get 'table_name', 'row_key'

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(6) limit : to get 1st 'n' rows, applicable only for scan
scan 'table_name', { LIMIT \Rightarrow n }

(7) delete table
disable 'table_name'
drop 'table_name'

Conclusion : Thus, we performed hbase shell scripting
commands.

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sandbox login: root
root@sandbox.hortomworks.com's password:
Last login: Wed Feb 14 03:51:02 2024 from 172.17.0.2
[root@sandbox ~]# hbase shell
HBase Shell; enter 'help(RETURN)' for list of supported commands.
Type 'exit(RETURN)' to leave the HBase Shell
Version 1.1.2.2.5.0-0-1245, r535388ab6749cbb6fdc9fe448b89aa82495fb3f, Fri Aug 26 01:32:27 UTC 2016

hbase(main):001:0> Syntax:status
java.lang.reflect.MethodError: undefined method 'Syntax' for #Object:0x23ca36d>

hbase(main):002:0> status
1 active master, 0 backup masters, 1 servers, 0 dead, 7.0000 average load

hbase(main):003:0> create 'product','shoe','tshirt'
0 row(s) in 2.4320 seconds

-> Hbase::Table <- product
hbase(main):004:0> list
TABLE
ATLAS_ENTITY_AUDIT_EVENTS
atlas.titan
!employee
product
4 row(s) in 0.0320 seconds

-> ["ATLAS_ENTITY_AUDIT_EVENTS", "atlas.titan", "employee", "product"]
hbase(main):005:0> put 'product','1','shoe:title','Adidas Shoe'
0 row(s) in 0.2460 seconds

hbase(main):006:0> put 'product','2','shoe:title','Nike Shoe'
0 row(s) in 0.0480 seconds

hbase(main):007:0>
hbase(main):008:0> put 'product','3','shoe:title','Puma Shoe'
0 row(s) in 0.0040 seconds

hbase(main):009:0>
hbase(main):010:0> put 'product','4','shoe:title','Reebok Shoe'
0 row(s) in 0.0030 seconds

hbase(main):011:0>
hbase(main):012:0> put 'product','5','shoe:title','Under Armour Shoe'
0 row(s) in 0.0070 seconds

hbase(main):013:0>
hbase(main):014:0> put 'product','6','shoe:title','New Balance Shoe'
0 row(s) in 0.0100 seconds

hbase(main):015:0>
hbase(main):016:0> put 'product','7','shoe:title','Asics Shoe'
0 row(s) in 0.0030 seconds

hbase(main):017:0>
hbase(main):018:0> put 'product','8','shoe:title','Skechers Shoe'
0 row(s) in 0.0040 seconds

hbase(main):019:0>
hbase(main):020:0> put 'product','9','shoe:title','Converse Shoe'
0 row(s) in 0.0050 seconds

hbase(main):021:0>
hbase(main):022:0> put 'product','10','shoe:title','Vans Shoe'
0 row(s) in 0.0050 seconds

hbase(main):023:0>
hbase(main):024:0> put 'product','11','shoe:title','Fila Shoe'
0 row(s) in 0.0100 seconds

hbase(main):025:0> get 'product','1'
COLUMN                                CELL
shoe:title                             timestamp=1707886916786, value=Adidas Shoe
1 row(s) in 0.0660 seconds

hbase(main):026:0> put 'product','1','shoe:color','white'
0 row(s) in 0.1100 seconds

hbase(main):027:0> get 'product','1'
COLUMN                                CELL
shoe:color                             timestamp=1707887317364, value=white
shoe:title                             timestamp=1707886916786, value=Adidas Shoe
2 row(s) in 0.0120 seconds

hbase(main):028:0> scan 'product'
ROW                                    COLUMN+CELL
1                                       column=shoe:color, timestamp=1707887317364, value=white
1                                       column=shoe:title, timestamp=1707886916786, value=Adidas Shoe
10                                      column=shoe:title, timestamp=1707887227031, value=Vans Shoe
11                                      column=shoe:title, timestamp=1707887245675, value=Fila Shoe
2                                       column=shoe:title, timestamp=1707887226775, value=Nike Shoe
3                                       column=shoe:title, timestamp=1707887226821, value=Puma Shoe
4                                       column=shoe:title, timestamp=1707887226861, value=Reebok Shoe
5                                       column=shoe:title, timestamp=1707887226882, value=Under Armour Shoe
6                                       column=shoe:title, timestamp=1707887226916, value=New Balance Shoe
7                                       column=shoe:title, timestamp=1707887226939, value=Asics Shoe
8                                       column=shoe:title, timestamp=1707887226964, value=Skechers Shoe
9                                       column=shoe:title, timestamp=1707887226990, value=Converse Shoe
11 row(s) in 0.0410 seconds

hbase(main):029:0> get 'product','1'
COLUMN                                CELL
shoe:color                             timestamp=1707887317364, value=white
shoe:title                             timestamp=1707886916786, value=Adidas Shoe
2 row(s) in 0.0280 seconds

hbase(main):030:0> scan 'product',{LIMIT=>1}
ROW                                    COLUMN+CELL
1                                       column=shoe:color, timestamp=1707887317364, value=white
1                                       column=shoe:title, timestamp=1707886916786, value=Adidas Shoe
1 row(s) in 0.0510 seconds

hbase(main):031:0> scan 'product',{LIMIT=>6}
ROW                                    COLUMN+CELL
1                                       column=shoe:color, timestamp=1707887317364, value=white
1                                       column=shoe:title, timestamp=1707886916786, value=Adidas Shoe
10                                      column=shoe:title, timestamp=1707887227031, value=Vans Shoe
11                                      column=shoe:title, timestamp=1707887245675, value=Fila Shoe
2                                       column=shoe:title, timestamp=1707887226775, value=Nike Shoe
3                                       column=shoe:title, timestamp=1707887226821, value=Puma Shoe
4                                       column=shoe:title, timestamp=1707887226861, value=Reebok Shoe
6 row(s) in 0.0130 seconds

hbase(main):032:0> disable 'product'
0 row(s) in 2.5990 seconds

hbase(main):033:0> drop 'product'
0 row(s) in 1.2990 seconds

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