Name: Prerna Sunil Jadhav Sap 10: 60004220127 Batch: C22 Course: Big Data Infrastructure laboratory. course code: DJ19CEELGOII EXPERIMENT 05 AIM: To implement commands in HBase Shell scripting. THEORY: -> HBase is a data model that is similar to Google's big table. -> It is an open source, distributed database developed by Apache software foundation written in Java. -> HBase is an essential part of our Hadoop Ecosystem. -> HBase runs on top of HDFS (Hadoop Distributed File system). -> It can store massive amounts of data from tetrabytes to petabytes. -) It is column oriented a horizontally scalable -> reatures: 1) It provides easy to use sava API for client d'accessible de bour son 2) HBase provides consistent read and writer 3) It doesn't enforce relationship within

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your data.

the above command

	COMMANDS: (hbase shell)
	500 10: 5000 422 012 3
1)	CREATE
	The 'create' command is used to create
	table within HBase Shell.
	=> create 'product', 'shoe', 'tshirt'
	EXPERIMENT OF
2)	L187
Nact.	It is used to list all tables
	=) list
3)	PUT THEORY:
6	Add or update only one column
	=) put 'product', 'l', 'shoe: size', '28'
5-4-0	at is an open source, distributed dated
4)	SCAN LOS ENGLOSES SOME SOME SOME SOME SOME SOME SOME
	It applies to all nowkey & in turn all
	column within specified table
	Il applies to all nowkey & in turn all column within specified table  => scan 'product' -> scan 'product', {limit=>1, }
	13 HBase wine on top of HDES Hallone
5)	GET Constant of the body of air
791	It is used to fetch data associated with
N 832 K	=) get 'product', '1'
	> features:
6)	DECETE TABLES OF PLAS REDIVORS 410
	first we need to disable table then drop it.
ista	=> disable 'product' anos asbirona sanger a
	=> drop 'product's

CONCLUSION: Hence we for EDUCATIONAL USE al



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Academic Year: 2022-2023

Name:	Prerna Sunil Jadhav
Sap Id:	60004220127
Class:	T. Y. B. Tech (Computer Engineering)
Course:	Big Data Infrastructure Laboratory
Course Code:	DJ19CEEL6011
Experiment No.:	05

**AIM:** Execute HBase Commands.

#### **OUTPUT:**

```
sandbox login: root
root@sandbox.hortonworks.com's password:
Last login: Wed Feb 14 03:11:34 2024 from 172.17.0.2
[root@sandbox ~]# hbase shell
HBase Shell; enter 'help<RETURN>' for list of supported commands.
Type "exitxRETURN>" to leave the HBase Shell
Version 1.1.2.2.5.0.0-1245, r53538b8ab6749cbb6fdc0fe448b89aa82495fb3f, Fri Aug 26 01:32:27 UTC 2016
hbase(main):001:0> create 'product','shoe','tshirt'
0 row(s) in 3.5020 seconds

=> Hbase::Table - product
hbase(main):002:0> list
TABLE
ATLAS_ENTITY_AUDIT_EVENTS
atlas_titan
iemployee
product
4 row(s) in 0.0570 seconds

=> ["ATLAS_ENTITY_AUDIT_EVENTS", "atlas_titan", "iemployee", "product"]
```



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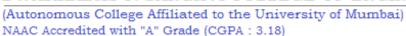
Academic Year: 2022-2023

```
nbase(main):003:0> put 'product', '1', 'shoe:title', 'Adidas Shoe'
hbase(main):004:0> put 'product', '1', 'shoe:description', 'Running Shoes For Men'
0 row(s) in 0.1120 seconds
hbase(main):005:0> put 'product', '1', 'shoe:color', 'black'
0 row(s) in 0.0830 seconds
hbase(main):006:0> put 'product', '1', 'shoe:price', '40'
0 row(s) in 0.0270 seconds
hbase(main):007:0> put 'product', '1', 'shoe:currency', 'USD'
0 row(s) in 0.0220 seconds
hbase(main):008:0> put 'product', '1', 'shoe:size', '28'
0 row(s) in 0.0220 seconds
hbase(main):009:0> put 'product', '2', 'tshirt:title', 'Puma Tshirt'
0 row(s) in 0.0290 seconds
hbase(main):010:0> put 'product', '2', 'tshirt:description', 'Graphic Print Men Round Neck Pink T-Shir
0 row(s) in 0.0190 seconds
hbase(main):011:0> put 'product', '2', 'tshirt:color', 'pink'
0 row(s) in 0.0200 seconds
hbase(main):012:0> put 'product', '2', 'tshirt:price', '20'
0 row(s) in 0.0210 seconds
hbase(main):013:0> put 'product', '2', 'tshirt:currency', 'USD'
0 row(s) in 0.0220 seconds
hbase(main):014:0> put 'product', '2', 'tshirt:size', 'M'
0 row(s) in 0.0250 seconds
```

# SVKIM

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```
hbase(main):015:0> get 'product','1'
                                  timestamp=1708484818137, value=black
shoe:color
                                  timestamp=1708484849126, value=USD timestamp=1708484809517, value=Running Shoes For Men
shoe:description
shoe:price
                                  timestamp=1708484827894, value=40
                                  timestamp=1708484861763, value=28 timestamp=1708484801101, value=Adidas Shoe
shoe:size
row(s) in 0.1350 seconds
COLUMN
                                  timestamp=1708484896191, value=pink
tshirt:color
                                  timestamp=1708484929185, value=USD
tshirt:description
                                  timestamp=1708484886158, value=Graphic Print Men Round Neck Pink T-Shirt
                                  timestamp=1708484906505, value=20
timestamp=1708484944594, value=M
tshirt:price
tshirt:title
                                  timestamp=1708484874200, value=Puma Tshirt
row(s) in 0.0180 seconds
orow(s) in 0.0250 seconds
shoe:color
                                  timestamp=1708485037341, value=white
                                 timestamp=1708483484849126, value=USD
timestamp=170848484809517, value=Running Shoes For Men
timestamp=1708484827894, value=40
shoe:currency
shoe:description
shoe:price
                                  timestamp=1708484861763, value=28
timestamp=1708484801101, value=Adidas Shoe
shoe:size
 row(s) in 0.0310 seconds
```

# SVKIM

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hbase(main):019:0> scan 'p	~oduct'
ROW	COLUMN+CELL
1	column=shoe:color, timestamp=1708485037341, value=white
1	column=shoe:currency, timestamp=1708484849126, value=USD
1	column=shoe:description, timestamp=1708484809517, value=Running Shoes For
	n
1	column=shoe:price, timestamp=1708484827894, value=40
1	column=shoe:size, timestamp=1708484861763, value=28
1	column=shoe:title, timestamp=1708484801101, value=Adidas Shoe
2	column=tshirt:color, timestamp=1708484896191, value=pink
2	column=tshirt:currency, timestamp=1708484929185, value=USD
2	column=tshirt:description, timestamp=1708484886158, value=Graphic Print Me
	Round Neck Pink T-Shirt
2	column=tshirt:price, timestamp=1708484906505, value=20
2	column=tshirt:size, timestamp=1708484944594, value=M
2	column=tshirt:title, timestamp=1708484874200, value=Puma Tshirt
2 row(s) in 0.0740 seconds	column-control elected, elimeseump-1/004040/4200, value-l'ama l'ontro
2 : 011(3) 211 0107 10 32201143	
hbase(main):020:0> scan 'p	enduct'.{ IMIT => 1}
ROW	COLUMN+CELL
1	column=shoe:color, timestamp=1708485037341, value=white
1	column=shoe:currency, timestamp=1708484849126, value=USD
1	column=shoe:description, timestamp=1708484809517, value=Running Shoes For M
-	en
1	column=shoe:price, timestamp=1708484827894, value=40
1	column=shoe:size, timestamp=1708484861763, value=28
1	column=shoe:title, timestamp=1708484801101, value=Adidas Shoe
1 row(s) in 0.0430 seconds	column-shoe.citle, timestamp-1700-04001101, value-Adidas shoe
1 10w(3) 111 0.0450 3econds	
hbase(main):021:0> disable	'product'
0 row(s) in 2.4440 seconds	pi oddee
0 10W(3) 111 2:4440 3ccollas	
hbase(main):022:0> drop 'p	enduct'
0 row(s) in 1.3160 seconds	oudet
0 10M(3) 111 1:3100 Seconds	
hbase(main):023:0>	
11003C(110211).023.07	