# Assignment 4

## • hive commands

hduser@ubuntu:~\$ start-all.sh hduser@ubuntu:~\$ hive

## • Creation of table:

hive > create database pooja;

OK

Time taken: 1.955 seconds hive (default)> use pooja;

OK

Time taken: 0.048 seconds

hive > create table pooja(firstname string,lastname string,employeeid int);

OK

Time taken: 0.873 seconds

hive> show tables;

OK

our first table

Time taken: 0.114 seconds, Fetched: 1 row(s)

• Set db properties use alter command

hive> alter database pooja set dbproperties

> ('creator'=Pooja Kanwate',

> 'created for'='Learning Hive DDL');

OK

Time taken: 0.315 seconds

hive> describe database extended pooja;

OK

pooja hdfs://localhost:9000/user/hive/warehouse/minal.db hduser USER {creator=Pooja

Kanwate, created\_for=learning hive DDL} Time taken: 0.024 seconds, Fetched: 1 row(s)

• Dropping of table:

hive> drop database pooja cascade;

OK

Time taken: 2.884 seconds

#### • hbase Commands:

hduser@ubuntu:/usr/local/hbase\$ cd bin hduser@ubuntu:/usr/local/hbase/bin\$ ls

draining\_servers.rb hbase-daemons.sh rolling-restart.sh

get-active-master.rb hbase-jruby shutdown\_regionserver.rb

graceful\_stop.sh hirb.rb start-hbase.cmd hbase local-master-backup.sh start-hbase.sh

hbase-cleanup.sh local-regionservers.sh stop-hbase.cmd

hbase.cmd master-backup.sh stop-hbase.sh

hbase-common.sh region\_mover.rb test

hbase-config.cmd regionservers.sh thread-pool.rb hbase-config.sh region\_status.rb zookeepers.sh

hbase-daemon.sh replication

hduser@ubuntu:/usr/local/hbase/bin\$ cd

hduser@ubuntu:~\$ jps

4321 RunJar

4020 NodeManager

6260 Jps

3894 ResourceManager

3496 DataNode

3374 NameNode

3663 SecondaryNameNode

hduser@ubuntu:~\$ cd /usr/local/hbase/bin

hduser@ubuntu:/usr/local/hbase/bin\$ ./start-hbase.sh

hduser@localhost's password:

localhost: running zookeeper, logging to /usr/local/hbase/bin/../logs/hbase-hduser-zookeeper-ubuntu.out

running master, logging to /usr/local/hbase/bin/../logs/hbase-hduser-master-ubuntu.out : running regionserver, logging to /usr/local/hbase/bin/../logs/hbase-hduser-regionserver-ubuntu.out

hduser@ubuntu:/usr/local/hbase/bin\$ jps

6576 HMaster

4321 RunJar

7028 Jps

4020 NodeManager

3894 ResourceManager

3496 DataNode

6522 HQuorumPeer

3374 NameNode

6654 HRegionServer

3663 SecondaryNameNode

hduser@ubuntu:/usr/local/hbase/bin\$ ./hbase shell

2020-01-22 07:13:59,224 WARN [main] util.NativeCodeLoader: Unable to load native-

hadoop library for your platform... using builtin-java classes where applicable

SLF4J: Class path contains multiple SLF4J bindings.

SLF4J: Found binding in [jar:file:/usr/local/hbase/lib/slf4j-log4j12-

1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: Found binding in [jar:file:/usr/local/hadoop/share/hadoop/common/lib/slf4j-log4j12-

1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: See http://www.slf4j.org/codes.html#multiple bindings for an explanation.

SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]

**HBase Shell** 

Use "help" to get list of supported commands.

Use "exit" to quit this interactive shell.

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## • creation of table in hbase:

hbase(main):002:0> create 'flight', 'finfo', 'fsch' 0 row(s) in 4.8520 seconds

=> Hbase::Table - flight hbase(main):003:0> list

# TABLE CustomerInformation flight 2 rays(s) in 0.2300 sees

2 row(s) in 0.2300 seconds

• Insertion Of data in table:

=> ["CustomerInformation", "flight"] hbase(main):004:0> put 'flight',1,'finfo:source','pune' 0 row(s) in 0.6580 seconds

hbase(main):005:0> put 'flight',2,'finfo:source','mumbai1' 0 row(s) in 0.0360 seconds

hbase(main):006:0> put 'flight',1,'fsch:at','11.11a.m.' 0 row(s) in 0.0460 seconds

hbase(main):007:0> put 'flight',1,'fsch:dt','12.50p.m.' 0 row(s) in 0.0720 seconds

hbase(main):008:0> put 'flight',1,'fsch:delay','4' 0 row(s) in 0.0530 seconds

hbase(main):009:0> put 'flight',2,'finfo:source','pune' 0 row(s) in 0.0250 seconds

hbase(main):010:0> put 'flight',2,'finfo:dest','kolhapur' 0 row(s) in 0.0320 seconds

hbase(main):011:0> put 'flight',2,'fsch:at','11.10a.m.' 0 row(s) in 0.0260 seconds

hbase(main):012:0> put 'flight',2,'fsch:dt','12.10p.m.' 0 row(s) in 0.0610 seconds

hbase(main):013:0> put 'flight',2,'fsch:delay','4' 0 row(s) in 0.0310 seconds

hbase(main):014:0> put 'flight',3,'finfo:source','pune' 0 row(s) in 0.0290 seconds

hbase(main):015:0> put 'flight',3,'finfo:dest','jalgaon' 0 row(s) in 0.0340 seconds

hbase(main):016:0> put 'flight',3,'fsch:at','10.10a.m.' 0 row(s) in 0.0320 seconds

hbase(main):017:0> put 'flight',3,'fsch:dt','10.10p.m.' 0 row(s) in 0.0270 seconds

hbase(main):018:0> put 'flight',3,'fsch:delay','10'

0 row(s) in 0.0530 seconds

hbase(main):019:0> put 'flight',4,'finfo:source','pune' 0 row(s) in 0.0580 seconds

hbase(main):020:0> put 'flight',4,'finfo:dest','sangli' 0 row(s) in 0.0330 seconds

hbase(main):021:0> put 'flight',4,'fsch:at','1.10a.m.' 0 row(s) in 0.0280 seconds

hbase(main):022:0> put 'flight',4,'fsch:dt','3.10a.m.' 0 row(s) in 0.0360 seconds

hbase(main):023:0> put 'flight',4,'fsch:delay','1' 0 row(s) in 0.0340 seconds

hbase(main):024:0> put 'flight',5,'finfo:source','pune' 0 row(s) in 0.1080 seconds

hbase(main):025:0> put 'flight',5,'finfo:dest','aurangabad' 0 row(s) in 0.0310 seconds

hbase(main):026:0> put 'flight',5,'fsch:at','2.10a.m.' 0 row(s) in 0.0350 seconds

hbase(main):027:0> put 'flight',5,'fsch:dt','3.01a.m.' 0 row(s) in 0.0240 seconds

hbase(main):028:0> put 'flight',5,'fsch:delay','6' 0 row(s) in 0.0370 seconds

hbase(main):029:0> put 'flight',6,'finfo:source','mumbai' 0 row(s) in 0.0290 seconds

hbase(main):030:0> put 'flight',6,'finfo:dest','bengloar' 0 row(s) in 0.0400 seconds

hbase(main):031:0> put 'flight',6,'fsch:at','2.7a.m.' 0 row(s) in 0.0310 seconds

hbase(main):032:0> put 'flight',6,'fsch:dt','5.01a.m.' 0 row(s) in 0.0350 seconds

hbase(main):033:0> put 'flight',6,'fsch:delay','9' 0 row(s) in 0.0250 seconds

hbase(main):034:0> put 'flight',7,'finfo:source','kolhapur' 0 row(s) in 0.0310 seconds

hbase(main):035:0> put 'flight',7,'finfo:dest','bengloar' 0 row(s) in 0.0280 seconds

hbase(main):036:0> put 'flight',7,'fsch:at','8.7a.m.' 0 row(s) in 0.0350 seconds

hbase(main):037:0> put 'flight',7,'fsch:dt','12.01p.m.' 0 row(s) in 0.0500 seconds

hbase(main):038:0> put 'flight',7,'fsch:delay','3' 0 row(s) in 0.0370 seconds

## Display of data:

hbase(main):039:0> scan 'flight'

```
ROW
                COLUMN+CELL
1
             column=finfo:source, timestamp=1579706455715, value=pune
             column=fsch:at, timestamp=1579706722547, value=11.11a.m.
1
             column=fsch:delay, timestamp=1579706848134, value=4
1
             column=fsch:dt, timestamp=1579706785170, value=12.50p.m.
1
2
             column=finfo:dest, timestamp=1579706896798, value=kolhapur
2
             column=finfo:source, timestamp=1579706867351, value=pune
2
             column=fsch:at, timestamp=1579706914569, value=11.10a.m.
2
             column=fsch:delay, timestamp=1579706952029, value=4
2
             column=fsch:dt, timestamp=1579706928539, value=12.10p.m.
3
             column=finfo:dest, timestamp=1579706983667, value=jalgaon
3
             column=finfo:source, timestamp=1579706967913, value=pune
3
             column=fsch:at, timestamp=1579706994825, value=10.10a.m.
3
             column=fsch:delay, timestamp=1579707025823, value=10
3
             column=fsch:dt, timestamp=1579707013992, value=10.10p.m.
4
             column=finfo:dest, timestamp=1579707054479, value=sangli
             column=finfo:source, timestamp=1579707034036, value=pune
4
             column=fsch:at, timestamp=1579707067331, value=1.10a.m.
4
4
             column=fsch:delay, timestamp=1579707089685, value=1
             column=fsch:dt, timestamp=1579707079962, value=3.10a.m.
4
5
             column=finfo:dest, timestamp=1579707131123, value=aurangab
5
             column=finfo:source, timestamp=1579707108218, value=pune
5
             column=fsch:at, timestamp=1579707147134, value=2.10a.m.
5
             column=fsch:delay, timestamp=1579707191533, value=6
5
             column=fsch:dt, timestamp=1579707168592, value=3.01a.m.
6
             column=finfo:dest, timestamp=1579707233228, value=bengloar
             column=finfo:source, timestamp=1579707213890, value=mumbai
6
6
             column=fsch:at, timestamp=1579707247230, value=2.7a.m.
             column=fsch:delay, timestamp=1579707284486, value=9
6
             column=fsch:dt, timestamp=1579707261426, value=5.01a.m.
6
             column=finfo:dest, timestamp=1579707315336, value=bengloar
7
7
             column=finfo:source, timestamp=1579707306909, value=kolhap
            ur
7
             column=fsch:at, timestamp=1579707324609, value=8.7a.m.
7
             column=fsch:delay, timestamp=1579707379868, value=3
7
             column=fsch:dt, timestamp=1579707353927, value=12.01p.m.
```

## 7 row(s) in 1.4100 seconds

hbase(main):040:0> alter 'flight',NAME=>'revenue' Updating all regions with the new schema... 0/1 regions updated. 0/1 regions updated. 1/1 regions updated. Done. 0 row(s) in 5.4780 seconds

# hbase(main):041:0> scan 'flight'

```
ROW
                COLUMN+CELL
1
             column=finfo:source, timestamp=1579706455715, value=pune
             column=fsch:at, timestamp=1579706722547, value=11.11a.m.
1
             column=fsch:delay, timestamp=1579706848134, value=4
1
             column=fsch:dt, timestamp=1579706785170, value=12.50p.m.
1
2
             column=finfo:dest, timestamp=1579706896798, value=kolhapur
2
             column=finfo:source, timestamp=1579706867351, value=pune
2
             column=fsch:at, timestamp=1579706914569, value=11.10a.m.
2
             column=fsch:delay, timestamp=1579706952029, value=4
2
             column=fsch:dt, timestamp=1579706928539, value=12.10p.m.
3
             column=finfo:dest, timestamp=1579706983667, value=jalgaon
3
             column=finfo:source, timestamp=1579706967913, value=pune
3
             column=fsch:at, timestamp=1579706994825, value=10.10a.m.
3
             column=fsch:delay, timestamp=1579707025823, value=10
3
             column=fsch:dt, timestamp=1579707013992, value=10.10p.m.
4
             column=finfo:dest, timestamp=1579707054479, value=sangli
4
             column=finfo:source, timestamp=1579707034036, value=pune
4
             column=fsch:at, timestamp=1579707067331, value=1.10a.m.
4
             column=fsch:delay, timestamp=1579707089685, value=1
             column=fsch:dt, timestamp=1579707079962, value=3.10a.m.
4
5
             column=finfo:dest, timestamp=1579707131123, value=aurangab
            ad
5
             column=finfo:source, timestamp=1579707108218, value=pune
5
             column=fsch:at, timestamp=1579707147134, value=2.10a.m.
5
             column=fsch:delay, timestamp=1579707191533, value=6
5
             column=fsch:dt, timestamp=1579707168592, value=3.01a.m.
6
             column=finfo:dest, timestamp=1579707233228, value=bengloar
6
             column=finfo:source, timestamp=1579707213890, value=mumbai
             column=fsch:at, timestamp=1579707247230, value=2.7a.m.
6
             column=fsch:delay, timestamp=1579707284486, value=9
6
             column=fsch:dt, timestamp=1579707261426, value=5.01a.m.
6
7
             column=finfo:dest, timestamp=1579707315336, value=bengloar
7
             column=finfo:source, timestamp=1579707306909, value=kolhap
7
             column=fsch:at, timestamp=1579707324609, value=8.7a.m.
7
             column=fsch:delay, timestamp=1579707379868, value=3
7
             column=fsch:dt, timestamp=1579707353927, value=12.01p.m.
7 row(s) in 0.9270 seconds
```

=> Hbase::Table - tb1

hbase(main):045:0> drop 'tb1'

```
hbase(main):043:0> scan 'flight'
ROW
                COLUMN+CELL
             column=finfo:source, timestamp=1579706455715, value=pune
1
1
             column=fsch:at, timestamp=1579706722547, value=11.11a.m.
             column=fsch:delay, timestamp=1579706848134, value=4
1
             column=fsch:dt, timestamp=1579706785170, value=12.50p.m.
1
2
             column=finfo:dest, timestamp=1579706896798, value=kolhapur
2
             column=finfo:source, timestamp=1579706867351, value=pune
2
             column=fsch:at, timestamp=1579706914569, value=11.10a.m.
2
             column=fsch:delay, timestamp=1579706952029, value=4
2
             column=fsch:dt, timestamp=1579706928539, value=12.10p.m.
3
             column=finfo:dest, timestamp=1579706983667, value=jalgaon
3
             column=finfo:source, timestamp=1579706967913, value=pune
3
             column=fsch:at, timestamp=1579706994825, value=10.10a.m.
3
             column=fsch:delay, timestamp=1579707025823, value=10
3
             column=fsch:dt, timestamp=1579707013992, value=10.10p.m.
4
             column=finfo:dest, timestamp=1579707054479, value=sangli
4
             column=finfo:source, timestamp=1579707034036, value=pune
             column=fsch:at, timestamp=1579707067331, value=1.10a.m.
4
4
             column=fsch:delay, timestamp=1579707089685, value=1
4
             column=fsch:dt, timestamp=1579707079962, value=3.10a.m.
4
             column=revenue:rs, timestamp=1579708017867, value=5000
5
             column=finfo:dest, timestamp=1579707131123, value=aurangab
5
             column=finfo:source, timestamp=1579707108218, value=pune
5
             column=fsch:at, timestamp=1579707147134, value=2.10a.m.
5
             column=fsch:delay, timestamp=1579707191533, value=6
5
             column=fsch:dt, timestamp=1579707168592, value=3.01a.m.
6
             column=finfo:dest, timestamp=1579707233228, value=bengloar
6
             column=finfo:source, timestamp=1579707213890, value=mumbai
             column=fsch:at, timestamp=1579707247230, value=2.7a.m.
6
             column=fsch:delay, timestamp=1579707284486, value=9
6
6
             column=fsch:dt, timestamp=1579707261426, value=5.01a.m.
7
             column=finfo:dest, timestamp=1579707315336, value=bengloar
7
             column=finfo:source, timestamp=1579707306909, value=kolhap
7
             column=fsch:at, timestamp=1579707324609, value=8.7a.m.
7
             column=fsch:delay, timestamp=1579707379868, value=3
             column=fsch:dt, timestamp=1579707353927, value=12.01p.m.
7 \text{ row(s)} in 0.7760 \text{ seconds}
hbase(main):044:0> create 'tb1','cf'
0 row(s) in 2.5490 seconds
```

ERROR: Table tb1 is enabled. Disable it first.

Here is some help for this command:

• Drop of the table in hbase:

```
Drop the named table. Table must first be disabled:
 hbase> drop 't1'
 hbase> drop 'ns1:t1'
hbase(main):046:0> list
TABLE
CustomerInformation
flight
tb1
3 row(s) in 0.0690 seconds
=> ["CustomerInformation", "flight", "tb1"]
hbase(main):047:0> disable 'tb1'
0 row(s) in 2.5040 seconds
hbase(main):048:0> drop 'tb1'
0 row(s) in 1.5540 seconds
hbase(main):049:0> list
TABLE
CustomerInformation
flight
2 row(s) in 0.0330 seconds
=> ["CustomerInformation", "flight"]
hbase(main):050:0> get 'flight',3
COLUMN
                   CELL
finfo:dest
                timestamp=1579706983667, value=jalgaon
finfo:source
                 timestamp=1579706967913, value=pune
fsch:at
               timestamp=1579706994825, value=10.10a.m.
                timestamp=1579707025823, value=10
fsch:delay
               timestamp=1579707013992, value=10.10p.m.
fsch:dt
1 row(s) in 0.3750 seconds
hbase(main):051:0> get 'flight','4',COLUMN=>'finfo:source'
COLUMN
                   CELL
finfo:source
                 timestamp=1579707034036, value=pune
1 row(s) in 0.1490 seconds
hbase(main):052:0> get 'flight','3',COLUMN=>['finfo:source','finfo:dest']
COLUMN
                   CELL
finfo:dest
                timestamp=1579706983667, value=jalgaon
                 timestamp=1579706967913, value=pune
finfo:source
1 \text{ row(s)} in 0.0690 \text{ seconds}
```

hbase(main):053:0> get 'flight',5

COLUMN CELL

finfo:dest timestamp=1579707131123, value=aurangabad finfo:source timestamp=1579707108218, value=pune timestamp=1579707147134, value=2.10a.m. fsch:delay timestamp=1579707191533, value=6 timestamp=1579707168592, value=3.01a.m.

1 row(s) in 0.1250 seconds

hbase(main):054:0> get 'flight','5',COLUMN=>['finfo:source','finfo:dest']

COLUMN CELL

finfo:dest timestamp=1579707131123, value=aurangabad finfo:source timestamp=1579707108218, value=pune

1 row(s) in 0.1000 seconds

hbase(main):055:0> get 'flight','5',COLUMN=>'finfo:source'

COLUMN CELL

finfo:source timestamp=1579707108218, value=pune

1 row(s) in 0.0950 seconds

hbase(main):056:0> scan 'flight',COLUMNS=>'finfo:source'

ROW	COLUMN+CELL
1	column=finfo:source, timestamp=1579706455715, value=pune
2	column=finfo:source, timestamp=1579706867351, value=pune
3	column=finfo:source, timestamp=1579706967913, value=pune
4	column=finfo:source, timestamp=1579707034036, value=pune
5	column=finfo:source, timestamp=1579707108218, value=pune
6	column=finfo:source, timestamp=1579707213890, value=mumbai
7	column=finfo:source, timestamp=1579707306909, value=kolhap

ur

7 row(s) in 0.2920 seconds

hbase(main):057:0> create 'emphive', 'cf'

0 row(s) in 2.4830 seconds

=> Hbase::Table – emphive

## • customer table in hbase

hbase(main):001:0> create 'CustomerInformation', 'ContactInfo', 'CustomerName' 0 row(s) in 5.5920 seconds

=> Hbase::Table - CustomerInformation

hbase(main):001:0> list

**TABLE** 

CustomerInformation

emphive

```
flight
```

3 row(s) in 1.6070 seconds

=> ["CustomerInformation", "emphive", "flight"] hbase(main):002:0> put 'CustomerInformation',1,'ContactInfo:email\_id','abc12@gmail.com' 0 row(s) in 1.3750 seconds

0 row(s) in 0.0990 seconds

hbase(main):004:0> put 'CustomerInformation',1,'ContactInfo:Address','pune' 0 row(s) in 0.0550 seconds

hbase(main):005:0> put 'CustomerInformation',1,'ContactInfo:First\_name','abc' 0 row(s) in 0.0510 seconds

hbase(main):006:0> put 'CustomerInformation',1,'ContactInfo:Middle\_name','ABC' 0 row(s) in 0.0650 seconds

hbase(main):007:0> put 'CustomerInformation',1,'ContactInfo:Last\_name','AbC' 0 row(s) in 0.1000 seconds

hbase(main):008:0> put 'CustomerInformation',2,'ContactInfo:email\_id','pooja@gmail.com' 0 row(s) in 0.0950 seconds

hbase(main):009:0> put 'CustomerInformation',1,'ContactInfo:Address','kolhapur' 0 row(s) in 0.0570 seconds

hbase(main):010:0> put 'CustomerInformation',2,'ContactInfo:First\_name','pooja' 0 row(s) in 0.0530 seconds

hbase(main):011:0> put 'CustomerInformation',2,'ContactInfo:Middle\_name','surykant' 0 row(s) in 0.0660 seconds

hbase(main):012:0> put 'CustomerInformation',2,'ContactInfo:Last\_name','kanwate' 0 row(s) in 0.1040 seconds

hbase(main):013:0> put 'CustomerInformation',3,'ContactInfo:email\_id','minal@gmail.com' 0 row(s) in 0.0590 seconds

hbase(main):014:0> put 'CustomerInformation',3,'ContactInfo:Address','jalgaon' 0 row(s) in 0.1120 seconds

hbase(main):015:0> put 'CustomerInformation',3,'ContactInfo:First\_name','minal' 0 row(s) in 0.0550 seconds

hbase(main):016:0> put 'CustomerInformation',3,'ContactInfo:Middle\_name','dilip' 0 row(s) in 0.0530 seconds

hbase(main):017:0> put 'CustomerInformation',3,'ContactInfo:Last\_name','barhate' 0 row(s) in 0.0780 seconds

**ROW** COLUMN+CELL column=ContactInfo:Address, timestamp=1579712487830, 1 value=kolhapur column=ContactInfo:First name, timestamp=1579712391715, value=abc column=ContactInfo:Last name, timestamp=1579712445301, value=AbC column=ContactInfo:Middle name, timestamp=1579712427068, value=ABC column=ContactInfo:email id, timestamp=1579712271094, value=abc12@gmail.com column=ContactInfo:First name, timestamp=1579712528844, value=pooja column=ContactInfo:Last name, timestamp=1579712591138, value=kanwate column=ContactInfo:Middle name, timestamp=1579712552618, value=surykant column=ContactInfo:email id, timestamp=1579712469400,

value=pooja@gmail.com

value=jalgaon

column=ContactInfo:Address, timestamp=1579712634827,

column=ContactInfo:First name, timestamp=1579712650119,

column=ContactInfo:Last name, timestamp=1579712685408,

3

value=minal

column=ContactInfo:Middle name,

3

value=barhate

timestamp=1579712666188, value=dilip

hbase(main):018:0> scan 'CustomerInformation'

column=ContactInfo:email id, timestamp=1579712613067,

value=minal@gmail.com 3 row(s) in 1.0950 seconds

## • External Connection between hive and hbase

hduser@ubuntu:~\$ jps 2464 DataNode 2339 NameNode 2692 SecondaryNameNode 2853 ResourceManager 2989 NodeManager 3023 Jps

hduser@ubuntu:~\$ hive

Logging initialized using configuration in jar:file:/usr/lib/hive/lib/hive-common-1.2.2.jar!/hive-log4j.properties

hive> show databases;

OK default

Time taken: 3.892 seconds, Fetched: 1 row(s)

hive> create database pooja;

OK

Time taken: 0.991 seconds hive> show databases;

OK default pooja

Time taken: 0.206 seconds, Fetched: 2 row(s)

hive> use pooja;

OK

Time taken: 0.159 seconds

## • Table creation for connectivity:

hive> create table empdata300(ename string,esal int)

> row format delimited fields terminated by "," stored as textfile

> location "/home/pooja/empdata300";

OK

Time taken: 2.344 seconds

hive> show tables;

OK

empdata300

Time taken: 0.335 seconds, Fetched: 1 row(s)

hive> drop table empdata300;

OK

Time taken: 5.194 seconds

hive> create table empdata300(ename string,esal int)

> row format delimited fields terminated by "," stored as textfile

> location "/home/pooja/Desktop/empdata300";

OK

Time taken: 0.447 seconds

# • Loading the data in the table:

hive> load data local inpath '/home/pooja/Desktop/empdb300.txt' into table empdata300;hduser@ubuntu:~\$ hive

Logging initialized using configuration in jar:file:/usr/lib/hive/lib/hive-common-1.2.2.jar!/hive-log4j.properties

hive> load data local inpath '/home/pooja/Desktop/empdb300.txt' into table empdata300;

FAILED: SemanticException [Error 10001]: Line 1:70 Table not found 'empdata300' hive> drop table empdata300;

OK

Time taken: 0.503 seconds hive> show databases;

OK default pooja

hive> create table empdata300(ename string,esal int)

- > row format delimited fields terminated by "," stored as textfile
- > location "/home/ubuntu/Desktop/empdb300";

OK

Time taken: 0.385 seconds hive> select \* from empdata300;

OK

```
NULL
       NULL
Pooja
       100000
abc
       70000
XYZ
       80000
       30000
pqr
       40000
str
Sujata 20000
Time taken: 1.386 seconds, Fetched: 8 row(s)
hive> create external table hive_table_emp300(id int,name string,esal string)
  > stored by 'org.apache.hadoop.hive.hbase.HBaseStorageHandler'
  > with SERDEPROPERTIES("hbase.columns.mapping"=":key,cf:name,cf:esal")
  > TBLPROPERTIES("hbase.table.name"="emphive");
OK
Time taken: 1.877 seconds
hive> create table empdbnew300(eno int,ename string,esal int) row format
  > delimited fields terminated by ',' stored as textfile;
Time taken: 0.419 seconds
hive> load data local inpath '/home/pooja/Desktop/empdbnew300.txt' into table empdbnew300;
Loading data to table minal.empdbnew300
Table minal.empdbnew300 stats: [numFiles=1, totalSize=78]
OK
Time taken: 1.401 seconds
hive> select * from empdbnew300;
OK
       Pooja
               100000
1
2
       abc
               70000
3
       XYZ
               80000
4
               30000
       pqr
5
               40000
       str
       Sujata 20000
Time taken: 0.498 seconds, Fetched: 6 row(s)
hive> show tables;
OK
empdata300
empdbnew300
hive table emp300
Time taken: 0.281 seconds, Fetched: 3 row(s)
hive> select * from hive_table_emp300;
OK
Time taken: 0.424 seconds
hive> select * from empdbnew300 where esal > 7000;
OK
1
       Pooja
               100000
2
       abc
               70000
3
       XYZ
               80000
4
               30000
       pqr
5
               40000
       str
       Sujata 20000
Time taken: 0.661 seconds, Fetched: 6 row(s)
hive> create external table hbase_flight_new300(fno int,fsource string,fdest string,fsh_at string,
fsh_dt string,fsch_delay string)
  > stored by 'org.apache.hadoop.hive.hbase.HBaseStorageHandler'
```

SERDEPROPERTIES("hbase.columns.mapping"=":key,finfo:source,finfo:dest,fsch:at,fsch:dt,fsch:delay")

```
> TBLPROPERTIES("hbase.table.name"="flight");
OK
Time taken: 0.863 seconds
hive> show tables
>;
OK
empdata300
empdbnew300
hbase_flight_new300
hive_table_emp300
Time taken: 0.232 seconds, Fetched: 4 row(s)
```

#### • Connection Occurred in the hive from the hbase table:

```
hive> select * from hbase_flight_new300;
OK
1
       pune
               NULL 11.11a.m.
                                       12.50p.m.
2
       pune
               kolhapur
                               11.10a.m.
                                              12.10p.m.
                                                              4
3
               jalgaon 10.10a.m.
                                       10.10p.m.
       pune
                                                      10
4
               sangli 1.10a.m.
                                       3.10a.m.
       pune
                                                      1
5
               aurangabad
                               2.10a.m.
                                              3.01a.m.
       pune
                                                              6
       mumbai bengloar
                               2.7a.m. 5.01a.m.
       kolhapur
                       bengloar
                                       8.7a.m. 12.01p.m.
                                                              3
Time taken: 0.696 seconds, Fetched: 7 row(s)
```

## • Average Command:

```
hive> select avg(fsch_delay) from hbase_flight_new300;
Query ID = hduser_20200122204425_b7258dfb-7df8-4c1a-af39-4665a8dbc69c
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
set mapreduce.job.reduces=<number>
Starting Job = job_1579750852930_0002, Tracking URL =
http://localhost:8088/proxy/application_1579750852930_0002/
Kill Command = /usr/local/hadoop/bin/hadoop job -kill job_1579750852930_0002
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2020-01-22\ 20:45:27,966\ Stage-1\ map = 0\%, reduce = 0%
2020-01-22 20:45:57,679 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 9.91 sec
2020-01-22 20:46:21,346 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 14.29 sec
MapReduce Total cumulative CPU time: 14 seconds 290 msec
Ended Job = job_1579750852930_0002
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 14.29 sec HDFS Read: 8270 HDFS Write:
18 SUCCESS
Total MapReduce CPU Time Spent: 14 seconds 290 msec
5.285714285714286
Time taken: 118.729 seconds, Fetched: 1 row(s)
hive> CREATE INDEX hbasefltnew index1
```

```
> ON TABLE hbase_flight_new300(fsch_delay)
  > AS 'org.apache.hadoop.hive.ql.index.compact.CompactIndexHandler'
  > WITH DEFERRED REBUILD;
OK
Time taken: 1.369 seconds
hive> show index on hbase_flight_new300;
hbasefltnew_index1
                       hbase_flight_new300
                                               fsch delay
       minal_hbase_flight_new300_hbasefltnew_index1__
                                                               compact
Time taken: 0.498 seconds, Fetched: 1 row(s)
hive> create table empinfo300(empno int,empgrade string) row format delimited
  > fields terminated by ',' stored as textfile;
Time taken: 0.385 seconds
hive>
  >;
hive> load data local inpath '/home/pooja/Desktop/empinfo300.txt' into table empinfo300;
Loading data to table minal.empinfo300
Table minal.empinfo300 stats: [numFiles=1, totalSize=24]
OK
Time taken: 1.345 seconds
hive> select * from empinfo300;
OK
1
       a
2
       b
3
       c
4
       d
5
       e
       f
Time taken: 0.491 seconds, Fetched: 6 row(s)
```

Output Connectivity hive and hbase Screenshot:

