**hbase(main):001:0> put 'flight',2,'f\_info:source','Karnataka'**

**put 'flight',2,'f\_info:destination','Kerala'**

**put 'flight',2,'f\_schedule:Arrival\_time','2:30pm'**

**put 'flight',2,'f\_schedule:Departure\_time','1:30pm'**

**put 'flight',2,'f\_delay:delay','450'**

0 row(s) in 1.9240 seconds

0 row(s) in 0.0270 seconds

0 row(s) in 0.0160 seconds

0 row(s) in 0.0190 seconds

0 row(s) in 0.0600 seconds

**hbase(main):006:0> put 'flight',3,'f\_info:source','kerala'**

**put 'flight',3,'f\_info:destination','Andhra Pradesh'**

**put 'flight',3,'f\_schedule:Arrival\_time','20:30pm'**

**put 'flight',3,'f\_schedule:Departure\_time','10:30pm'**

**put 'flight',3,'f\_delay:delay','98mins'**

0 row(s) in 0.0410 seconds

0 row(s) in 0.0150 seconds

0 row(s) in 0.0200 seconds

0 row(s) in 0.0210 seconds

0 row(s) in 0.0100 seconds

**hbase(main):011:0> scan 'flight'**

ROW COLUMN+CELL

1 column=f\_delay:delay, timestamp=1715177532797, value=45

1 column=f\_info:destination, timestamp=1715177532420, value=Karnatka

1 column=f\_info:source, timestamp=1715177298196, value=Pune

1 column=f\_schedule:Arrival\_time, timestamp=1715177532523, value=22:30pm

1 column=f\_schedule:Departure\_time, timestamp=1715177532728, value=10:30pm

2 column=f\_delay:delay, timestamp=1715177929747, value=450

2 column=f\_info:destination, timestamp=1715177929083, value=Kerala

2 column=f\_info:source, timestamp=1715177928829, value=Karnataka

2 column=f\_schedule:Arrival\_time, timestamp=1715177929241, value=2:30pm

2 column=f\_schedule:Departure\_time, timestamp=1715177929402, value=1:30pm

3 column=f\_delay:delay, timestamp=1715177990830, value=98mins

3 column=f\_info:destination, timestamp=1715177990603, value=Andhra Pradesh

3 column=f\_info:source, timestamp=1715177990475, value=kerala

3 column=f\_schedule:Arrival\_time, timestamp=1715177990677, value=20:30pm

3 column=f\_schedule:Departure\_time, timestamp=1715177990741, value=10:30pm

3 row(s) in 0.3890 seconds

**hbase(main):022:0> put 'flight',1,'f\_info:source','kerala'**

**put 'flight',1,'f\_info:destination','Andhra Pradesh'**

**put 'flight',1,'f\_schedule:Arrival\_time','20:30pm'**

**put 'flight',1,'f\_schedule:Departure\_time','10:30pm'**

**put 'flight',1,'f\_delay:delay','98mins'**

0 row(s) in 0.0280 seconds

0 row(s) in 0.0170 seconds

0 row(s) in 0.0200 seconds

0 row(s) in 0.0110 seconds

0 row(s) in 0.0130 seconds

**hbase(main):027:0> scan 'flight'**

ROW COLUMN+CELL

1 column=f\_delay:delay, timestamp=1715178594887, value=98mins

1 column=f\_info:destination, timestamp=1715178594682, value=Andhra Pradesh

1 column=f\_info:source, timestamp=1715178594605, value=kerala

1 column=f\_schedule:Arrival\_time, timestamp=1715178594749, value=20:30pm

1 column=f\_schedule:Departure\_time, timestamp=1715178594812, value=10:30pm

2 column=f\_delay:delay, timestamp=1715177929747, value=450

2 column=f\_info:destination, timestamp=1715177929083, value=Kerala

2 column=f\_info:source, timestamp=1715177928829, value=Karnataka

2 column=f\_schedule:Arrival\_time, timestamp=1715177929241, value=2:30pm

2 column=f\_schedule:Departure\_time, timestamp=1715177929402, value=1:30pm

3 column=f\_delay:delay, timestamp=1715177990830, value=98mins

3 column=f\_info:destination, timestamp=1715177990603, value=Andhra Pradesh

3 column=f\_info:source, timestamp=1715177990475, value=kerala

3 column=f\_schedule:Arrival\_time, timestamp=1715177990677, value=20:30pm

3 column=f\_schedule:Departure\_time, timestamp=1715177990741, value=10:30pm

3 row(s) in 0.3590 seconds

**hive> create external table flighthive( flight\_id int , flight\_name string ,schedule\_time int,departure\_delay int)**

**> stored by 'org.apache.hadoop.hive.hbase.HBaseStorageHandler'**

**> with serdeproperties("hbase.columns.mapping"=":key,f\_info:source,f\_info:destination,f\_delay:delay")**

**> tblproperties("hbase.table.name"="flight");**

OK

Time taken: 12.251 seconds

hive> show tables

> ;

OK

customer\_info

default\_\_flight\_info\_hive\_flight\_delay\_index\_\_

employee\_hbase

flight\_info\_hive

flighthive

item\_info

online\_retail

online\_retail\_hbase

order\_info

Time taken: 1.024 seconds, Fetched: 9 row(s)

hive> describe flighthive;

OK

flight\_id int from deserializer

flight\_name string from deserializer

schedule\_time int from deserializer

departure\_delay int from deserializer

Time taken: 0.587 seconds, Fetched: 4 row(s)

**hive> SELECT \* FROM flighthive;**

OK

1 kerala NULL NULL

2 Karnataka NULL 450

3 kerala NULL NULL

Time taken: 1.84 seconds, Fetched: 3 row(s)

**hbase(main):001:0> put 'flight', '1', 'f\_info:source', 'Pune'**

**put 'flight', '1', 'f\_info:destination', 'Karnatka'**

**put 'flight', '1', 'f\_schedule:Arrival\_time', '22:30pm'**

**put 'flight', '1', 'f\_schedule:Departure\_time', '10:30pm'**

**put 'flight', '1', 'f\_delay:delay', '45'**

0 row(s) in 1.6430 seconds

0 row(s) in 0.0150 seconds

0 row(s) in 0.0150 seconds

0 row(s) in 0.0100 seconds

0 row(s) in 0.0320 seconds

**hbase(main):007:0\* put 'flight', '2', 'f\_info:source', 'Karnataka'**

**put 'flight', '2', 'f\_info:destination', 'Kerala'**

**put 'flight', '2', 'f\_schedule:Arrival\_time', '2:30pm'**

**put 'flight', '2', 'f\_schedule:Departure\_time', '1:30pm'**

**put 'flight', '2', 'f\_delay:delay', '450'**

0 row(s) in 0.0330 seconds

0 row(s) in 0.0250 seconds

0 row(s) in 0.0320 seconds

0 row(s) in 0.0110 seconds

0 row(s) in 0.0190 seconds

**hbase(main):012:0> put 'flight', '3', 'f\_info:source', 'kerala'**

**put 'flight', '3', 'f\_info:destination', 'Andhra Pradesh'**

**put 'flight', '3', 'f\_schedule:Arrival\_time', '20:30pm'**

**put 'flight', '3', 'f\_schedule:Departure\_time', '10:30pm'**

**put 'flight', '3', 'f\_delay:delay', '98mins'**

0 row(s) in 0.0280 seconds

0 row(s) in 0.0190 seconds

0 row(s) in 0.0190 seconds

0 row(s) in 0.0190 seconds

0 row(s) in 0.0240 seconds

hbase(main):017:0>

**[4]+ Stopped hbase shell**

**[cloudera@quickstart Desktop]$ hive**

Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.properties

WARNING: Hive CLI is deprecated and migration to Beeline is recommended.

hive> select sum (departure\_delay) as totaldelay from flighthive

> ;

Query ID = cloudera\_20240508075656\_32745c8a-6d41-4b5a-b2e4-a0bee293dad2

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\_1715176072488\_0001, Tracking URL = http://quickstart.cloudera:8088/proxy/application\_1715176072488\_0001/

Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job\_1715176072488\_0001

Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1

2024-05-08 07:58:03,729 Stage-1 map = 0%, reduce = 0%

2024-05-08 07:58:40,268 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 5.15 sec

2024-05-08 07:59:11,241 Stage-1 map = 100%, reduce = 67%, Cumulative CPU 7.4 sec

2024-05-08 07:59:14,919 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 8.87 sec

MapReduce Total cumulative CPU time: 8 seconds 870 msec

Ended Job = job\_1715176072488\_0001

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 8.87 sec HDFS Read: 14176 HDFS Write: 4 SUCCESS

Total MapReduce CPU Time Spent: 8 seconds 870 msec

OK

495

Time taken: 143.72 seconds, Fetched: 1 row(s)

hive> select avg (departure\_delay) as avgdelay from flighthive;

Query ID = cloudera\_20240508080202\_1efb7e55-9d11-4458-b29e-deb38214baa5

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\_1715176072488\_0002, Tracking URL = http://quickstart.cloudera:8088/proxy/application\_1715176072488\_0002/

Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job\_1715176072488\_0002

Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1

2024-05-08 08:03:03,714 Stage-1 map = 0%, reduce = 0%

2024-05-08 08:03:35,738 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.83 sec

2024-05-08 08:03:59,161 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 7.17 sec

MapReduce Total cumulative CPU time: 7 seconds 170 msec

Ended Job = job\_1715176072488\_0002

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.17 sec HDFS Read: 7725 HDFS Write: 6 SUCCESS

Total MapReduce CPU Time Spent: 7 seconds 170 msec

OK

247.5

Time taken: 94.373 seconds, Fetched: 1 row(s)