**[cloudera@quickstart Desktop]$ hbase shell**

2025-05-07 06:26:32,488 INFO [main] Configuration.deprecation: hadoop.native.lib is deprecated. Instead, use io.native.lib.available

HBase Shell; enter 'help<RETURN>' for list of supported commands.

Type "exit<RETURN>" to leave the HBase Shell

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**Hbase database creation**

**hbase(main):001:0> create 'flight\_info','details','schedule','delay'**

0 row(s) in 2.7600 seconds

=> Hbase::Table - flight\_info

hbase(main):002:0> **put 'flight\_info','flight1','details:airlines','Delta'**

0 row(s) in 0.1740 seconds

hbase(main):003:0> **put 'flight\_info', 'flight1', 'details:source', 'JFK'**

0 row(s) in 0.0140 seconds

hbase(main):004:0> **put 'flight\_info', 'flight1', 'details:destination', 'LAX'**

0 row(s) in 0.0260 seconds

hbase(main):005:0**> put 'flight\_info', 'flight1', 'schedule:departure\_time', '2025-05-01 08:00'**

0 row(s) in 0.0140 seconds

hbase(main):006:0> **put 'flight\_info', 'flight1', 'schedule:arrival\_time', '2025-05-01 11:00'**

0 row(s) in 0.0120 seconds

hbase(main):007:0> **put 'flight\_info', 'flight1', 'delay:dep\_delay', '15'**

0 row(s) in 0.0130 seconds

hbase(main):008:0> **put 'flight\_info', 'flight1', 'delay:arr\_delay', '10'**

0 row(s) in 0.0130 seconds

hbase(main):009:0> **alter 'flight\_info','add','weather'**

Updating all regions with the new schema...

0/1 regions updated.

1/1 regions updated.

Done.

Updating all regions with the new schema...

1/1 regions updated.

Done.  
0 row(s) in 5.1120 seconds  
  
**[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.

**Mapping Hive and executing queries**

hive> **CREATE EXTERNAL TABLE flight\_hive (**

**> flight\_id STRING,**

**> airline STRING,**

**> source STRING,**

**> destination STRING,**

**> departure\_time STRING,**

**> arrival\_time STRING,**

**> dep\_delay INT,**

**> arr\_delay INT**

**> )**

**> STORED BY 'org.apache.hadoop.hive.hbase.HBaseStorageHandler'**

**> WITH SERDEPROPERTIES (**

**> 'hbase.columns.mapping' = ":key,details:airline,details:source,details:destination,**

**> schedule:departure\_time,schedule:arrival\_time,**

**> delay:dep\_delay,delay:arr\_delay"**

**> )**

> **TBLPROPERTIES ("hbase.table.name" = "flight\_info");**

OK

Time taken: 1.312 seconds

hive> **SELECT \* FROM flight\_hive**

> ;

OK

flight1 NULL JFK LAX 2025-05-01 08:00 2025-05-01 11:00 15 10

Time taken: 1.683 seconds, Fetched: 1 row(s)

hive> **SELECT SUM(dep\_delay) AS total\_departure\_delay**

**> FROM flight\_hive;**

Query ID = cloudera\_20250507064848\_77409f07-bf3f-42be-a191-ecf9eff50a22

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\_1744085536392\_0008, Tracking URL = http://quickstart.cloudera:8088/proxy/application\_1744085536392\_0008/

Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job\_1744085536392\_0008

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

2025-05-07 06:49:25,154 Stage-1 map = 0%, reduce = 0%

2025-05-07 06:49:42,130 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.12 sec

2025-05-07 06:49:51,670 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 4.41 sec

MapReduce Total cumulative CPU time: 4 seconds 410 msec

Ended Job = job\_1744085536392\_0008

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 4.41 sec HDFS Read: 9022 HDFS Write: 3 SUCCESS

Total MapReduce CPU Time Spent: 4 seconds 410 msec

OK

15

Time taken: 66.159 seconds, Fetched: 1 row(s)

**hive> SELECT AVG(dep\_delay) AS avg\_departure\_delay**

**> FROM flight\_hive;**

Query ID = cloudera\_20250507065050\_6eb79164-40af-4703-a0ba-daed64abebaf

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\_1744085536392\_0009, Tracking URL = http://quickstart.cloudera:8088/proxy/application\_1744085536392\_0009/

Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job\_1744085536392\_0009

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

2025-05-07 06:51:19,669 Stage-1 map = 0%, reduce = 0%

2025-05-07 06:51:31,922 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.65 sec

2025-05-07 06:51:43,148 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 4.05 sec

MapReduce Total cumulative CPU time: 4 seconds 50 msec

Ended Job = job\_1744085536392\_0009

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 4.05 sec HDFS Read: 9623 HDFS Write: 5 SUCCESS

Total MapReduce CPU Time Spent: 4 seconds 50 msec

OK

15.0

Time taken: 52.513 seconds, Fetched: 1 row(s)

**hbase(main):010:0> CREATE INDEX idx\_airline ON flight\_info (details:airline);**