[cloudera@quickstart ~]\$ hadoop fs -put /home/cloudera/sales.csv /user/cloudera/abc [cloudera@quickstart ~]\$ hive

```
Time taken: 2.393 seconds hive> show tables;
                                                                                                                        hive> create table countries(Region string,country string,itemtype string,sales string,orderpriority string,orderdate string,orderid st
t int)row format delimited fields terminated by ',' TBLPROPERTIES ("Skip.header.line.count"="1");
```

categories countries customers

bucket1 bucket2 capsales

```
unitprice
                                                                                                                                                                                                                            unitsold
                                                                                                                                                                                                                                             shipdate
                                                                                                                                                                                                                                                                orderid
                                                                                                                                                                                                                                                                                  orderdate
                                                                                                                                                                                                                                                                                                  orderpriority
                                                                                                                                                                                                                                                                                                                    sales
                                                                                                                                                                                                                                                                                                                                    itemtype
                                                                                                                                                                                                                                                                                                                                                       country
                                                                                                                                                                                                                                                                                                                                                                         region
                                                                                                                                                                                                                                                                                                                                                                                                             hive> describe countries;
                                                                                                                                                                                       unitcost
                                                                                                                                 totalprofit
                                                                                                                                                    totalcost
                                                                                                                                                                     totalrevenue
                                                                            Loading data to table default.countries
                                                                                             hive> load data inpath "/user/cloudera/abc/sales.csv" into table countries;
                      Time taken: 0.639 seconds
                                                         Table default.countries stats: [numFiles=1, totalSize=623134]
                                                                                                               Time taken: 0.157 seconds, Fetched: 14 row(s)
[Cloudera Live : Welco... | [3] [cloudera@quickstart:~] | [3] [/]
                                                                                                                                                                                                                                                                                                                                                        string
                                                                                                                                                                                                                                                                               string
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                                                                                                                                                     int
                                                                                                                                                                        int

☐ cloudera@quickstart:~ | ● [Browsing HDFS - Mozi...]
```

```
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 3.57 sec
                                                            Time taken: 43.546 seconds, Fetched: 1 row(s)
                                                                                                                                                                                                     Total MapReduce CPU Time Spent: 3 seconds 570 msec
                                                                                                                                                                                                                                                                                                          MapReduce Jobs Launched:
                                                                                                                                                                                                                                                                                                                                                      Ended Job = job_1753244701726_0001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Starting Job = job_1753244701726_0001, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1753244701726_0001/
                                                                                                                                                                                                                                                                                                                                                                                                          MapReduce Total cumulative CPU time: 3 seconds 570 msec
                                                                                                                                                                                                                                                                                                                                                                                                                                                        2025-07-22 22:36:03,662 Stage-1 map = 100%,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1753244701726_0001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      In order to set a constant number of reducers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    In order to limit the maximum number of reducers:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              In order to change the average load for a reducer (in bytes):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Number of reduce tasks determined at compile time: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query ID = cloudera_20250722223535_40d5406d-ab84-481f-9f77-8ad7d83fcb3f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2025-07-22 22:35:52,473 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.87 sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Launching Job 1 out of 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total jobs = 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hive> select count(distinct country) from countries
     [Cloudera Live : Welco... S [cloudera@quickstart:~]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  set mapreduce.job.reduces=<number>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             set hive.exec.reducers.bytes.per.reducer=<number>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     set hive.exec.reducers.max=<number>
                                                                                                                                                                                                                                                                                                                                                                                                                                                      reduce = 100%, Cumulative CPU 3.57 sec
     ☐ cloudera@quickstart:~
[Browsing HDFS - Mozi...
                                                                                                                                                                                                                                                         HDFS Read: 631364 HDFS Write: 4 SUCCESS
```

```
hive> select region,SUM(unitsold) as total_units_sold from countries group by region;
Query ID = cloudera_20250722223838_ffa7cc1d-05ea-4f8f-b345-e4e3b3e2798e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 In order to limit the maximum number of reducers:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Total jobs = 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Starting Job = job_1753244701726_0002, Tracking URL = http://quickstārt.cloudera:8088/proxy/application_1753244701726_0002/
|Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1753244701726_0002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            In order to set a constant number of reducers:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      In order to change the average load for a reducer (in bytes):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Number of reduce tasks not specified. Estimated from input data size: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Launching Job 1 out of 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          File Edit View Search Terminal Help
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2025-07-22 22:38:22,535 Stage-1 map = 0%, reduce = 0%
2025-07-22 22:38:32,632 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.57 sec
2025-07-22 22:38:44,796 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.36 sec
                                                                                                                                                                                                                                                                                                                                                                                                                       Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 3.36 sec
Total MapReduce CPU Time Spent: 3 seconds 360 msec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stage-Stage-1: Map: 1 Reduce: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MapReduce Jobs Launched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ended Job = job_1753244701726_0002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MapReduce Total cumulative CPU time: 3 seconds 360 msec
                                                                                                                                                                                                                                                      Central America and the Caribbean
                                                                                                                                                                                                                                                                                               Australia and Oceania
                                                                                                                                                                                                             Europe 6582322
                                           Sub-Saharan Africa
                                                                                                                                                              Middle East and North Africa
                                                                                                                              North America
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          set hive.exec.reducers.bytes.per.reducer=<number>
Time taken: 35.372 seconds, Fetched: 8 row(s)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        set hive.exec.reducers.max=<number>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         set mapreduce.job.reduces=<number>
                                                                                                                                   484760
                                                                                                                                                                                                                                                                                                  2111786
                                              6642380
                                                                                                                                                                       3013431
                                                                                                                                                                                                                                                                                                                                                                                                                                                          HDFS Read: 631512 HDFS Write: 195 SUCCESS
```

```
ime taken: 32.103 seconds, Fetched: 10 row(s)
                                                ub-Saharan Africa
                                                                         entral America and the Caribbean
                                                                                                                                              iddle East and North Africa
                                                                                                                                                                                              Sia
                                                                                                                                                                                                                             SIa
                                                                                                                                                                                                                                                            urope Armenia Household
                                                                                                                                                                                                                                                                                            ub-Saharan Africa
ub-Saharan Africa
                                                                                                                                                                                                                                                                                                                                                                legion Country Item Type
                                                                                                                                                                                                                                                                                                                                                                                                                                 otal MapReduce CPU Time Spent: 3 seconds 900 msec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 3.9 sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lapReduce Jobs Launched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       inded Job = job_1753244701726_0003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  lapReduce Total cumulative CPU time: 3 seconds 900 msec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ladoop job information for Stage-1: number of mappers: 1; number of reducers: 1 1025-07-22 22:41:58,311 Stage-1 map = 0%, reduce = 0% 1025-07-22 22:42:07,262 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.96 sec 1025-07-22 22:42:18,432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18,432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.9 sec 1025-07-22 22:42:18 432 Stage-1 map = 100%, reduce = 100%, re
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    itarting Job = job_1753244701726_0003, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1753244701726_0003/
ill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1753244701726_0003
                                                                                                                 Myanmar Meat
                                                                                                                                                                                           Laos
                                                                                                                                                                                                                          Cambodia
                                                                                                                                        Cereal Online L 9/9/2/
d North Africa Saudi Arabia
                                                                                                                 Online L
                                                                                                                                                                                                                                                                                              Niger
                                       Democratic Republic of the Congo
                                                                                                                                                                                                            Beverages
                                                                                                                                                                                                                                                                                                                           Senegal Beverages
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ages Offline L
a L 9/9/2014
                                                                                                                                                                                                                                                                                              Vegetables
                                                                                                                                                                                                                                                                                                                                                                   Sales Channel
                                                                       Saint Kitts and Nevis Household
                                                                                                              9/9/2013
                                                                                                                                                Snacks Online M
                                                                                                                                                                                                                                                                                            Online M
Online C
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                                                                                                                 167510020
                                                                                                                                                                                     636694037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HDFS Read: 633695 HDFS Write: 1085 SUCCESS
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                                       Clothes Online H
                                                                                                                                                                                                                                                       621577537
                                                                                                                                                                                                                                                                                            9/9/2015
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                                                                                                                                                                                                                                                                                                                        Order ID
781646621
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5460
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                                    10/4/2013
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                                                                                                                                              152
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                                                                                                                                                                                                                  278798
                                                                                                                                                                                                                                                                                                                                                          NULL
                                                                                                                                                                                                                                                                                                                           259077
                                                                                                                                                                                                                                                                                      1512252
                                                                                                                                                                                                                                                                                                                  173573
                                                                                                                                                                                                            137338
                                                                                                                                                                                                                                                                                   892568
                                                                                                                                        662502
                                                                                                                                                                                                                                                                                   85503
619684
                                                                                                                                        423084
                               502
616557
                                                                                                                                        239417
                               2056266 1546315 50995
202209 414348
```

In order to set a constant number of reducers: In order to limit the maximum number of reducers:

set hive.exec.reducers.max=<number>

set mapreduce.job.reduces=<number>

In order to change the average load for a reducer (in bytes):

set hive.exec.reducers.bytes.per.reducer=<number>

lumber of reduce tasks determined at compile time: 1

aunching Job 1 out of 1

otal jobs =

)uery ID = cloudera\_20250722224141\_dcd5b72c-d9e7-46d3-9c39-da187b981969 nive> select \* from countries order by orderdate desc limit 10;