Outputs:

```
hdp123@stud-opttPlex-3060:/usr/local/Nive/binS ./hive
SLF41: Class path contains muttiple SLF43 bindings.
SLF41: Class path contains muttiple SLF43 bindings.
SLF41: Found binding in [jar:file:/usr/local/hadoop/share/hadoop/common/tb/slf4]-log4]t-1.7.25.jari/org/slf4]/impl/StaticLoggerBinder.class]
SLF41: See http://www.slf4j.org/codes.html#muttiple_bindings for an explanation.
SLF41: Actual binding is of type [org.apache.logging.slf4].log4]loggerFactory]

Logging initialized using configuration in jar:file:/usr/local/hive/lib/hive-common-2.3.9.jar!/hive-log4]2.properties Async: true Hive-on-NR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, t ez) or using Hive 1.X releases.
Nive> show databases;
OK di default
Time taken: 4.003 seconds, Fetched: 2 row(s)
hive> create database dis7;
OK Tine taken: 0.198 seconds
hive> show databases
> hdp123@stud-opttPlex-3060:/usr/local/hive/binS
hdp123@stud-opttPlex-3060:/usr/local/hive/binS
slf41: Found binding in [jar:file:/usr/local/hive/binGadop/share/hadoop/common/lib/slf4]-log4]12-1.7.25.jari/org/slf4j/impl/StaticLoggerBinder.class]
Slf41: Found binding in [jar:file:/usr/local/hive/lib/log4]-slf4j-impl-2.6.2.jari/org/slf4j/impl/StaticLoggerBinder.class]
Slf41: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
Slf42: Caula binding is of type [org.apache.logging.slf4j.log4]loggerFactory]

Logging initialized using configuration in jar:file:/usr/local/hive/lib/hive-common-2.3.9.jar!/hive-log4]2.properties Async: true
Hive-on-NR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, t e2) or using Hive 1.X releases.
hive> show databases;
OK diffile in the future versions. Consider using a different execution engine (i.e. spark, t e2) or using Hive 1.X releases.
```

```
Nive use d157;

OK

Time taken: 0.015 seconds
hive> create table flight(Year int, Month int, DayofMonth int, DayofWeek int, DepTime int, CRSDepTime int, ArrTime int, CRSArrTime int, Unique carrier string, FlightNum int, TailNum string, ActualElapsedTime int, CRSElapsedTime int, AirTime int, ArrDelay int, DepDelay int, Origin string, Distance int, TaxiIn int, TaxiOut int, Cancelled int, CancellationCode string, Diverted string, CarrierDelay int, WeatherDel ay int, NASDelay int, SecurityDelay int, LateAircraftDelay int) row format delimited fields terminated by ',';

OK

Time taken: 0.854 seconds
hives show tables;

OK

Time taken: 0.035 seconds, Fetched: 1 row(s)
hives load data local inpath '/home/stud/Downloads/flight_data.csv' into table flight;

Loading data to table d157.flight

OK

Time taken: 1.057 seconds
hives create table flight_fare( FlightNum int, Fare int) row format delimited fields terminated by ',';

OK

Time taken: 0.077 seconds
hives show tables;

OK

Flight

Flight
```

```
hive> select flight.Origin, flight.Dest, flight_fare.fare from flight join flight_fare on flight.FlightNum=flight_fare.FlightNum;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e.
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.

Query ID = hdp123_20230503153024_10d2b95e-6f57-44a3-9ba4-ec5a14582ca7

Total jobs = 1

SLF4J: Class path contains multiple SLF4J bindings.

SLF4J: Found binding in [jar:file:/usr/local/hive/lib/log4j-slf4j-impl-2.6.2.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: 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.apache.logging.slf4j.log4jl.oggerFactory]

2023-05-03 15:30:30

Starting to launch local task to process map join; maximum memory = 477626368

2023-05-03 15:30:30

Dump the side-table for tag: 1 with group count: 47 into file: file:/tmp/hdp123/170595e9-39e7-4c42-bd8d-55926809ca68/hive_2023-05-03 15:30:30

Uploaded 1 File to: file:/tmp/hdp123/170595e9-39e7-4c42-bd8d-55926809ca68/hive_2023-05-03 15:30:30

End of local task; Time Taken: 0.734 sec.

Execution completed successfully

Mapredlocal task succeeded

Launching Job 1 out of 1
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1683107607090_0001, Tracking URL = <a href="http://staud-optiplex-3060:8088/proxy/application-1683107607090-0001/">http://staud-optiplex-3060:8088/proxy/application-1683107607090-0001/</a>
Kill Command = /usr/local/hadoop/bin/hadoop job -kill job_1683107607090_0001
Hadoop job infornation for Stage-3: number of mappers: 1; number of reducers: 0
2023-05-03-15:30:38,061 Stage-3 map = 0%, reduce = 0%
2023-05-03-15:30:42,150 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 1.93 sec
MapReduce Total cumulative CPU time: 1 seconds 930 msec
Ended Job = job_1683107607090_0001
MapReduce Jobs Launched:
Stage-Stage-3: Map: 1 Cumulative CPU: 1.93 sec HDFS Read: 13124 HDFS Write: 1317 SUCCESS
Total MapReduce CPU Time Spent: 1 seconds 930 msec
OK
   OK
SEA
SEA
SAN
                                        SJC
PSP
SEA
                                                                                5181
7905
                                                                                8781
                                        SEA
GEG
SEA
                                                                               8781
7852
9009
    SAN
   SEA
TUS
LAX
LAX
                                        SEA
SEA
                                                                               6250
8535
  ANC
                                        PDX
SEA
                                                                                7141
9184
                                        SEA
DEN
SEA
TUS
SAN
   SJC
SEA
                                                                                7997
9245
   ANC
SEA
SEA
SEA
SEA
                                                                                5897
                                                                                8321
                                                                                8446
                                        SAN
                                                                                9338
5785
   SEA
SEA
                                        LAS
                                                                               5807
6358
   SEA
LAX
                                        PSP
SEA
                                                                                5434
9479
                                                                               7158
6297
5715
8082
6825
                                        SEA
SEA
SEA
  LAX
 ANC
DFW
SEA
DEN
SFO
GEG
                                          LAX
                                        SEA
SEA
SEA
                                                                                9186
7127
   ANC
                                        FAI
SEA
                                                                               6404
7503
                                        PSP
PDX
SEA
SEA
PSP
   SEA
SAN
                                                                               7247
6992
  LAX
                                                                                9505
  DEN
SFO
                                                                                9582
7465
                                 tud-OptiPlex-3060:~$ su hdp123
  Password:
```

```
Time taken: 0.024 seconds, Fetched: 2 row(s)
hive> create external table flight_ext(Year int, Month int, DayofMonth int, DayofWeek int, DepTime int, CRSDepTime int, ArrTime int, CRSArrTi
me int, UniqueCarrier string, FlightNum int, TailNum string, ActualElapsedTime int, CRSElapsedTime int, AirTime int, ArrDelay int, Origin string, Dest string, Distance int, TaxiIn int, TaxiOut int, Cancelled int, CancellationCode string, Diverted string, CarrierDelay int
t, WeatherDelay int, NASDelay int, SecurityDelay int, LateAircraftDelay int) row format delimited fields terminated by ',' location '/user/hi
vs.filabits':
   ve/flight157';
   Time taken: 0.301 seconds hive> show tables:
   OK
flight
flight_ext
flight_fare
   Titing taken: 0.023 seconds, Fetched: 3 row(s)
hive> describe formatted table_name;
FAILED: SemanticException [Error 10001]: Table not found table_name
hive> describe formatted flight_ext;
     # col_name
                                                                                                                data_type
                                                                                                                                                                                                                              comment
    year
     month
                                                                                                                   int
     dayofmonth
    dayofweek
deptime
                                                                                                                   int
     crsdeptime
                                                                                                                  int
    arrtime
crsarrtime
                                                                                                                  int
    uniquecarrier
flightnum
                                                                                                                 string
int
    tailnum
actualelapsedtime
                                                                                                                  string
int
    crselapsedtime
airtime
                                                                                                                 int
int
   arrdelay
depdelay
                                                                                                                   int
hive> select count(*) from flight_ext;

WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.

Query ID = hdp123_20230503153750_23481d31-4331-46a5-ba59-32d08a50fa2f
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=cnumber>
In order to limit the maximum number of reducers:
    set mayreducer.job.reduces=enumber>
In order to set a constant number of reducers:
    set mapreduce.job.reduces=enumber>
Starting Job = job.l683107607090_0002, Tracking URL = http://stud-OptiPlex-3060:8088/proxy/application_1683107607090_0002/
Kill Command = /usr/local/hadoop/bin/hadoop job -kill job_1683107607090_0002
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2023-05-03 15:33:05.050 Stage-1 map = 0%, reduce = 0%
2023-05-03 15:33:05.050 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.21 sec
2023-05-03 15:33:05.050 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 2.53 sec
MapReduce Total cumulative CPU time: 2 seconds 530 msec
Ended Job = job_1683107607990_0002

MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 2.53 sec HDFS Read: 15231 HDFS Write: 102 SUCCESS
Total MapReduce CPU Time Spent: 2 seconds 530 msec
OK
39
  739
Time taken: 15.783 seconds, Fetched: 1 row(s) hive> select avg(depdelay) from flight;
  hive> select avg(depdelay) from flight;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
Query ID = hdp123_20230503153850_bbfc3872-552b-46ab-a05b-dd088e62676e
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>
set hive.exec.reducers.max=<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_1683107607090_0003, Tracking URL = http://stud-OptiPlex-3060:8088/proxy/application_1683107607090_0003/
Kill Command = /usr/local/hadoop/bin/hadoop job -kill job_1683107607090_0003
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2023-05-03 15:38:56,319 Stage-1 map = 0%, reduce = 0%
2023-05-03 15:38:59,381 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.16 sec
2023-05-03 15:39:03,438 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 2.45 sec
MapReduce Total cumulative CPU time: 2 seconds 450 msec
Ended Job = job_1683107607090_0003
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 2.45 sec HDFS Read: 16653 HDFS Write: 118 SUCCESS
Total MapReduce CPU Time Spent: 2 seconds 450 msec
OK
  OK
10.021739130434783
Time taken: 14.047 seconds, Fetched: 1 row(s)
hive>
```