DSBDA MOCK - Hive Inner Join on Employees and Department Roll no - 33322

[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> create table employeed(emp_id int, emp_name string, dept_id int) row format delimited fields terminated by ','

>;

OK

Time taken: 5.686 seconds

hive> create table employees(emp_id int, emp_name string, dept_id int) row format delimited fields terminated by ',' stored as TEXTFILE;

OK

Time taken: 0.323 seconds

hive> create Display all 461 possibilities? (y or n)^C[cloudera@quickstart Desktop]\$ ^C [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> create table departments(dept_name string, dept_id int) row format delimited fields terminated by ',';

OK

Time taken: 1.991 seconds

hive> create table departments(dept_name string, dept_id int) row format delimited fields terminated by ',' stored as TEXTFILE;

FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.ql.exec.DDLTask.

AlreadyExistsException(message:Table departments already exists)

hive> DROP TABLE departments;

OK

Time taken: 1.259 seconds

hive>

> create table departments(dept_name string, dept_id int) row format delimited fields terminated by ',' stored as TEXTFILE;

OK

Time taken: 0.144 seconds

hive> load data inpath 'HIVEJOIN/employees.txt' into table employees;

Loading data to table default.employees

chgrp: changing ownership of

'hdfs://quickstart.cloudera:8020/user/hive/warehouse/employees/employees.txt': User does not belong to hive

Table default.employees stats: [numFiles=1, totalSize=43]

OK

Time taken: 1.483 seconds

hive> load data inpath 'HIVEJOIN/departments.txt' into table departments;

Loading data to table default.departments

```
chgrp: changing ownership of
'hdfs://quickstart.cloudera:8020/user/hive/warehouse/departments/departments.txt': User
does not belong to hive
Table default.departments stats: [numFiles=1, totalSize=15]
OK
Time taken: 0.555 seconds
hive> hive> load data inpath 'HIVEJOIN/departments.txt' into table departments;
NoViableAltException(26@[])
       at org.apache.hadoop.hive.gl.parse.HiveParser.statement(HiveParser.java:1020)
       at org.apache.hadoop.hive.ql.parse.ParseDriver.parse(ParseDriver.java:199)
       at org.apache.hadoop.hive.ql.parse.ParseDriver.parse(ParseDriver.java:166)
       at org.apache.hadoop.hive.gl.Driver.compile(Driver.java:393)
       at org.apache.hadoop.hive.ql.Driver.compile(Driver.java:307)
       at org.apache.hadoop.hive.ql.Driver.compileInternal(Driver.java:1110)
       at org.apache.hadoop.hive.ql.Driver.runInternal(Driver.java:1158)
       at org.apache.hadoop.hive.ql.Driver.run(Driver.java:1047)
       at org.apache.hadoop.hive.ql.Driver.run(Driver.java:1037)
       at org.apache.hadoop.hive.cli.CliDriver.processLocalCmd(CliDriver.java:207)
       at org.apache.hadoop.hive.cli.CliDriver.processCmd(CliDriver.java:159)
       at org.apache.hadoop.hive.cli.CliDriver.processLine(CliDriver.java:370)
       at org.apache.hadoop.hive.cli.CliDriver.executeDriver(CliDriver.java:756)
       at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:675)
       at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:615)
       at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
       at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
       at java.lang.reflect.Method.invoke(Method.java:606)
       at org.apache.hadoop.util.RunJar.run(RunJar.java:221)
       at org.apache.hadoop.util.RunJar.main(RunJar.java:136)
FAILED: ParseException line 1:0 cannot recognize input near 'hive' '>' 'load'
hive> Loading data to table default.departments
       > chgrp: changing ownership of
'hdfs://quickstart.cloudera:8020/user/hive/warehouse/departments/departments.txt': User
does not belong to hive
       > Table default.departments stats: [numFiles=1, totalSize=15]
       > OK
       > Time taken: 0.555 seconds
       > hive>
       > [cloudera@quickstart Desktop]$ hive
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4i.properties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> select * from employees;
```

OK 1

2

3

john

tim

jacob 2

2

1

```
4
      tom
             3
5
      liz
             1
Time taken: 3.118 seconds, Fetched: 5 row(s)
hive> select * from departments
      >;
OK
      1
hr
it
      2
qs
      3
Time taken: 0.151 seconds, Fetched: 3 row(s)
hive> select employees.emp_id, employees.emp_name, departments.dept_name from
employees join departments on employees.dept id = departments.dept id;
Query ID = cloudera 20250325232727 32129e88-1c69-48cc-b40d-97716630d68f
Total jobs = 1
Execution log at:
/tmp/cloudera/cloudera_20250325232727_32129e88-1c69-48cc-b40d-97716630d68f.log
2025-03-25 11:27:48 Starting to launch local task to process map join;
= 1013645312
2025-03-25 11:27:52 Dump the side-table for tag: 1 with group count: 3 into file:
file:/tmp/cloudera/2df66564-4086-4dbd-8395-5711558cbed5/hive 2025-03-25 23-27-33 91
8 9042112746110761413-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile01--.hashtable
2025-03-25 11:27:52 Uploaded 1 File to:
file:/tmp/cloudera/2df66564-4086-4dbd-8395-5711558cbed5/hive 2025-03-25 23-27-33 91
8 9042112746110761413-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile01--.hashtable
(326 bytes)
2025-03-25 11:27:52 End of local task; Time Taken: 4.325 sec.
Execution completed successfully
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_1742969079981_0001, Tracking URL =
http://quickstart.cloudera:8088/proxy/application_1742969079981_0001/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job 1742969079981 0001
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2025-03-25 23:28:23,562 Stage-3 map = 0%, reduce = 0%
2025-03-25 23:28:42,382 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 1.45 sec
MapReduce Total cumulative CPU time: 1 seconds 450 msec
Ended Job = job 1742969079981 0001
MapReduce Jobs Launched:
Stage-Stage-3: Map: 1 Cumulative CPU: 1.45 sec HDFS Read: 6098 HDFS Write: 48
SUCCESS
Total MapReduce CPU Time Spent: 1 seconds 450 msec
OK
1
      john
             it
2
      iacob it
3
      tim
             hr
4
      tom
             qs
5
      liz
             hr
```

Time taken: 69.673 seconds, Fetched: 5 row(s)

hive>

[cloudera@quickstart Desktop]\$ hdfs dfs -put employees.txt HIVE [cloudera@quickstart Desktop]\$ hdfs dfs -put departments.txt HIVE

put: `HIVE': File exists

[cloudera@quickstart Desktop]\$ hdfs dfs -put employees.txt HIVE/

put: `HIVE': File exists

[cloudera@quickstart Desktop]\$ hdfs dfs -put employees.txt HIVEJOIN/

put: `HIVEJOIN/': No such file or directory

[cloudera@quickstart Desktop]\$ hdfs dfs -mkdir HIVEJOIN

[cloudera@quickstart Desktop]\$ hdfs dfs -put employees.txt HIVEJOIN/ [cloudera@quickstart Desktop]\$ hdfs dfs -put departments.txt HIVEJOIN/

[cloudera@quickstart Desktop]\$

Employees.txt

1,john,2

2,jacob,2

3,tim,1

4,tom,3

5,liz,1

Departments.txt

hr,1

it,2

qs,3