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# **EXPERIMENT-3**

- hive
- show databases
- create database testing;
- use testing;
- create table posts (user string, post string, words bigint) row format delimited fields terminated by ',';
- show tables;
- load data local inpath '/home/cloudera/Desktop/DB/posts.txt' into table posts;
- select \* from posts;

```
[cloudera@quickstart ~]$ hive
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.p
NARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> show databases;
default
Time taken: 0.283 seconds, Fetched: 1 row(s)
hive> create database testing;
DΚ
Time taken: 0.054 seconds
hive> use testing;
DΚ
Time taken: 0.024 seconds
hive> create table posts(user string,post string,words bigint)
   > row format delimited
    > fields terminated by ',';
DK
Time taken: 0.116 seconds
hive> show tables;
DΚ
posts
Time taken: 0.021 seconds, Fetched: 1 row(s) hive> load data local inpath '/Desktop/DB/posts.txt' into table posts;
FAILED: SemanticException Line 1:23 Invalid path ''/Desktop/DB/posts.txt'': No f
iles matching path file:/Desktop/DB/posts.txt
hive> load data local inpath '/home/cloudera/Desktop/DB/posts.txt' into table posts;
Loading data to table testing.posts
Table testing.posts stats: [numFiles=1, totalSize=72]
DΚ
Time taken: 0.383 seconds
hive> select * from posts;
DΚ
user1
        funny_story
                         1550
user2
        funny_story1
                         1551
user3
        funny_story2
                         1552
                NUĹL
        NULL
Time taken: 0.179 seconds, Fetched: 4 row(s)
hive> select * from posts;
user1
        funny story
user2
        funny_story1
                         1551
user3
        funny_story2
                         1552
        NULL
                NULL
Time taken: 0.041 seconds, Fetched: 4 row(s)
hive>
```

# • select count (1) from posts;

## drop table posts;

```
hive> select count(1) from posts;
Query ID = cloudera_20240728232828_5558bade-ea6f-4a4a-8dec-1b210c253c17
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 | T222229410265_0001, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1722229410265_0001/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_17222229410265_0001/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_17222229410265_0001/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_17222229410265_0001/
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2024-07-28 23:28:23,397 Stage-1 map = 0%, reduce = 0%
2024-07-28 23:28:23,397 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 0.61 sec
2024-07-28 23:28:29,678 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 1.42 sec
MapReduce Total cumulative CPU time: 1 seconds 420 msec
Ended Job = job_1722229410265_0001
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 1.42 sec HDFS Read: 7508 HDFS Write: 2 SUCCESS
Total MapReduce CPU Time Spent: 1 seconds 420 msec

OK

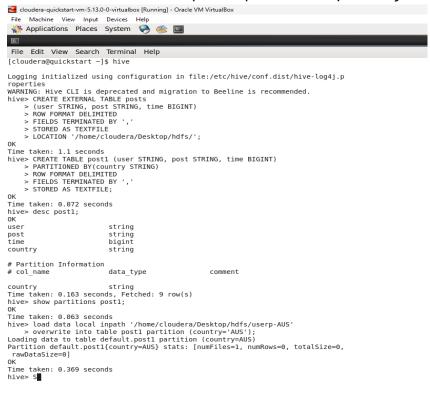
4

Time taken: 19.751 seconds, Fetched: 1 row(s)
hive> drop table posts;

OK

Time taken: 0.138 seconds
hive>
```

- CREATE EXTERNAL TABLE posts (user STRING, post STRING, time BIGINT) ROW FORMAT DELIMITED FIELDS TERMINATED BT ',' STORED AS TEXTFILE;
- CREATE TABLE posts1 (user STRING, post STRING, time BIGINT)
   PARTITIONED BY (country STRING)
   ROW FORMAT DELIMITED
   FIELDS TERMINATED BY ','
   STORED AS TEXTFILE;
- desc post1;
- show partitions post1;
- load data local inpath '/home/cloudera/Desktop/hdfs/userp-AUS' overwrite into table post1 partition (country='AUS')





 load data local inpath '/home/cloudera/Desktop/hdfs/userp-US' overwrite into table post1 partition (country='US')

```
hive> load data local inpath '/home/cloudera/Desktop/hdfs/userp-US' > overwrite into table post1 partition (country='US');
Loading data to table default.post1 partition (country=US)
Partition default.post1{country=US} stats: [numFiles=1, numRows=0, totalSize=66, rawDataSize=0]
OK
Time taken: 0.235 seconds
```

#### BUCKETING

CREATE TABLE post\_count (user STRING, count INT)
 CLUSTERED BY (user) INTO 5 BUCKETS;
 set hive.enforce.bucketing=true;
 insert overwrute table post\_cpunt
 select user, count(post) from posts group by user;

```
hive> CREATE TABLE post_count (user STRING, count INT)
    > CLUSTERED BY (user) INTO 5 BUCKETS;
FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.ql.exec.DDLTask. AlreadyExistsException(message:Ta
ble post count already exists)
hive> set hive.enforce.bucketing = true;
hive> insert overwrite table post count
hive> select user, count(post) from posts group by user;
Query ID = cloudera_20240804232626_6459d7c3-4bd3-49e5-9c7f-ad5ab1be13f5
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 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_1722834154938_0001, Tracking URL = http://quickstart.cloudera:8088/prox
y/application 1722834154938 0001/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1722834154938_0001
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2024-08-04 23:26:32,616 Stage-1 map = 0%, reduce = 0%
2024-08-04 23:26:39,020 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 0.66 sec 2024-08-04 23:26:46,336 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 1.46 sec
MapReduce Total cumulative CPU time: 1 seconds 460 msec
Ended Job = job 1722834154938 0001
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 1.46 sec HDFS Read: 7776 HDFS Write:
Total MapReduce CPU Time Spent: 1 seconds 460 msec
٥ĸ
user1
user2
        1
user3
        1
Time taken: 22.617 seconds, Fetched: 3 row(s)
hive>
```

## exit

```
hive> exit;
WARN: The method class org.apache.commons.logging.impl.SLF4JLogFactory#release() was invoked.
WARN: Please see http://www.slf4j.org/codes.html#release for an explanation.
[cloudera@quickstart ~]$ hdfs dfs -ls -R /user/hive/warehouse/post_count/
-rwxrwxrwx 1 cloudera supergroup 0 2024-08-04 23:34 /user/hive/warehouse/post_count/0000000_0
-rwxrwxrwx 1 cloudera supergroup 8 2024-08-04 23:34 /user/hive/warehouse/post_count/0000001_0
-rwxrwxrwx 1 cloudera supergroup 8 2024-08-04 23:34 /user/hive/warehouse/post_count/000002_0
-rwxrwxrwx 1 cloudera supergroup 8 2024-08-04 23:34 /user/hive/warehouse/post_count/000003_0
-rwxrwxrwx 1 cloudera supergroup 0 2024-08-04 23:34 /user/hive/warehouse/post_count/0000003_0
[cloudera@quickstart ~]$
```

## JOINS

```
[cloudera@quickstart ~]$ hive
```