Creating Database in ITV Hive

So in order to use hive we have to create our own hive warehouse directory after launching hive cli.

set hive.metastore.warehouse.dir=/user/Your_Username/warehouse;

Currently it is set to user/hive/warehouse. See below:

hive> set hive.metastore.warehouse.dir; hive.metastore.warehouse.dir=/user/hive/warehouse

Change to your user dedicated path: set hive.metastore.warehouse.dir=/user/<your-itv-username>/warehouse; hive>

set hive.metastore.warehouse.dir=/user/itv000197/warehouse; After that you can

create your own database & start using that db.

Also put this property in the .hiverc file. So that you don't have to set in every session.

[itv000197@g02 ~]\$ cat .hiverc
set hive.metastore.warehouse.dir=/user/itv000197/warehouse;
[itv000197@g02 ~]\$ ■

Refer:

https://discuss.itversity.com/t/unable-to-create-or-use-hive-database-getting-permission-deni ed-error/23169

Connecting Beeline

beeline

!connect jdbc:hive2://m02.itversity.com:10000/;auth=noSasl

Provide your lab username & password.

Problem 1 : TableSample does not work

```
itv622793@g02:~
                             1 itv622793@g02:~
hive> show partitions products_partitioned_buckets;
category=fashion
category=furniture
category=mobile
category=mobiles
category=toys
Time taken: 0.184 seconds, Fetched: 5 row(s)
hive> select * from products_partitioned_buckets TABLESAMPLE(bucket 1 out of 4);
OK
7
       makeup 100.0 fashion
10
       table 269.0 furniture
              7.99
6
       truck
                       toys
       doll
              8.99
                       toys
Time taken: 0.233 seconds, Fetched: 4 row(s)
hive>
```

Cloudera Image

Problem 2: map side join hint does not work

```
hive> set hive.auto.convert.join*false
hive> set hive.auto.convert.join*false
hive> set hive.ignore.mapjoin.hint;
hive ignore.mapjoin.hint*false
hive> set hive.ignore.mapjoin.hint;
hive ignore.mapjoin.hint*false
hive> set hive.ignore.mapjoin.hint;
hive ignore.mapjoin.hint*false
hive> select /*+ mapjoin(o) */ o.order_customer_id, o.order_customer_id = c.customer_id, c.customer_in, c.customer_lname, c.customer_state from orders o join customers c on (o.order_customer_id = c.customer_id) limit 5?

Ouery ID = itv000307_0201361604309_08139383-deb4-4164-a77c-942966bbc632

Total jobs = 1

Launching Job | 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*Cnumber>
In order to limit the maximum number of reducers:
set hive.exec.reducers.max=Cnumber>
In order to set a constant number of reducers:
set hive.exec.reducers.max=cnumber>
Starting Job = job list5503744169_16974, Tracking URL = http://m02.itversity.com:19088/proxy/application_1615503744169_16974

Kill Command = /opt/hadoop/bin/mapred job -kill job_l615503744169_16974

Maccommand = /opt/hadoop/bin/mapred job -kill job_l615503744169_16974

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MapReduce Det Time Spent: 0 seconds 120 msec

Ended Job = job_l615503744169_16974

MapReduce Det Time Spent: 0 seconds 120 msec

OK

2 57963 2013-10-29 00:00:00.0 COMPLETE 1 Richard Hernandez TX

2 57963 2013-00-00 00:00:00.0 COMPLETE 2 Mary Barrett CO

2 51862 2013-10-29 00:00:00.0 COMPLETE 2 Mary
```

Cloudera image

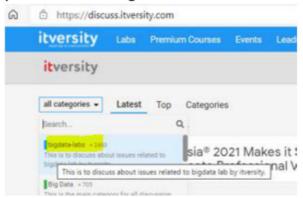
```
hive> set hive.ignore.mapjoin.hint=false;
hive> set hive.auto.convert.join=false;
hive> SELECT /*+ MAPJOIN(o) */ c.customer id, c.customer fname, c.customer lname
, o.order id, o.order date FROM orders o JOIN customers c ON (o.order customer i
d = c.customer_id) limit 5;
Query ID = cloudera_20210415110808_a44067a5-b98c-41c7-bb9d-642cf98bbfb4
Total jobs = 1
Execution log at: /tmp/cloudera/cloudera_20210415110808_a44067a5-b98c-41c7-bb9d-
642cf98bbfb4.log
2021-04-15 11:08:15
                          Starting to launch local task to process map join;
aximum memory = 1013645312
5_11-08-03_688_8471395495282544247-1/-local-10003/HashTable-Stage-1/MapJoin-o-10
  .hashtable
2021-04-15 11:08:20
                         End of local task; Time Taken: 4.846 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_1618506163761_0002, Tracking URL = http://quickstart.cloudera
:8088/proxy/application_1618506163761_0002/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1618506163761_0002
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 8
2021-04-15 11:08:40,144 Stage-1 map = 0%, reduce = 0%
2021-04-15 11:08:56,994 Stage-1 map = 100%, reduce = 0% Cumulative CPU 3.58 se
MapReduce Total cumulative CPU time: 3 seconds 580 msec
Ended Job = job 1618506163761 0002
MapReduce Jobs Launched:
```



Other Information:

You can search as well as post your queries as mentioned below.

 Web → <u>discuss.ITVersity.com</u>(<u>ITVersity</u>) → make sure to post your queries inside bigdata-labs.



ITV Slack - Join "labs-support channel".
 https://join.slack.com/t/itv-data-engineers/shared invite/zt-cmyt24hd-oxY8 YfCtLew~~Q kg3U2~w

You can also post a query in "labs-support channel" ITV Slack

Note: In case if you can't see the labs-support channel then you can search for that channel and join.

3. You can also email on support@itversity.com

