

We can see in the screenshot that the folder named 'nilam' is created in the HDFS.

4) **Import the data to the folder 'nilam' in the HDFS using the following two commands :**

- i) `hadoop distcp s3://nilamhivecs/2019-Oct.csv /tmp/nilam/2019-Oct.csv`
- ii) `hadoop distcp s3://nilamhivecs/2019-Nov.csv /tmp/nilam/2019-Nov.csv`

5) **Now we have imported the data in the HDFS. To see the imported data run the following command :**

`hadoop fs -ls /tmp/nilam`

```
hadoop@ip-172-31-6-164:~  
[hadoop@ip-172-31-6-164 ~]$ hadoop fs -ls /tmp/nilam  
Found 2 items  
-rw-r--r--  1 hadoop hadoop  545839412 2021-09-08 06:36 /tmp/nilam/2019-Nov.csv  
-rw-r--r--  1 hadoop hadoop  482542278 2021-09-08 06:33 /tmp/nilam/2019-Oct.csv
```

We can see both the files uploaded in the HDFS.

6) **Launch the hive service. For this run the command 'hive'.**

7) **Create the database named 'casestudy' using the following query :**

`create database if not exists casestudy ;`

8) **To see the created database run the following query :**

`show databases ;`

```
hive> show databases;  
OK  
2021-09-08 06:40:00,384 INFO  [904329ba-715b-415e-8790-56d96fb06cd1 main] lzo.GP  
INativeCodeLoader: Loaded native gpl library  
2021-09-08 06:40:00,388 INFO  [904329ba-715b-415e-8790-56d96fb06cd1 main] lzo.Lz  
oCodec: Successfully loaded & initialized native-lzo library [hadoop-lzo rev 702  
dcbb487699cf833043bee677ea99c0136673e]  
casestudy  
default  
Time taken: 0.171 seconds, Fetched: 2 row(s)
```

We can see in the screenshot above that the database named 'casestudy' has created.

9) **To use the database 'casestudy' run the command 'use casestudy;' .**

10) **Create the external table by using the following query**

`create table if not exists table2019 (event_time int , event_type string , product_id int
, category_id int , category_code string , brand string , price float , user_id int , user_session string)
row format serde 'org.apache.hadoop.hive.serde2.OpenCSVSerde' stored as textfile location
'/tmp/nilam/' tblproperties ("skip.header.line.count"="1");`

```
hive> create table if not exists table2019(event_time int, event_type string, product_id int, category_id int, category_code string, brand string, price float, user_id int, user_session string) row format serde 'org.apache.hadoop.hive.serde2.OpenCSVSerde' stored as textfile location '/tmp/nilam/' tblproperties("skip.header.line.count"="1");
OK
Time taken: 0.338 seconds
```

11) Describe the table 'table2019' by using the following query :

describe table2019;

```
hive> describe table2019;
OK
event_time          string              from deserializer
event_type           string              from deserializer
product_id           string              from deserializer
category_id          string              from deserializer
category_code        string              from deserializer
brand                string              from deserializer
price                string              from deserializer
user_id              string              from deserializer
user_session         string              from deserializer
Time taken: 0.101 seconds, Fetched: 9 row(s)
```

12) To show the headers for all the queries use the following query :

set hive.cli.print.header=true ;

13) Create the partitioning and bucketing using the following command :

create external table if not exists ext_table2019 (event_time timestamp,product_id string,category_id string,category_code string,brand string,price float,user_id bigint,user_session string) partitioned by (event_type string) clustered by (category_code) into 12 buckets row format serde 'org.apache.hadoop.hive.serde2.OpenCSVSerde' stored as textfile;

14) Set dynamic partitioning mode to nonstrict using the following command :

set hive.exec.dynamic.partition.mode=nonstrict ;

15) Load the data in the partitioned and bucketed table named 'ext_table2019' using the following command :

insert into ext_table2019 partition (event_type) select event_time, product_id, category_id, category_code, brand, price, user_id, user_session, event_type from table2019

```
hive> set hive.exec.dynamic.partition.mode=nonstrict;
hive> insert into ext_table2019 partition(event_type) select event_time, product
_id, category_id, category_code, brand, price, user_id, user_session, event_type
from table2019;
2021-09-06 10:35:04,103 INFO [8404347b-3b97-46fa-8a5b-4c2oddb1557 main] reducesink.VectorReduceSinkObjectHashOperator: VectorReduceSinkObjectHashOperator constructor vectorReduceSinkInfo
org.apache.hadoop.hive.q1.plan.VectorReduceSinkInfo@8333e01c6
Query ID = hadoop_20210906103503_bc4eaf17-9046-472a-b259-45db68ad3e65
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1631081627075_0020)

-----
VERTICES      MODE        STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 ..... container  SUCCEEDED    2         2         0         0         0         0
Reducer 2 ..... container  SUCCEEDED   11        11         0         0         0         0
-----
VERTICES: 02/02 [=====] 100% ELAPSED TIME: 116.57 s
-----

Loading data to table casestudy.ext_table2019 partition (event_type=null)

Loaded : 4/4 partitions.
Time taken to load dynamic partitions: 1.93 seconds
Time taken for adding to write entity : 0.003 seconds

OK
Time taken: 120.95 seconds
```

Query Optimization

We have created the partitioned and bucketed table named 'ext_table2019' to optimize the queries. Let's see how we can optimize queries through the example.

Q. Fetch the first 10 rows.

First we will fetch the first 10 rows of the table 'table2019'.

```
hadoop@ip-172-31-6-164:~
hive> select * from table2019 limit 10;
OK
table2019.event_time    table2019.event_type    table2019.product_id    table201
9.category_id    table2019.category_code    table2019.brand    table2019.price    table201
9.user_id    table2019.user_session
2019-11-01 00:00:02 UTC view 5802432 1487580009286598681 0
.32 562076640 09fafd6c-6c99-46b1-834f-33527f4de241
2019-11-01 00:00:09 UTC cart 5844397 1487580006317032337 2
.38 553329724 2067216c-31b5-455d-a1cc-af0575a34ffb
2019-11-01 00:00:10 UTC view 5837166 1783999064103190764 pnb 2
2.22 556138645 57ed222e-a54a-4907-9944-5a875c2d7f4f
2019-11-01 00:00:11 UTC cart 5876812 1487580010100293687 jessnail
3.16 564506666 186c1951-8052-4b37-adce-dd9644b1d5f7
2019-11-01 00:00:24 UTC remove_from_cart 5826182 1487580007483048900 3
.33 553329724 2067216c-31b5-455d-a1cc-af0575a34ffb
2019-11-01 00:00:24 UTC remove_from_cart 5826182 1487580007483048900 3
.33 553329724 2067216c-31b5-455d-a1cc-af0575a34ffb
2019-11-01 00:00:25 UTC view 5856189 1487580009026551821 runail 1
5.71 562076640 09fafd6c-6c99-46b1-834f-33527f4de241
2019-11-01 00:00:32 UTC view 5837835 1933472286753424063 3
.49 514649199 432a4e95-375c-4b40-bd36-0fc039e77580
2019-11-01 00:00:34 UTC remove_from_cart 5870838 1487580007675986893 m
ilv 0.79 429913900 2f0bff3c-252f-4fe6-afcd-5d8a6a92839a
2019-11-01 00:00:37 UTC view 5870803 1487580007675986893 milv 0
.79 429913900 2f0bff3c-252f-4fe6-afcd-5d8a6a92839a
Time taken: 0.267 seconds, Fetched: 10 row(s)
```

Here we can see that the time taken to execute the query in the table 'table2019' is 0.267 seconds.

Now, we will fetch the first 10 rows of the partitioned and bucketed table 'ext_table2019' .

```
hive> select * from ext_table2019 limit 10;
OK
ext_table2019.event_time      ext_table2019.product_id      ext_table2019.ca
tegrory_id      ext_table2019.category_code      ext table2019.brand      ext tabl
e2019.price      ext_table2019.user_id      ext_table2019.user_session      ext_tabl
e2019.event_type
2019-10-10 14:45:40 UTC 5858495 1487580005754995573      4.60 5
51819168      7e09bf98-aadb-4f3d-98dd-470be176cbc7      cart
2019-10-07 20:53:08 UTC 5635080 1487580005754995573      4.44 5
27827629      b5f0f964-9457-4dfd-bade-239a9cde9c5d      cart
2019-10-10 14:45:41 UTC 5762728 1487580013950664926      4.44 5
49261009      723a7bea-e6a4-c6b6-63e6-c7076529b77d      cart
2019-10-01 00:00:03 UTC 5773353 1487580005134238553      runail 2.62 4
63240011      26dd6e6e-4dac-4778-8d2c-92e149dab885      cart
2019-10-09 04:44:26 UTC 5861326 1487580008145748965      0.70 5
53450358      ae5665f5-110f-46ca-99d1-8c81355a8b07      cart
2019-10-01 00:00:07 UTC 5881589 2151191071051219817      lovely 13.48 4
29681830      49e8d843-adf3-428b-a2c3-fe8bc6a307c9      cart
2019-10-08 10:53:30 UTC 5850320 1487580005754995573      4.44 4
17575049      dbbdfb29-4006-42a1-a8a5-f9a6d33f1c4f      cart
2019-10-01 00:00:07 UTC 5723490 1487580005134238553      runail 2.62 4
63240011      26dd6e6e-4dac-4778-8d2c-92e149dab885      cart
2019-10-09 04:44:27 UTC 5670326 1487580005754995573      4.44 5
57576916      01782ae8-e912-4eeb-88a2-369195c20147      cart
2019-10-01 00:00:15 UTC 5881449 1487580013522845895      lovely 0.56 4
29681830      49e8d843-adf3-428b-a2c3-fe8bc6a307c9      cart
Time taken: 0.233 seconds, Fetched: 10 row(s)
```

Here we can see that the time taken to execute the query in the partitioned and bucketed table 'ext_table2019' is 0.233 seconds.

From this example, we can conclude that the partitioned and bucketed table 'ext_table2019' takes less time as compared to table 'table2019' to execute the query. So now onwards, we will perform all the queries on the partitioned and bucketed table 'ext_table2019'.

Questions and Answers

1) Find the total revenue generated due to purchases made in October.

Answer : *select sum(price) as revenue from ext_table2019 where month(event_time)=10 and event_type = 'purchase';*

```
hive> select sum(price) as revenue from ext_table2019 where month(event_time)=10
and event_type='purchase';
Query ID = hadoop_20210908094126_031a87c4-e35e-468d-ac27-97a1831ce8d6
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1631081627075_0016)

-----
VERTICES      MODE        STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 ..... container    SUCCEEDED    3         3         0         0         0         0
Reducer 2 ..... container    SUCCEEDED    1         1         0         0         0         0
-----
VERTICES: 02/02  [=====>>] 100%  ELAPSED TIME: 20.84 s
-----
OK
1211538.4299996966
Time taken: 22.311 seconds, Fetched: 1 row(s)
hive> -
```

The total revenue generated due to the purchases made in October month is 1211538.4299996966.

2) Write a query to yield the total sum of purchases per month in a single output.

Answer : *select month(event_time), sum(price) from ext_table2019 where year(event_time)=2019 and event_type='purchase' group by month(event_time);*

```
hive> select month(event_time), sum(price) from ext_table2019 where year(event_t
ime)=2019 and event_type='purchase' group by month(event_time);
Query ID = hadoop_20210908094451_01a7db19-2679-48d0-8ad0-456b57db05ae
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1631081627075_0016)

-----
VERTICES      MODE        STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 ..... container    SUCCEEDED    3         3         0         0         0         0
Reducer 2 ..... container    SUCCEEDED    4         4         0         0         0         0
-----
VERTICES: 02/02  [=====>>] 100%  ELAPSED TIME: 25.29 s
-----
OK
10      1211538.4299996966
11      1531016.8999998341
Time taken: 26.286 seconds, Fetched: 2 row(s)
hive> -
```

The total sum of purchases in the month of October is 1211538.4299996966 and the total sum of purchases in the month of November is 1531016.8999998341.

3) Write a query to find the change in revenue generated due to purchases from October to November.

Answer : *select sum(case when month(from_unixtime(unix_timestamp(event_time,'yyyy-MM-dd HH:mm:ss'))) = 10 then cast (price as float) else - 1 * cast(price as float)end) as change_in_revenue from ext_table2019 where month(from_unixtime(unix_timestamp(event_time, 'yyyy-MM-dd HH:mm:ss'))) IN (10, 11) and event_type = 'purchase';*

```
hive> select sum(case when month(from_unixtime(unix_timestamp(event_time,'yyyy-MM-dd HH:mm:ss'))) = 10 then cast(price as float) else - 1 * cast(price as float)end) as change_in_revenue from ext_table2019 where month(from_unixtime(unix_timestamp(event_time, 'yyyy-MM-dd HH:mm:ss'))) IN (10,11) and event_type = 'purchase';
2021-09-08 10:30:07.401 INFO [8404347b-3b97-46fa-8a5b-4c2c0dbb1557 main] reducesink.VectorReduceSinkEmptyKeyOperator: VectorReduceSinkEmptyKeyOperator constructor vectorReduceSinkInfo org.apache.hadoop.hive.q1.plan.VectorReduceSinkInfo@0321c01c2
Query ID = hadoop_20210908103007_c75414ce-5f9c-48f2-9e3c-03e372969277
Total jobs = 1
Launching Job 1 out of 1
Tez session was closed. Reopening...
2021-09-08 10:30:07.575 INFO [8404347b-3b97-46fa-8a5b-4c2c0dbb1557 main] client.RMProxy: Connecting to ResourceManager at ip-172-31-6-164.ec2.internal/172.31.6.164:8032
2021-09-08 10:30:07.575 INFO [8404347b-3b97-46fa-8a5b-4c2c0dbb1557 main] client.AHSProxy: Connecting to Application History server at ip-172-31-6-164.ec2.internal/172.31.6.164:10200
Session re-established.
Session re-established.
Status: Running (Executing on YARN cluster with App id application_1631001627075_0020)

-----
      VERTICES      MODE      STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
-----
Map 1 ..... container SUCCEEDED      3          3          0          0          0          0
Reducer 2 ..... container SUCCEEDED      1          1          0          0          0          0
-----
VERTICES: 02/02 [=====] 100% ELAPSED TIME: 32.78 s
-----
OK
-319478.469592195
Time taken: 43.877 seconds, Fetched: 1 row(s)
```

The change in revenue generated due to purchases from October to November is 319478.469592195 . The negative sign indicates that the revenue of November is less than the revenue of October .

4) Find distinct categories of products. Categories with null category code can be ignored.

Answer : *select distinct(category_code) from ext_table2019*

```

hive> select distinct(category_code) from ext_table2019;
Query ID = hadoop_20210908095953_eb768e11-6e0d-454c-8871-dab12f4b9ea7
Total jobs = 1
Launching Job 1 out of 1
Ter session was closed. Reopening...
2021-09-08 09:59:53,992 INFO [8404347b-3b97-46fa-8a5b-4c2c8ddb1557 main] client.FWProxy: Connecting to ResourceManager at ip-172-31-6-164.ec2.internal/172.31.6.164:8032
2021-09-08 09:59:53,992 INFO [8404347b-3b97-46fa-8a5b-4c2c8ddb1557 main] client.AHSProxy: Connecting to Application History server at ip-172-31-6-164.ec2.internal/172.31.6.164:10200
Session re-established.
Session re-established.
Status: Running (Executing on YARN cluster with App id application_1631081627075_0018)

-----
VERTICES      MODE        STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 ..... container  SUCCEEDED  10      10          0         0         0         0
Reducer 2 ..... container  SUCCEEDED  11      11          0         0         0         0
-----
VERTICES: 02/02 [=====>>>] 100% ELAPSED TIME: 55.46 s
-----
OK

appliances.environment.vacuum
furniture.living_room.cabinet
appliances.personal.hair_cutter
furniture.bathroom.bath
stationery.cartridge
accessories.cosmetic_bag
apparel.glove
appliances.environment.air_conditioner
sport.diving
furniture.living_room.chair
accessories.bag
Time taken: 66.626 seconds, Fetched: 12 row(s)
hive>

```

The distinct categories of the products are as follows :

- i) Appliances.environment.vacuum
- ii) Furniture.living_room.cabinet
- iii) Appliances.person.hair_cutter
- iv) Furniture.bathroom.bath
- v) Stationary.cartridge
- vi) Accessories.cosmetic_bag
- vii) Apparel.glove
- viii) Appliances.environment.air_conditioner
- ix) Sport.diving
- x) Furniture.living_room.chair
- xi) Accessories.bag

5) Find the total number of products available under each category.

Answer : *select category_code ,count(product_id) as total_order from ext_table2019 group by category_code;*


```
hive> select category_code, count(product_id) as total_order from ext_table2019
group by category_code ;
Query ID = hadoop_20210908100316_9ab00aff-d5e7-4d56-95df-3bd487f7fee5
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1631081627075_0018)
```

| | VERTICES | MODE | STATUS | TOTAL | COMPLETED | RUNNING | PENDING | FAILED | KILLED |
|-----------------|-----------|-----------|--------|-------|-----------|---------|---------|--------|--------|
| Map 1 | container | SUCCEEDED | 10 | 10 | 0 | 0 | 0 | 0 | 0 |
| Reducer 2 | container | SUCCEEDED | 11 | 11 | 0 | 0 | 0 | 0 | 0 |

VERTICES: 02/02 [=====>>>] 100% ELAPSED TIME: 48.71 s

```
OK
8594895
appliances.environment.vacuum 59761
furniture.living_room.cabinet 13439
appliances.personal.hair_cutter 1643
furniture.bathroom.bath 9857
stationery.cartridge 26722
accessories.cosmetic_bag 1248
apparel.glove 18232
appliances.environment.air_conditioner 332
sport.diving 2
furniture.living_room.chair 308
accessories.bag 11681
Time taken: 49.717 seconds, Fetched: 12 row(s)
```

- i) Appliances.environment.vacuum -59761
- ii) Furniture.living_room.cabinet – 13439
- iii) Appliances.person.hair_cutter - 1643
- iv) Furniture.bathroom.bath – 9857
- v) Stationary.cartridge – 26722
- vi) Accessories.cosmetic_bag – 1248
- vii) Apparel.glove – 18232
- viii) Appliances.environment.air_conditioner -332
- ix) Sport.diving – 2
- x) Furniture.living_room.chair – 308
- xi) Accessories.bag -11681

6) Which brand had the maximum sales in October and November combined?

Answer : *select brand, sum(price) as sales from ext_table2019 where brand is not null and event_type='purchase' group by brand order by sales desc limit 1;*

```
hive> select brand, sum(price) as sales from ext_table2019 where brand is not null
and event_type = 'purchase' group by brand order by sales desc limit 1;
2021-09-08 10:15:24,820 INFO [8404347b-3b97-46fa-8a5b-4c2cdddb1557 main] reducesink.VectorReduceSinkObjectHashOperator: VectorReduceSinkObjectHashOperator constructor vectorReduceSinkInfo
org.apache.hadoop.hive.q1.plan.VectorReduceSinkInfo@285ac29
Query ID = hadoop_20210908101524_110416eb-915d-4da6-9f68-872de08a9a9a
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1631081627075_0019)
```

| | VERTICES | MODE | STATUS | TOTAL | COMPLETED | RUNNING | PENDING | FAILED | KILLED |
|-----------------|-----------|-----------|--------|-------|-----------|---------|---------|--------|--------|
| Map 1 | container | SUCCEEDED | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| Reducer 2 | container | SUCCEEDED | 6 | 6 | 0 | 0 | 0 | 0 | 0 |
| Reducer 3 | container | SUCCEEDED | 1 | 1 | 0 | 0 | 0 | 0 | 0 |

VERTICES: 03/03 [=====>>>] 100% ELAPSED TIME: 24.92 s

```
OK
1094188.300000023
Time taken: 26.467 seconds, Fetched: 1 row(s)
```

7) Which brands increased their sales from October to November?

Answer : *select a.brand from(select brand, sum(price) as sales from ext_table2019 where brand <>' and month(event_time)=10 group by brand) as a inner join (select brand,sum(price) as sales from ext_table2019 where brand !=' and month(event_time)=11 group by brand) as b on a.brand=b.brand where b.sales-a.sales>0 limit 5;*

```
hive> select a.brand from(select brand, sum(price) as sales from ext_table2019 where brand <>' and month(event_time) = 10 group by brand) as a inner join(select brand, sum(price) as sales from ext_table2019 where brand !=' and month(event_time) = 11 group by brand) as b on a.brand=b.brand where b.sales-a.sales>0 limit 5 ;
2021-09-08 10:10:57,548 INFO [8404347b-3b97-46fa-8a5b-4c2cdddb1557 main] reducesink.VectorReduceSinkObjectHashOperator: VectorReduceSinkObjectHashOperator constructor vectorReduceSinkInfo
org.apache.hadoop.hive.q1.plan.VectorReduceSinkInfo@7cc7e441
2021-09-08 10:10:57,551 INFO [8404347b-3b97-46fa-8a5b-4c2cdddb1557 main] reducesink.VectorReduceSinkObjectHashOperator: VectorReduceSinkObjectHashOperator constructor vectorReduceSinkInfo
org.apache.hadoop.hive.q1.plan.VectorReduceSinkInfo@82319c1e0
Query ID = hadoop_20210908101057_d3bdad88-9990-4764-8eb8-a371d7e05668
Total jobs = 1
Launching Job 1 out of 1
Ter session was closed. Reopening...
2021-09-08 10:10:57,807 INFO [8404347b-3b97-46fa-8a5b-4c2cdddb1557 main] client.RMProxy: Connecting to ResourceManager at ip-172-31-6-164.ec2.internal/172.31.6.164:8032
2021-09-08 10:10:57,807 INFO [8404347b-3b97-46fa-8a5b-4c2cdddb1557 main] client.AHSProxy: Connecting to Application History server at ip-172-31-6-164.ec2.internal/172.31.6.164:10200
Session re-established.
Session re-established.
Status: Running (Executing on YARN cluster with App id application_1621081627075_0019)

-----
VERTICES      MODE      STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 ..... container  SUCCEEDED  10      10          0         0         0         0
Reducer 2 ..... container  SUCCEEDED  22      22          0         0         0         0
Reducer 4 ..... container  SUCCEEDED  22      22          0         0         0         0
Reducer 3 ..... container  SUCCEEDED  22      22          0         0         0         0
-----
VERTICES: 04/04 [=====] 100% ELAPSED TIME: 65.42 s
-----
OK
consly
kamill
uno
concept
de.lux
Time taken: 76.817 seconds, Fetched: 5 row(s)
hive>
```

The following top 5 brands increased their sales from October to November:

- 1) Consly
- 2) Kamill
- 3) Uno
- 4) Concept
- 5) De.lux

8) Your company wants to reward the top 10 users of its website with a Golden Customer plan. Write a query to generate a list of top 10 users who spend the most.

Answer : *select user_id, sum(price) as spend from ext_table2019 group by user_id order by spend limit 10;*

```

hive> select user_id, sum(price) as spend from ext_table2019 group by user_id or
der by spend limit 10;
2021-09-08 09:36:24,484 INFO [8404347b-3b97-46fa-8a5b-4c2cdddb1557 main] reducesink.VectorReduceSinkObjectHashOperator: VectorReduceSinkObjectHashOperator constructor vectorReduceSinkInfo
org.apache.hadoop.hive.ql.plan.VectorReduceSinkInfo@7a47f0be
Query ID = hadoop_20210908093620_41cc7217-aa20-44ba-9dbc-5cf236fa56c1
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1631081627075_0016)

-----
VERTICES    MODE        STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 ..... container  SUCCEEDED   9         9         0         0         0         0
Reducer 2 ..... container  SUCCEEDED  11        11         0         0         0         0
Reducer 3 ..... container  SUCCEEDED   1         1         0         0         0         0
-----
VERTICES: 03/03 [=====>>>] 100% ELAPSED TIME: 100.46 s
-----
OK
389151875      0.0
577994427      0.0
521380715      0.0
449161064      0.0
347066214      0.0
523419409      0.0
526562511      0.0
578273891      0.0
482884551      0.0
487528718      0.0
Time taken: 106.8 seconds, Fetched: 10 row(s)
hive>

```