

DSC 650

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Final Project

06/01/24

Interpreting Sales Data

Interpreting sales data can provide key insights into a business. Having these key insights can help influence business decisions and can help to ensure the longevity of a company. The data that comes from a company can show a lot about the current customer base, the success of current methods, and more. Even a small amount of data can have key insights into the business and the customers.

For the final project, I decided to generate my own data. I did this because I felt as though sales data can often be random depending on industry, company, as well as products. In addition, I felt as though generating data can be a useful skill to practice and showcase. In addition, I felt a lot of the datasets provided an abundance of information which is not always the case. I wanted to show the insights I could make based on minimum data. To do this, I generated the table `gensales_data` which included basic information regarding sales data for a company. The table included information such as the total sale price of the transaction (between 1 and 1500), the total number of items that were in the transaction (between 1 and 25), and either a 1 or a 2 for method of payment (1 being card and 2 being cash). The data was generated using Spark and uploaded into a hive table. This was done to showcase how the two tools can be used in conjunction.

Using Hive, the data was visualized to confirm the data was uploaded correctly. I checked to make sure there were no missing values and after seeing that the data was uploaded, I

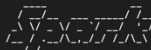
checked the average total sales, and number of products, and the percentage of card and cash transactions. The average total selling price was \$787.95 and the average number of items sold was 12.488 which we will say is 13 since you can not have 0.488 of an item. This tells me that it is likely that a significant amount of the transactions contains higher-value items, and it is something that should be explored.

To confirm this, I added a new column and divided the total selling price and the number of items to get an average price per item. Originally, I made a mistake and divided the number of items by the total instead of the total by the number of items. To correct this, I added the columns I wanted to keep to a new table and deleted the original. I renamed the new table back to `gensales_data` and reformed the calculation. I created a new column with the correct calculation dividing the total by the number of items. This showed the average spent on each item. I then performed a calculation to calculate the average, average price per item. The average of the average price per item is \$122.50. This shows that again it is likely that a significant number of the transactions do contain high-value items. I then calculated the number of transactions where the average price per item was above \$100. The number of transactions with a price per item of above \$100 is 146. There are 500 transactions in the table which means that 29.2% of the data contains a price per item above \$100.

For the type of payment in the transactions, it appears all of the transactions were paid with a card. This is not unusual with online realtors. However, if this is not an online realtor, I would recommend that the business has a card-forward POS system that is highly accessible to customers. This will improve customer experience since it appears that the current customer base prefers to pay with a card. However, it is important not to alienate cash payments in case new

The screenshots below showcase the code used to perform the analysis with breaks between lengthy sections of output.

```

 version 3.0.0
Using Python version 3.7.10 (default, Mar 2 2021 09:06:08)
SparkSession available as 'spark'.
>>> val spark = SparkSession.builder
File <stdin>, line 1
val spark = SparkSession.builder
^
SyntaxError: invalid syntax
>>> .appName("GenerateSalesData")
File <stdin>, line 1
.appName("GenerateSalesData")
^
IndentationError: unexpected indent
>>> .enableHiveSupport()
File <stdin>, line 1
.enableHiveSupport()
^
IndentationError: unexpected indent
>>> spark = SparkSession.builder \
... .appName("GenerateSalesData") \
... .enableHiveSupport() \
... .getOrCreate()
>>> sales_data = spark.range(500).selectExpr(
... f"CAST((RAND() * 1498 + 10) AS FLOAT) AS amount_spent",
... f"CAST(RAND() * 24 + 1) AS INT) AS number_of_items",
... f"CAST((RAND() * 1 + 1) AS INT) AS payment_method"
... )
>>> sales_data.write.mode("overwrite").saveAsTable("gensales_data")
208332 [Thread-4] WARN org.apache.hadoop.hive.conf.HiveConf - HiveConf of name hive.strict.managed.tables does not exist
208332 [Thread-4] WARN org.apache.hadoop.hive.conf.HiveConf - HiveConf of name hive.create.as.insert.only does not exist
208368 [Thread-4] WARN org.apache.spark.sql.hive.client.HiveClientImpl - Detected HiveConf hive.execution.engine is 'tez' and will be reset to 'mr' to disable useless hive logic
2205 [Thread-4] WARN org.apache.hadoop.hive.ql.session.SessionState - METASTORE_FILTER_HOOK will be ignored, since hive.security.authorization.manager is set to instance of HiveAuthorizerFactory.
>>> hive -e "SELECT * FROM gensales_data;"
File <stdin>, line 1
hive -e "SELECT * FROM gensales_data;"
^
SyntaxError: invalid syntax
>>> exit
Use exit() or Ctrl-D (i.e. EOF) to exit
>>> exit()
bash-5.0# huve
bash: huve: command not found
bash-5.0# huve
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/program/hive/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/program/hadoop/share/hadoop/lib/slf4j-log4j12-1.7.25-jar/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/program/tez/lib/slf4j-log4j12-1.7.10.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.Log4jLoggerFactory]
Hive Session ID = d3e865fb-ef1a-4adc-b5fc-4bae01fde0b7

Logging initialized using configuration in file:/usr/program/hive/conf/hive-log4j2.properties Async: true
Hive Session ID = a902208-7ed3-4d38-9489-c79af0ac915a
2024-06-01 16:49:46 INFO INFO [tez-session start thread] client.RMPProxy: Connecting to ResourceManager at master/172.28.1.1:8032
hive> 2024-06-01 16:49:49,387 INFO [pool-7-thread-1] client.RMPProxy: Connecting to ResourceManager at master/172.28.1.1:8032

> SHOW TABLES LIKE 'gensales_data';
OK
gensales_data

```

```

bash-5.0# hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/program/hive/lib/loq4j-slf4j-impl-2.10.0.jar/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/program/hadoop/share/hadoop/common/lib/slf4j-log4j12-1.7.26.jar/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/program/tez/lib/slf4j-log4j12-1.7.10.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.Log4jLoggerFactory]
Hive Session ID = d3e855fb-ef1a-4adc-b5fc-4bae01f1d0b9

Logging initialized using configuration in file:/usr/program/hive/conf/hive-log4j2.properties Async: true
Hive Session ID = a9752288-7e1b-4d30-94d9-279afac915a
2024-06-01 16:49:48,368 INFO [Tex session start thread] client.RMPProxy: Connecting to ResourceManager at master/172.28.1.1:8032
hive> 2024-06-01 16:49:49,387 INFO [pool-7-thread-1] client.RMPProxy: Connecting to ResourceManager at master/172.28.1.1:8032

> SHOW TABLES LIKE 'gensales_data';
OK
gensales_data
Time taken: 1.315 seconds, Fetched: 1 row(s)
hive> *SELECT * FROM gensales_data;
> SELECT * FROM gensales_data;
NoViableAltException(3790[])
    at org.apache.hadoop.hive ql.parse.HiveParser.statement(HiveParser.java:1387)
    at org.apache.hadoop.hive ql.parse.ParseDriver.parse(ParseDriver.java:226)
    at org.apache.hadoop.hive ql.parse.ParseUtils.parse(ParseUtils.java:74)
    at org.apache.hadoop.hive ql.parse.ParseUtils.parse(ParseUtils.java:67)
    at org.apache.hadoop.hive ql.Driver.compile(Driver.java:616)
    at org.apache.hadoop.hive ql.Driver.compileInternal(Driver.java:1826)
    at org.apache.hadoop.hive ql.Driver.compileAndRespond(Driver.java:1773)
    at org.apache.hadoop.hive ql.Driver.compileAndRespond(Driver.java:1768)
    at org.apache.hadoop.hive ql.rexec.ReExecDriver.compileAndRespond(ReExecDriver.java:126)
    at org.apache.hadoop.hive ql.rexec.ReExecDriver.run(ReExecDriver.java:214)
    at org.apache.hadoop.hive cli.CliDriver.processLocalCmd(CliDriver.java:239)
    at org.apache.hadoop.hive cli.CliDriver.processCmd(CliDriver.java:188)
    at org.apache.hadoop.hive cli.CliDriver.processLine(CliDriver.java:402)
    at org.apache.hadoop.hive cli.CliDriver.executeDriver(CliDriver.java:821)
    at org.apache.hadoop.hive cli.CliDriver.run(CliDriver.java:757)
    at org.apache.hadoop.hive cli.CliDriver.main(CliDriver.java:683)
    at sun.reflect.NativeMethodAccessorImpl.invoke(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.apache.hadoop.util.RunJar.run(RunJar.java:323)
    at org.apache.hadoop.util.RunJar.main(RunJar.java:236)
FAILED: ParseException line 1:0 cannot recognize input near 'SELECT * FROM gensales_data;' 'SELECT' '*'
hive> SELECT * FROM gensales_data;
OK
298.76892      5      1
47.37617      20     1
1442.7307      6      1
449.16207      6      1
871.92334     10     1
1246.7609      4      1
1899.3108      3      1
649.4959      3      1
142.94347      7      1
838.36456     22     1
1328.1687     19     1
210.18266     19     1
817.43195     15     1
213.78856     19     1
1493.339      24     1
648.3966      21     1
1017.68756    16     1
1372.7261     1      1
426.18167     16     1

```

```

1248.2864      5      1
620.4892     15     1
1408.1014     12     1
1345.389      28     1
472.94693     9      1
Time taken: 2.885 seconds, Fetched: 500 row(s)
hive> SELECT
> SUM(CASE WHEN amount_spent IS NULL THEN 1 ELSE 0 END) AS null_amount_spent,
> SUM(CASE WHEN number_of_items IS NULL THEN 1 ELSE 0 END) AS null_number_of_items,
> SUM(CASE WHEN payment_method IS NULL THEN 1 ELSE 0 END) AS null_payment_method
> FROM
> gensales_data;
2024-06-01 16:52:18,375 INFO [d3e855fb-ef1a-4adc-b5fc-4bae01f1d0b9 main] reducesink.VectorReduceSinkEmptyKeyOperator: VectorReduceSinkEmptyKeyOperator constructor vectorReduceSinkInfo org.apache.hadoop.hive.
ql.plan.VectorReduceSinkInfo0758ebec4
Query ID = root_20240601165217_65293c30-c08e-41c7-8adc-5af838397966
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1717258132785_0816)

-----
VERTICES      MODE      STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 ..... container  SUCCEEDED  2      2      0      0      0      0
Reducer 2 ..... container  SUCCEEDED  1      1      0      0      0      0
-----
VERTICES: 02/02 [=====] 100% ELAPSED TIME: 9.29 s
-----
OK
0      0
Time taken: 13.726 seconds, Fetched: 1 row(s)
hive> SELECT
> AVG(amount_spent) AS avg_amount_spent,
> AVG(number_of_items) AS avg_number_of_items,
> (COUNT(CASE WHEN payment_method = 1 THEN 1 END) / COUNT(*)) * 100 AS percentage_payment_method_1,
> (COUNT(CASE WHEN payment_method = 2 THEN 1 END) / COUNT(*)) * 100 AS percentage_payment_method_2,
> number_of_items / amount_spent AS items_per_amount
> FROM
> gensales_data;
FAILED: SemanticException [Error 10025]: Line 6:2 Expression not in GROUP BY key 'amount_spent'
hive> SELECT
> AVG(amount_spent),
> AVG(number_of_items),
> (COUNT(CASE WHEN payment_method = 1 THEN 1 END) / COUNT(*)) * 100 AS percentage_payment_method_1,
> (COUNT(CASE WHEN payment_method = 2 THEN 1 END) / COUNT(*)) * 100 AS percentage_payment_method_2,
> AVG(number_of_items / amount_spent)
> FROM
> gensales_data;
2024-06-01 16:55:56,735 INFO [d3e855fb-ef1a-4adc-b5fc-4bae01f1d0b9 main] reducesink.VectorReduceSinkEmptyKeyOperator: VectorReduceSinkEmptyKeyOperator constructor vectorReduceSinkInfo org.apache.hadoop.hive.
ql.plan.VectorReduceSinkInfo024e31f06
Query ID = root_20240601165556_e9b0fd1-42eb-4577-ab51-9edc4ee486d8
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1717258132785_0816)

-----
VERTICES      MODE      STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 ..... container  SUCCEEDED  2      2      0      0      0      0
Reducer 2 ..... container  SUCCEEDED  1      1      0      0      0      0
-----
VERTICES: 02/02 [=====] 100% ELAPSED TIME: 9.39 s
-----
OK
787.9480350189209    12.488  100.0  0.0  0.04505173621108595
Time taken: 10.583 seconds, Fetched: 1 row(s)

```

```
hive> SELECT
>   amount_spent,
>   number_of_items,
>   payment_method,
>   number_of_items / amount_spent AS items_per_amount
> FROM
>   gensales_data;
```

```
OK
298.76892      5      1      0.01673534176581472
47.37617       28      1      0.42215315274628413
1442.7387      6      1      0.0046158789253577971
449.16257      6      1      0.0133581924206458916
871.92334      18      1      0.011468898173768368
1246.7689      4      1      0.003208313730942437
1099.3188      3      1      0.0027515890419361057
649.4959       3      1      0.004618966726092135
142.94347      7      1      0.04897840897879876
838.36456     22      1      0.02624156717882113
1328.1687     19      1      0.014308411641784082
210.18256     10      1      0.04757768762108237
817.43195     15      1      0.018358151443256284
213.78856     19      1      0.00887285866582688
1493.339      24      1      0.01607136778192616
668.3966      21      1      0.03141847198358479
1017.68256    16      1      0.015721994941617974
1372.7251      1      1      7.284779754572845-4
426.18167     16      1      0.437542676940883757
1438.9019     12      1      0.008339693186434018
527.8639      16      1      0.03835685924981428
1078.8181     18      1      0.009338561116634227
1112.9349     12      1      0.01978298144612117
696.6449       2      1      0.0028709031061440377
1421.6984     17      1      0.011957596144084956
154.2514      23      1      0.140644286261731
1259.8485      1      1      7.937462254179287E-4
834.5848      13      1      0.015577349712056867
582.46814     11      1      0.0017188556685428674
917.46584      2      1      0.0021794444757785856
215.92921     24      1      0.11114753535351965
517.0291       8      1      0.0154738164683876471
1335.2513      2      1      0.001497845338875166
407.46382      3      1      0.00736423245130223
1329.8596      9      1      0.006767631613498181
886.7329       4      1      0.004510941179984066
1139.4746     22      1      0.019387143677441883
54.417088      7      1      0.12863086478264243
916.2749      14      1      0.01527925731043879
560.2799      14      1      0.024987510384489998
1443.821       21      1      0.014544738819163221
471.61487      4      1      0.008483151079763296
1100.4382     13      1      0.01181347541096354
391.12668     24      1      0.06136119401028632
976.12195     12      1      0.012293545925985824
1419.3025     23      1      0.0122881431328655978
945.9229       8      1      0.008457348789692296
726.5861      22      1      0.03027858553321561
1495.4683     18      1      0.012836363766968542
1374.85995     7      1      0.018273649408189955
1018.75470     5      1      0.004907952524655876
518.9565       6      1      0.01156166308528599
1418.077       3      1      0.0021158409362240972
1107.406       4      1      0.00342640800527009773
566.3094      10      1      0.0176581921929968
1481.4717     14      1      0.009450862523687828
268.8987      17      1      0.0632208308664863
```

```
hive> SELECT
>   AVG(items_per_amount) AS avg_items_per_amount
> FROM
>   (
>     SELECT
>       amount_spent,
>       number_of_items,
>       payment_method,
>       number_of_items / amount_spent AS items_per_amount
>     FROM
>       gensales_data
>   ) subquery;
```

```
2024-06-01 16:58:56,785 INFO [d3e855fb-ef1a-4adc-b5fc-4bae01f10b9 main] reducesink.VectorReduceSinkEmptyKeyOperator: VectorReduceSinkEmptyKeyOperator constructor vectorReduceSinkInfo org.apache.hadoop.hive.ql.plan.VectorReduceSinkInfo@38991781
Query ID = root_20240601165856_9adbe2c-af29-42c9-a399-ef1b263c3ebe
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1717258132785_0016)
```

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

VERTICES: 02/02 [=====] 100% ELAPSED TIME: 8.37 s

```
OK
0.04585173621108595
Time taken: 9.271 seconds, Fetched: 1 row(s)
hive> CREATE TABLE gensales_data_new AS
> SELECT
>   amount_spent,
>   number_of_items,
>   payment_method
> FROM
>   gensales_data;
Query ID = root_20240601165957_30d57394-fdcb-49df-b071-ac0584bf482b
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1717258132785_0016)
```

VERTICES	MODE	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	container	SUCCEEDED	2	2	0	0	0	0

VERTICES: 01/01 [=====] 100% ELAPSED TIME: 7.79 s

```
Moving data to directory hdfs://master:9000/usr/hive/warehouse/gensales_data_new
OK
Time taken: 8.899 seconds
hive> DROP TABLE gensales_data;
OK
Time taken: 0.132 seconds
hive> ALTER TABLE gensales_data_new RENAME TO gensales_data;
OK
Time taken: 0.118 seconds
hive> SELECT
>   amount_spent,
>   number_of_items,
>   payment_method,
>   amount_spent / number_of_items AS amount_per_item
> FROM
>   gensales_data;
```

```
hive> SELECT
> amount_spent,
> number_of_items,
> payment_method,
> amount_spent / number_of_items AS amount_per_item
FROM
> gensales_data;
```

```
OK
298.76892      5      1      59.7537841796875
47.37617      28      1      2.36888855683827
1442.7387      6      1      248.45511835180416
449.16257      6      1      74.86842785644531
871.92334      18      1      87.192333984375
1246.7689      4      1      311.6982168644531
1899.3188      3      1      369.4369383865417
649.4959      3      1      216.4986368815184
142.94347      7      1      20.428495169583347
838.36466      22      1      38.18748813683897
1328.1687      19      1      69.98361588116132
218.18256      10      1      21.81825615234374
817.43195      15      1      54.495643853385414
213.78856      19      1      11.252829418945312
1493.339      24      1      62.22245788574219
668.3966      21      1      31.828489838729168
1817.68256      16      1      63.685159759521484
1372.7251      1      1      1372.72589765625
426.18167      16      1      26.636384444411133
1438.9819      12      1      119.90848795572917
627.8639      16      1      32.94149398883711
1878.8181      18      1      107.8818115234375
1112.9369      12      1      92.7445788436196
696.6449      2      1      348.32244873846875
1421.6984      17      1      83.62884888514786
164.21814      23      1      7.139571488129876
1259.8485      1      1      1259.8485187421875
834.84584      13      1      64.19577261117789
582.46814      1      1      582.4681444279688
917.46584      2      1      458.83251953125
215.92921      24      1      8.997858483238795
517.8291      8      1      64.6286392211914
1335.2513      2      1      667.6255713867188
487.46382      3      1      135.76468815429688
1329.8596      9      1      147.76217998451389
886.7329      4      1      221.6832275398625
1139.4746      22      1      51.79438842613637
54.417888      7      1      7.7286965878452
916.2749      14      1      65.44828731826786
568.2799      14      1      40.81999337325896
1443.821      21      1      68.78338389151786
471.61487      4      1      117.98381867675781
1188.4382      13      1      84.6498948816827
391.12668      24      1      16.296944936116535
976.12195      12      1      81.34349568684895
1419.3825      23      1      61.78888392223495
945.9229      8      1      118.24836487478783
726.5861      22      1      33.026641845783125
1495.4683      18      1      83.88157889548611
1374.85995      7      1      53.55142219148625
1818.75476      5      1      283.7589521484375
518.9565      6      1      86.4927469889323
1418.877      3      1      472.6923421223958
1167.486      4      1      291.86118144484375
566.3894      18      1      56.63893872870313
1481.4717      14      1      105.81948569196429
268.8987      17      1      15.817571383423714
```

```
416.27634      11      1      37.84338333629226
176.71886      11      1      15.974369395862926
78.56787      15      1      4.489192885266113
1498.8887      23      1      64.78644717888816
763.88693      8      1      95.45886669921875
579.4782      16      1      36.21738815387617
1175.5818      22      1      53.4385357769887
44.673842      21      1      2.1272877284458787
1248.2864      5      1      249.657275398625
628.4892      15      1      41.36861197916667
1488.1314      12      1      118.6817838483658
1345.389      28      1      67.26945198429687
472.94693      9      1      52.5496588881293484
Time taken: 8.145 seconds, Fetched: 500 row(s)
hive> SELECT
> AVG(amount_spent / number_of_items) AS avg_amount_per_item
FROM
> gensales_data;
2024-06-01 17:03:24,294 INFO [d3e855fb-ef1a-4adc-b5fc-4bae01f1d0b9 main] reducesink.VectorReduceSinkEmptyKeyOperator: VectorReduceSinkEmptyKeyOperator constructor vectorReduceSinkInfo org.apache.hadoop.hive.ql.plan.VectorReduceSinkInfo@69e935a
Query ID = root_20240601170324_e0c2ec-944e-4886-a4ab-f810eb553755
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1717258132785_0816)
```

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

VERTICES: 02/02 [=====] 100% ELAPSED TIME: 7.45 s

```
OK
122.58352575813109
Time taken: 8.283 seconds, Fetched: 1 row(s)
hive> SELECT
> COUNT(*) AS num_transactions_above_100
FROM
> gensales_data
> WHERE
> amount_spent / number_of_items > 100;
2024-06-01 17:55:57,116 INFO [d3e855fb-ef1a-4adc-b5fc-4bae01f1d0b9 main] reducesink.VectorReduceSinkEmptyKeyOperator: VectorReduceSinkEmptyKeyOperator constructor vectorReduceSinkInfo org.apache.hadoop.hive.ql.plan.VectorReduceSinkInfo@5c94d4b8
Query ID = root_20240601175556_887408d5-6748-4832-8b6e-f127a2e719b5
Total jobs = 1
Launching Job 1 out of 1
Tez session was closed. Reopening...
2024-06-01 17:56:57,289 INFO [d3e855fb-ef1a-4adc-b5fc-4bae01f1d0b9 main] client.RMProxy: Connecting to ResourceManager at master/172.28.1.1:8032
Session re-established.
Session re-established.
Status: Running (Executing on YARN cluster with App id application_1717258132785_0818)
```

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

VERTICES: 02/02 [=====] 100% ELAPSED TIME: 8.38 s

```
OK
146
Time taken: 16.775 seconds, Fetched: 1 row(s)
hive> █
```