

# FINAL PROJECT

```
ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableByoidOsLogin=true&ena...
ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableByoi...

SSH-in-browser

permitted by applicable law.
Last login: Fri Dec 15 05:47:16 2023 from 35.235.244.33
kptl7789@final-project-hive-m:~$ ls -l
total 0
kptl7789@final-project-hive-m:~$ mkdir ~/brewery_operation
kptl7789@final-project-hive-m:~$ ls -l
total 4
drwxr-xr-x 2 kptl7789 kptl7789 4096 Dec 15 05:57 brewery_operation
kptl7789@final-project-hive-m:~$ hadoop fs -ls
ls: '.': No such file or directory
kptl7789@final-project-hive-m:~$ hadoop fs -ls /user

Found 11 items
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/dataproc
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/hbase
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/hdfs
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/hive
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/mapred
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/pig
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/solr
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/spark
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/yarn
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/zeppelin
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/zookeeper
kptl7789@final-project-hive-m:~$
kptl7789@final-project-hive-m:~$ hadoop fs -mkdir /user/brewery_operatoin
kptl7789@final-project-hive-m:~$ hadoop fs -ls /user

Found 12 items
drwxr-xr-x - kptl7789 hadoop 0 2023-12-15 05:58 /user/brewery_operatoin
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/dataproc
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/hbase
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/hdfs
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/hive
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/mapred
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/pig
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/solr
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/spark
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/yarn
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/zeppelin
drwxrwxrwt - hdfs hadoop 0 2023-12-15 05:44 /user/zookeeper
kptl7789@final-project-hive-m:~$
```

```
ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableByoidOsLogin=true&ena...
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SSH-in-browser

- [1 files] [ 2.4 GiB / 2.4 GiB ] 61.7 MiB/s
Operation completed over 1 objects/2.4 GiB.
kptl7789@final-project-hive-m:~$ head -n 3 ~/brewery_operation/brewery.csv
Batch_ID,Brew_Date,Beer_Style,SKU,Location,Fermentation_Time,Temperature,pH_Level,Gravity,Alcohol_Content,Bitterness,Color,Ingredient_Ratio,Volume_Produced>Total_Sales,Qu
ality_Score,Brewhouse_Efficiency,Loss_During_Brewing,Loss_During_Fermentation,Loss_During_Bottling_Kegging
7870796,2020-01-01 00:00:19,Wheat_Beer,Keags,Whitefield,16,24,204250857069873,5.2898454476095615,1.0395041267301979,5.370842159553436,20,5,1:0.32:0.16,4666,2664.7593448382
822,8.57701633109399,89.19588216376087,4.1049876591878345,3.2354851724654683,4.663204448186049
9810411,2020-01-01 00:00:31,Sour,Keags,Whitefield,13,18.086762947259544,5.275643382756193,1.0598189516987164,5.096053082797625,36,14,1:0.39:0.24,832,9758.801062471319,7.42
054075253908,72.480915390275,2.6765280953921122,4.2461292104108574,2.04435896917023
kptl7789@final-project-hive-m:~$ hadoop fs -copyFromLocal ~/brewery_operation/brewery.csv /user/brewery_operation/
copyFromLocal: /user/brewery_operation/.: No such file or directory: 'hdfs://final-project-hive-m/user/brewery_operation'
kptl7789@final-project-hive-m:~$ hadoop fs -copyFromLocal ~/brewery_operation/brewery.csv /user/brewery_operatoin/
kptl7789@final-project-hive-m:~$ hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/tez/lib/slf4j-reload4j-1.7.36.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-reload4j-1.7.36.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.slf4j.impl.Reload4jLoggerFactory]
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SLF4J: Found binding in [jar:file:/usr/lib/tez/lib/slf4j-reload4j-1.7.36.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-reload4j-1.7.36.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.slf4j.impl.Reload4jLoggerFactory]
Hive Session ID = d6d6fb46-5471-4aac-a975-0a8c25d0e87

Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j2.properties Async: true
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.hive.common.StringInternUtils (file:/usr/lib/hive/lib/hive-common-3.1.3.jar) to field java.net.URI.string
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.hive.common.StringInternUtils
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
Hive Session ID = 38a0a88f-f973-451a-8be6-fe167a406c80
hive> create database brewery_operation;
OK
Time taken: 0.497 seconds
hive> use brewery_operation;
FAILED: SemanticException [Error 10072]: Database does not exist: brewery_operation
hive> create database brewery_operation;
OK
Time taken: 0.059 seconds
hive> use brewery_operation;
```

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```
ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableByoidLogin=true&ena...
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SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
hive> create external table if not exists brewery_table(Batch_ID INT, Brew Date STRING, Beer Style STRING, SKU STRING, Location STRING, Fermentation Time INT, Temperature DOUBLE, pH Level DOUBLE, Gravity DOUBLE, Alcohol_Content DOUBLE, Bitterness DOUBLE, Color INT, Ingredient_Ratio STRING, Volume_Produced INT, Total_Sales DOUBLE, Quality_Score DOUBLE, Brewhouse_Efficiency DOUBLE, Loss_During_Brewing DOUBLE, Loss_During_Fermentation DOUBLE, Loss_During_Bottling_Kegging DOUBLE) ROW FORMAT DELIMITED FIELDS TERMINATED BY ',' Stored as textfile location '/user/brewery_operatoin':
OK
Time taken: 0.402 seconds
hive> select * from brewery_table limit 7;
OK
NULL Brew Date Beer Style SKU Location NULL NULL NULL NULL NULL NULL NULL Ingredient_Ratio NULL NULL NULL NU
LL NULL NULL NULL
7870796 2020-01-01 00:00:19 Wheat Kegs Whitefield 16 24.204250857069873 5.2898454476095615 1.0395041267301979 5.3708421595534362
0.0 5 1:0.32:0.16 4666 2664.7593448382822 8.57701633109399 89.19588216376087 4.1049876591878345 3.2354851724654683 4.66320444
8186049
9810411 2020-01-01 00:00:31 Sour Kegs Whitefield 13 18.086762947259544 5.275643382756193 1.0598189516987164 5.086053082797625 36
.0 14 1:0.39:0.24 832 9758.801062471319 7.420540752553908 72.4809153900275 2.6765280953921122 4.2461292104108574 2.04435836
917023
2623342 2020-01-01 00:00:40 Wheat Beer Kegs Malleeswaram 12 15.539332669116469 4.7780156232459765 1.0374757095487201 4.8247371209591843
0.0 10 1:0.35:0.16 2115 11721.087016274963 8.451364886803127 86.32214396020584 3.299893625514981 3.109440467362847 3.0387983
78762806
8114651 2020-01-01 00:01:37 Ale Kegs Rajajinagar 17 16.41848910394318 5.345260585546188 1.0524314251694946 5.509243080797997 48
.0 18 1:0.35:0.15 3173 12050.177463190277 9.671859404043175 83.09494037181545 2.136055116262562 4.634254174098425 1.48988906
77148424
4579587 2020-01-01 00:01:43 Stout Cans Marathahalli 18 19.144907654338517 4.86185374113861 1.0542961149482333 5.133624684263243 57
.0 13 1:0.46:0.11 4449 5515.0774647529615 7.895333676172065 88.62583302052388 4.491723843594972 2.1833886016455497 2.99063021
88791485
8715759 2020-01-01 00:01:48 Ale Kegs Whitefield 10 17.424614393375766 5.291786621908058 1.064662042682204 4.859171021614226 45
.0 9 1:0.23:0.15 3752 6278.389850288936 8.47381192497374 87.8128259096688 3.2051089361121203 1.4783386754434935 3.05192058
8503346
Time taken: 1.741 seconds, Fetched: 7 row(s)
hive> select * from brewery_table limit 1;
OK
NULL Brew Date Beer Style SKU Location NULL NULL NULL NULL NULL NULL NULL Ingredient_Ratio NULL NULL NULL NU
LL NULL NULL NULL
Time taken: 0.221 seconds, Fetched: 1 row(s)
hive> create table brewery_result_table AS
> select Batch_ID,
> Brew Date,
> Beer Style,
> SKU,
> Location,
> Fermentation Time,
```

```
ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableByoidLogin=true&ena...
ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableByoi...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
.0 9 1:0.23:0.15 3752 6278.389850288936 8.47381192497374 87.8128259096688 3.2051089361121203 1.4783386754434935 3.05192058
8503346
Time taken: 1.741 seconds, Fetched: 7 row(s)
hive> select * from brewery_table limit 1;
OK
NULL Brew Date Beer Style SKU Location NULL NULL NULL NULL NULL NULL NULL Ingredient_Ratio NULL NULL NULL NU
LL NULL NULL NULL
Time taken: 0.221 seconds, Fetched: 1 row(s)
hive> create table brewery_result_table AS
> select Batch_ID,
> Brew Date,
> Beer Style,
> SKU,
> Location,
> Fermentation Time,
> Alcohol_Content,
> Bitterness,
> Volume_Produced,
> Total_Sales,
> Quality_Score,
> Brewhouse_Efficiency,
> Loss_During_Brewing,
> Loss_During_Fermentation,
> Loss_During_Bottling_Kegging
> from brewery_table;
Query ID = kpt17789_20231215062749_f443c334-8bd9-4d7f-aa5c-7dae43b5d2dc
Total jobs = 1
Launching Job 1 out of 1
Tex session was closed. Reopening...
Session re-established.
Session re-established.
Status: Running (Executing on YARN cluster with App id application_1702619072909_0002)

-----
VERTICES MODE STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
-----
Map 1 container RUNNING 7 0 3 4 0 0
-----
VERTICES: 00/01 [>-----] 0% ELAPSED TIME: 23.41 s
-----
```

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```
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ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableByoi...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
8114651 2020-01-01 09:01:37 Ale Kega Rajajinagar 17 5.509243080797997 48.0 3173 12050.177463190277 9.671859404043175 83.0949403
7181545 2.136055116262562 4.634254174098425 1.4898890677148424
Time taken: 0.178 seconds, Fetched: 5 row(s)
hive> exit;
kptl7789@final-project-hive-m:~$ mkdir /home/kptl7789
mkdir: cannot create directory '/home/kptl7789': File exists
kptl7789@final-project-hive-m:~$ mkdir /home/kptl7789/brewery_hive_outputs
kptl7789@final-project-hive-m:~$ hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/tez/lib/slf4j-reload4j-1.7.36.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-reload4j-1.7.36.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.slf4j.impl.Reload4jLoggerFactory]
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/tez/lib/slf4j-reload4j-1.7.36.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-reload4j-1.7.36.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.slf4j.impl.Reload4jLoggerFactory]
Hive Session ID = 0ef2f114-75a3-4bb2-ba15-64ccf727e1f6
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j2.properties Async: true
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.hive.common.StringInternUtils (file:/usr/lib/hive/hive-common-3.1.3.jar) to field java.net.URI.string
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.hive.common.StringInternUtils
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
Hive Session ID = 1e194396-efbc-4b3d-8118-fc61a6dc891c
hive> use brewery_operation;
OK
Time taken: 0.341 seconds
hive> insert overwrite local directory '/home/kptl7789/brewery_hive_outputs'
> row format delimited
> fields terminated by ','
> select * from brewery_result_table;
NoViableAltException(248[])
at org.apache.hadoop.hive.q1.parse.HiveParser.insertClause(HiveParser.java:41860)
at org.apache.hadoop.hive.q1.parse.HiveParser.regularBody(HiveParser.java:39556)
at org.apache.hadoop.hive.q1.parse.HiveParser.queryStatementExpressionBody(HiveParser.java:38900)
at org.apache.hadoop.hive.q1.parse.HiveParser.queryStatementExpression(HiveParser.java:38788)
at org.apache.hadoop.hive.q1.parse.HiveParser.execStatement(HiveParser.java:2396)
at org.apache.hadoop.hive.q1.parse.HiveParser.statement(HiveParser.java:1420)
Type here to search
5°C
ENG IN
1:37 AM
12/15/2023
```

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ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableByoidLogin=true&ena...
ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableByoi...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
Time taken: 81.037 seconds
hive> exit;
kptl7789@final-project-hive-m:~$ ls /home/kptl7789/brewery_hive_outputs
000000_0 000001_0 000002_0 000003_0 000004_0 000005_0 000006_0
kptl7789@final-project-hive-m:~$ mv 000000_0 output_00.csv
mv: cannot stat '000000_0': No such file or directory
kptl7789@final-project-hive-m:~$ cd /home/kptl7789/brewery_hive_outputs
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ mv 000000_0 output_00.csv
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ gsutil mv output_00.csv gs://final_project_123/output_00.csv
Copying file://output_00.csv [Content-Type=text/csv]...
==> NOTE: You are uploading one or more large file(s), which would run
significantly faster if you enable parallel composite uploads. This
feature can be enabled by editing the
"parallel_composite_upload_threshold" value in your .boto
configuration file. However, note that if you do this large files will
be uploaded as 'composite objects'
<https://cloud.google.com/storage/docs/composite-objects> which
means that any user who downloads such objects will need to have a
compiled crcmod installed (see "gsutil help crcmod"). This is because
without a compiled crcmod, computing checksums on composite objects is
so slow that gsutil disables downloads of composite objects.
Removing file://output_00.csv...
Operation completed over 1 objects/256.0 MiB.
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ mv 000000_1 output_01.csv
mv: cannot stat '000000_1': No such file or directory
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ mv 000001_0 output_01.csv
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ gsutil mv output_01.csv gs://final_project_123/output_01.csv
Copying file://output_01.csv [Content-Type=text/csv]...
==> NOTE: You are uploading one or more large file(s), which would run
significantly faster if you enable parallel composite uploads. This
feature can be enabled by editing the
"parallel_composite_upload_threshold" value in your .boto
configuration file. However, note that if you do this large files will
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so slow that gsutil disables downloads of composite objects.
Type here to search
5°C
ENG IN
1:44 AM
12/15/2023
```

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SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE

compiled crcmod installed (see "gsutil help crcmod"). This is because
without a compiled crcmod, computing checksums on composite objects is
so slow that gsutil disables downloads of composite objects.

Removing file://output_01.csv...

Operation completed over 1 objects/256.0 MiB.
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ mv 000002_0 output_02.csv
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ gsutil mv output_02.csv gs://final_project_123/output_02.csv
Copying file://output_02.csv [Content-Type=Text/csv]...
==> NOTE: You are uploading one or more large file(s), which would run
significantly faster if you enable parallel composite uploads. This
feature can be enabled by editing the
"parallel_composite_upload_threshold" value in your .boto
configuration file. However, note that if you do this large files will
be uploaded as "composite objects
<https://cloud.google.com/storage/docs/composite-objects>", which
means that any user who downloads such objects will need to have a
compiled crcmod installed (see "gsutil help crcmod"). This is because
without a compiled crcmod, computing checksums on composite objects is
so slow that gsutil disables downloads of composite objects.

Removing file://output_02.csv...

Operation completed over 1 objects/256.0 MiB.
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ mv 000003_0 output_03.csv
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ gsutil mv output_03.csv gs://final_project_123/output_03.csv
Copying file://output_03.csv [Content-Type=Text/csv]...
==> NOTE: You are uploading one or more large file(s), which would run
significantly faster if you enable parallel composite uploads. This
feature can be enabled by editing the
"parallel_composite_upload_threshold" value in your .boto
configuration file. However, note that if you do this large files will
be uploaded as "composite objects
<https://cloud.google.com/storage/docs/composite-objects>", which
means that any user who downloads such objects will need to have a
compiled crcmod installed (see "gsutil help crcmod"). This is because
without a compiled crcmod, computing checksums on composite objects is
so slow that gsutil disables downloads of composite objects.

Removing file://output_03.csv...
```

```
ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableByoidOsLogin=true&ena...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE

Removing file://output_03.csv...

Operation completed over 1 objects/256.0 MiB.
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ mv 000004_0 output_04.csv
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ gsutil mv output_04.csv gs://final_project_123/output_04.csv
Copying file://output_04.csv [Content-Type=Text/csv]...
==> NOTE: You are uploading one or more large file(s), which would run
significantly faster if you enable parallel composite uploads. This
feature can be enabled by editing the
"parallel_composite_upload_threshold" value in your .boto
configuration file. However, note that if you do this large files will
be uploaded as "composite objects
<https://cloud.google.com/storage/docs/composite-objects>", which
means that any user who downloads such objects will need to have a
compiled crcmod installed (see "gsutil help crcmod"). This is because
without a compiled crcmod, computing checksums on composite objects is
so slow that gsutil disables downloads of composite objects.

Removing file://output_04.csv...

Operation completed over 1 objects/256.0 MiB.
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ mv 000005_0 output_05.csv
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ gsutil mv output_05.csv gs://final_project_123/output_05.csv
Copying file://output_05.csv [Content-Type=Text/csv]...
==> NOTE: You are uploading one or more large file(s), which would run
significantly faster if you enable parallel composite uploads. This
feature can be enabled by editing the
"parallel_composite_upload_threshold" value in your .boto
configuration file. However, note that if you do this large files will
be uploaded as "composite objects
<https://cloud.google.com/storage/docs/composite-objects>", which
means that any user who downloads such objects will need to have a
compiled crcmod installed (see "gsutil help crcmod"). This is because
without a compiled crcmod, computing checksums on composite objects is
so slow that gsutil disables downloads of composite objects.

Removing file://output_05.csv...

Operation completed over 1 objects/256.0 MiB.
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ mv 000006_0 output_06.csv
kptl7789@final-project-hive-m:~/brewery_hive_outputs$ gsutil mv output_06.csv gs://final_project_123/output_06.csv
```

# FINAL PROJECT

```
ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableOidLogin=true&ena...
ssh.cloud.google.com/v2/ssh/projects/carbide-ego-406422/zones/us-central1-c/instances/final-project-hive-m?authuser=4&hl=en_US&projectNumber=1036446560793&useAdminProxy=true&enableOidLogin=true&ena...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
hive> create external table if not exists brewery_table(Batch ID INT, Brew Date STRING, Beer Style STRING, SKU STRING, Location STRING, Fermentation Time INT, Temperature DOUBLE, pH Level DOUBLE, Gravity DOUBLE, Alcohol Content DOUBLE, Bitterness DOUBLE, Color INT, Ingredient Ratio STRING, Volume Produced INT, Total Sales DOUBLE, Quality Score DOUBLE, Brewhouse Efficiency DOUBLE, Loss During Brewing DOUBLE, Loss During Fermentation DOUBLE, Loss During Bottling Kegging DOUBLE) ROW FORMAT DELIMITED FIELDS TERMINATED BY ',' Stored as textfile location "/user/brewery_operatoin":
OK
Time taken: 0.402 seconds
hive> select * from brewery_table limit 7;
OK
NULL    Brew Date    Beer Style    SKU    Location    NULL    NULL    NULL    NULL    NULL    NULL    NULL    Ingredient_Ratio    NULL    NULL    NULL    NU
LL      NULL      NULL      NULL
7870796 2020-01-01 00:00:19 4666 2664.7593448382822 8.57701633109399 89.19588216376087 4.1049876591878345 3.2354851724654683 4.66320444
0.0 5 1:0.32:0.16
8186049 9810411 2020-01-01 00:00:31 Sour Kegs Whitefield 13 18.086762947259544 5.275643382756193 1.0598189516987164 5.096053082797625 36
.0 14 1:0.39:0.24 832 9758.801062471319 7.420540752553908 72.4809153900275 2.6765280953921122 4.2461292104108574 2.04435836
917023
2623342 2020-01-01 00:00:40 Wheat Beer Kegs Malleswaram 12 15.539332669116469 4.7780156232459765 1.0374757095487201 4.8247371209591843
0.0 10 1:0.35:0.16 2115 11721.087016274963 8.451364886803127 86.32214396020584 3.299893625514981 3.109440467362847 3.03387983
78762806
8114651 2020-01-01 00:01:37 Ale Kegs Rajajinagar 17 16.41848910394318 5.345260585546188 1.0524314251694946 5.509243080797997 48
.0 18 1:0.35:0.15 3173 12050.177463190277 9.671859404043175 83.09494037181545 2.136055116262562 4.634254174098425 1.48988906
77148424
4579587 2020-01-01 00:01:43 Stout Cans Marathahalli 18 19.144907654338517 4.86185374113861 1.0542961149482333 5.133624684263243 57
.0 13 1:0.46:0.11 4449 5515.0774647529615 7.895333676172065 88.62583302052388 4.491723843594972 2.1833886016455497 2.99063021
88791485
8715759 2020-01-01 00:01:48 Ale Kegs Whitefield 10 17.424614393375766 5.291786621908058 1.064662042682204 4.859171021614226 45
.0 9 1:0.23:0.15 3752 6278.389850288936 8.47381192497374 87.8128259096688 3.2051089361121203 1.4783386754434935 3.05192058
8503346
Time taken: 1.741 seconds, Fetched: 7 row(s)
hive> select * from brewery_table limit 1;
OK
NULL    Brew Date    Beer Style    SKU    Location    NULL    NULL    NULL    NULL    NULL    NULL    NULL    Ingredient_Ratio    NULL    NULL    NULL    NU
LL      NULL      NULL      NULL
Time taken: 0.221 seconds, Fetched: 1 row(s)
hive> create table brewery_result_table AS
> select Batch_ID,
> Brew Date,
> Beer_Style,
> SKU,
> Location,
> Fermentation_Time,
```