



Installing MySQL on Mac

1. Download MySQL from Homebrew and Install mysql.

```
rashmis-mbp:~ rashmi$ brew install mysql
--> Downloading https://download.s3.net/project/homebrew/bottles/mysql-5.6.19.mavericks.bottle.tar.gz
Already downloaded: /Library/Caches/homebrew/mysql-5.6.19.mavericks.bottle.tar.gz
--> Pouring mysql-5.6.19.mavericks.bottle.tar.gz
--> Caveats
A "/etc/my.cnf" from another install may interfere with a Homebrew-built
server starting up correctly.

To connect:
  mysql -uroot

To have launchd start mysql at login:
  ln -sfv /usr/local/opt/mysql/*.plist ~/Library/LaunchAgents
Then to load mysql now:
  launchctl load ~/Library/LaunchAgents/homebrew.mxcl.mysql.plist
Or, if you don't want/need launchctl, you can just run:
  mysql.server start
```

2. Start MySQL server.

```
rashmis-mbp:~ rashmi$ /usr/local/Cellar/mysql/5.6.19/bin/mysql.server start
Starting MySQL
. SUCCESS!
```

```
mysql> use dowjones;
Database changed
mysql> describe dowjones;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| quarter | int(11) | YES | | NULL | |
| stock | varchar(35) | YES | | NULL | |
| date | varchar(35) | YES | | NULL | |
| open | double | YES | | NULL | |
| high | double | YES | | NULL | |
| low | double | YES | | NULL | |
| close | double | YES | | NULL | |
| volume | bigint(20) | YES | | NULL | |
| percent_change_price | double | YES | | NULL | |
| percent_change_volume_over_last_wk | double | YES | | NULL | |
| previous_weeks_volume | bigint(20) | YES | | NULL | |
| next_weeks_open | double | YES | | NULL | |
| next_weeks_close | double | YES | | NULL | |
| percent_change_next_weeks_price | double | YES | | NULL | |
| days_to_next_dividend | int(11) | YES | | NULL | |
| percent_return_next_dividend | double | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)

mysql> select count(*) from dowjones;
+-----+
| count(*) |
+-----+
| 750 |
+-----+
1 row in set (0.00 sec)
```

Creating Database, Table and loading the data

1. Open Mysql command line client, give username as “root” & password. MySQL command line will open. Now we can create tables, databases etc.

2. Create a new database and use new database using command given below. create database dowjones;

use dowjones;

3. Create table and insert records

```
/usr/local/Cellar/mysql/5.6.19/bin/mysql -uroot dowjones < tables.sql
```

```
/usr/local/Cellar/mysql/5.6.19/bin/mysql -uroot dowjones < data.sql
```

Installing Sqoop on Mac

1. Download & untar sqoop-1.4.5.bin_hadoop-0.23.tar.gz

```
Rashmis-MacBook-Pro:Downloads rashmi$ tar -zxvf  
sqoop-1.4.5.bin__hadoop-0.23.tar.gz
```

2. Setup HADOOP_HOME

```
export HADOOP_HOME=/usr/local/Cellar/hadoop/2.6.0
```

3. Download MySQL connector.

```
Rashmis-MacBook-Pro:lib rashmi$ cp ~/Downloads/mysql-connector-java-5.1.17-bin.jar .
```

Importing data from MySQL to HDFS using Sqoop

1. Execute Scoop command to get data from MySQL into HDFS.

```
Rashmis-MacBook-Pro:bin rashmi$ ./sqoop import --connect jdbc:mysql://localhost/dowjones --table dowjones --target-dir /user/rashmi/dowjones --username root --split-by quarter
Warning: /Users/rashmi/sqoop-1.4.5.bin__hadoop-2.0.4-alpha/bin/../../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
Warning: /Users/rashmi/sqoop-1.4.5.bin__hadoop-2.0.4-alpha/bin/../../zookeeper does not exist! Accumulo imports will fail.
Please set $ZOOKEEPER_HOME to the root of your Zookeeper installation.
14/12/11 10:57:08 INFO sqoop.Sqoop: Running Sqoop version: 1.4.5
14/12/11 10:57:09 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
14/12/11 10:57:09 INFO tool.CodeGenTool: Beginning code generation
14/12/11 10:57:09 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `dowjones` AS t LIMIT 1
14/12/11 10:57:09 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `dowjones` AS t LIMIT 1
14/12/11 10:57:09 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /usr/local/Cellar/hadoop/2.6.0/libexec
Note: /tmp/sqoop-rashmi/compile/8e6a8907497edd16309a0c4840a697fa/dowjones.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
```

14/12/11 10:57:11 INFO orm.CompilationManager: Writing jar file:
/tmp/sqoop-rashmi/compile/8e6a8907497edd16309a0c4840a697fa/
dowjones.jar [REDACTED]
14/12/11 10:57:11 WARN manager.MySQLManager: It looks like you
are importing from mysql. [REDACTED]
14/12/11 10:57:11 WARN manager.MySQLManager: This transfer can
be faster! Use the --direct [REDACTED]
14/12/11 10:57:11 WARN manager.MySQLManager: option to exercise
a MySQL-specific fast path. [REDACTED]
14/12/11 10:57:11 INFO manager.MySQLManager: Setting zero
DATETIME behavior to convertToNull (mysql) [REDACTED]
14/12/11 10:57:11 INFO mapreduce.ImportJobBase: Beginning import
of dowjones [REDACTED]
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/local/Cellar/hadoop/
2.6.0/libexec/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class] [REDACTED]
SLF4J: Found binding in [jar:file:/usr/local/Cellar/hbase/
0.98.8/libexec/lib/slf4j-log4j12-1.6.4.jar!/org/slf4j/impl/
StaticLoggerBinder.class] [REDACTED]
SLF4J: Found binding in [jar:file:/usr/local/Cellar/hive/0.14.0/
libexec/lib/hive-jdbc-0.14.0-standalone.jar!/org/slf4j/impl/
StaticLoggerBinder.class] [REDACTED]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for
an explanation. [REDACTED]
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory] [REDACTED]
14/12/11 10:57:11 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable [REDACTED]
14/12/11 10:57:11 INFO Configuration.deprecation: mapred.jar is
deprecated. Instead, use mapreduce.job.jar [REDACTED]
14/12/11 10:57:12 INFO Configuration.deprecation:
mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
14/12/11 10:57:12 INFO client.RMPProxy: Connecting to
ResourceManager at /0.0.0.0:8032 [REDACTED]
14/12/11 10:57:13 INFO db.DBInputFormat: Using read committed
transaction isolation [REDACTED]

```
14/12/11 10:57:13 INFO db.DataDrivenDBInputFormat:
BoundingValsQuery: SELECT MIN(`quarter`), MAX(`quarter`) FROM
`dowjones`
14/12/11 10:57:13 INFO mapreduce.JobSubmitter: number of splits:
2
14/12/11 10:57:13 INFO mapreduce.JobSubmitter: Submitting tokens
for job: job_1418322400940_0003
14/12/11 10:57:13 INFO impl.YarnClientImpl: Submitted
application application_1418322400940_0003
14/12/11 10:57:13 INFO mapreduce.Job: The url to track the job:
http://Rashmis-MacBook-Pro.local:8088/proxy/
application_1418322400940_0003/
14/12/11 10:57:13 INFO mapreduce.Job: Running job:
job_1418322400940_0003
14/12/11 10:57:21 INFO mapreduce.Job: Job job_1418322400940_0003
running in uber mode : false
14/12/11 10:57:21 INFO mapreduce.Job:  map 0% reduce 0%
14/12/11 10:57:27 INFO mapreduce.Job:  map 50% reduce 0%
14/12/11 10:57:28 INFO mapreduce.Job:  map 100% reduce 0%
14/12/11 10:57:28 INFO mapreduce.Job: Job job_1418322400940_0003
completed successfully
14/12/11 10:57:28 INFO mapreduce.Job: Counters: 30
  File System Counters
    FILE: Number of bytes read=0
    FILE: Number of bytes written=229938
    FILE: Number of read operations=0
    FILE: Number of large read operations=0
    FILE: Number of write operations=0
    HDFS: Number of bytes read=217
    HDFS: Number of bytes written=74390
    HDFS: Number of read operations=8
    HDFS: Number of large read operations=0
    HDFS: Number of write operations=4
  Job Counters
    Launched map tasks=2
    Other local map tasks=2
    Total time spent by all maps in occupied slots (ms)=8704
    Total time spent by all reduces in occupied slots (ms)=0
    Total time spent by all map tasks (ms)=8704
    Total vcore-seconds taken by all map tasks=8704
```

```

    Total megabyte-seconds taken by all map tasks=8912896
Map-Reduce Framework
  Map input records=750
  Map output records=750
  Input split bytes=217
  Spilled Records=0
  Failed Shuffles=0
  Merged Map outputs=0
  GC time elapsed (ms)=97
  CPU time spent (ms)=0
  Physical memory (bytes) snapshot=0
  Virtual memory (bytes) snapshot=0
  Total committed heap usage (bytes)=304087040
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=74390
14/12/11 10:57:28 INFO mapreduce.ImportJobBase: Transferred
72.6465 KB in 15.817 seconds (4.5929 KB/sec)
14/12/11 10:57:28 INFO mapreduce.ImportJobBase: Retrieved 750
records.

```

2. Verify data in HDFS.

```

Rashmis-MacBook-Pro:bin rashmi$ hadoop fs -ls /user/rashmi/
dowjones
14/12/11 11:13:19 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
Found 3 items
-rw-r--r--   3 rashmi supergroup          0 2014-12-11 10:57 /
user/rashmi/dowjones/_SUCCESS
-rw-r--r--   3 rashmi supergroup    35501 2014-12-11 10:57 /
user/rashmi/dowjones/part-m-00000
-rw-r--r--   3 rashmi supergroup    38889 2014-12-11 10:57 /
user/rashmi/dowjones/part-m-00001

```

Create Hive Tables on the dataset

```
hive> create database dowjones;
OK
Time taken: 0.069 seconds
hive> use dowjones;
OK
Time taken: 0.023 seconds
hive> CREATE EXTERNAL TABLE DOWJONES(quarter INT, stock
STRING, dj_date DATE, open DOUBLE, high DOUBLE, low
DOUBLE, close DOUBLE, volume BIGINT,
percent_change_price DOUBLE,
percent_change_volume_over_last_wk DOUBLE,
previous_weeks_volume DOUBLE, next_weeks_open DOUBLE,
next_weeks_close DOUBLE,
percent_change_next_weeks_price DOUBLE,
days_to_next_dividend DOUBLE,
percent_return_next_dividend DOUBLE) ROW FORMAT
DELIMITED FIELDS TERMINATED BY ',' LINES TERMINATED BY
'\n' STORED AS TEXTFILE LOCATION '/user/rashmi/
dowjones';
OK
Time taken: 0.254 seconds
hive> show tables;
OK
dowjones
Time taken: 0.023 seconds, Fetched: 1 row(s)
hive> desc dowjones;
OK
quarter                int
stock                   string
```

```

dj_date          date
open             double
high            double
low             double
close           double
volume          bigint
percent_change_price double
percent_change_volume_over_last_wk double

previous_weeks_volume double
next_weeks_open    double
next_weeks_close   double
percent_change_next_weeks_price double
days_to_next_dividend double
percent_return_next_dividend double
Time taken: 0.242 seconds, Fetched: 16 row(s)

```

```

hive> select count(*) from dowjones;
Query ID = rashmi_20141211113232_0aa2e35f-67cc-4ab7-b432-1dd7bb65375d
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_1418322400940_0004, Tracking URL = http://
Rashmis-MacBook-Pro.local:8088/proxy/
application_1418322400940_0004/
Kill Command = /usr/local/Cellar/hadoop/2.6.0/libexec/bin/hadoop
job -kill job_1418322400940_0004
Hadoop job information for Stage-1: number of mappers: 1; number
of reducers: 1

```



```
2014-12-11 11:32:29,783 Stage-1 map = 0%, reduce = 0%
2014-12-11 11:32:37,245 Stage-1 map = 100%, reduce = 0%
2014-12-11 11:32:44,578 Stage-1 map = 100%, reduce = 100%
Ended Job = job_1418322400940_0004
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 HDFS Read: 74671 HDFS Write:
4 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
OK
750
Time taken: 23.958 seconds, Fetched: 1 row(s)
```

```
hive> show create table dowjones;
OK
CREATE EXTERNAL TABLE `dowjones` (
  `quarter` int,
  `stock` string,
  `dj_date` date,
  `open` double,
  `high` double,
  `low` double,
  `close` double,
  `volume` bigint,
  `percent_change_price` double,
  `percent_change_volume_over_last_wk` double,
  `previous_weeks_volume` double,
  `next_weeks_open` double,
  `next_weeks_close` double,
  `percent_change_next_weeks_price` double,
  `days_to_next_dividend` double,
  `percent_return_next_dividend` double)
ROW FORMAT DELIMITED
  FIELDS TERMINATED BY ','
  LINES TERMINATED BY '\n'
STORED AS INPUTFORMAT
  'org.apache.hadoop.mapred.TextInputFormat'
OUTPUTFORMAT
  'org.apache.hadoop.hive.ql.io.HiveIgnoreKeyTextOutputFormat'
LOCATION
  'hdfs://localhost:8020/user/rashmi/dowjones'
```

```
TBLPROPERTIES (
  'COLUMN_STATS_ACCURATE'='false',
  'numFiles'='0',
  'numRows'='-1',
  'rawDataSize'='-1',
  'totalSize'='0',
  'transient_lastDdlTime'='1418326292')
Time taken: 0.06 seconds, Fetched: 33 row(s)
hive>
```

Executing Hive Query on Hive Table and store it in a CSV file in local FS

```
hive> select quarter, stock, SUM(volume) from dowjones GROUP BY
quarter, stock;
Query ID = rashmi_20141211113434_2b9e3c2c-dae8-4d13-
b4d9-19afc55a3117
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_1418322400940_0005, Tracking URL = http://
Rashmis-MacBook-Pro.local:8088/proxy/
application_1418322400940_0005/
Kill Command = /usr/local/Cellar/hadoop/2.6.0/libexec/bin/hadoop
job -kill job_1418322400940_0005
```

Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1

2014-12-11 11:34:39,725 Stage-1 map = 0%, reduce = 0%

2014-12-11 11:34:44,886 Stage-1 map = 100%, reduce = 0%

2014-12-11 11:34:51,097 Stage-1 map = 100%, reduce = 100%

Ended Job = job_1418322400940_0005

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 HDFS Read: 74671 HDFS Write:

972 SUCCESS

Total MapReduce CPU Time Spent: 0 msec

OK

1 AA 1704261619

1 AXP 461889815

1 BA 313697320

1 BAC 9940715801

1 CAT 371202194

1 CSC0 4171820400

1 CVX 495094629

1 DD 386663198

1 DIS 611594126

1 GE 3621713718

1 HD 562518684

1 HPQ 1146273791

1 IBM 314268493

1 INTC 3334810382

1 JNJ 650188923

1 JPM 1912200143

1 KO 508266584

1 KRFT 546769446

1 MCD 483220221

1 MMM 200727362

1 MRK 1082802612

1 MSFT 3460354791

1 PFE 3038874366

1 PG 623756758

1 T 1641869195

1 TRV 232272443

1 UTX 214791992

1 VZ 1132912594

1 WMT 751162352

```
1  XOM 1224397732
2  AA  1536708636
2  AXP 418322225
2  BA  280838193
2  BAC 8134262588
2  CAT 472075703
2  CSC0 4794719293
2  CVX 469401115
2  DD  341253270
2  DIS 574497710
2  GE  2976738241
2  HD  642607517
2  HPQ 1225186964
2  IBM 304211118
2  INTC 4140750033
2  JNJ 749963705
2  JPM 1865525270
2  KO  455637642
2  KRFT 573634835
2  MCD 320572286
2  MMM 192263978
2  MRK 836543269
2  MSFT 3782115015
2  PFE 2647799649
2  PG  592570503
2  T  1665313637
2  TRV 196657149
2  UTX 243159733
2  VZ  826717023
2  WMT 641873489
2  XOM 1117839582
Time taken: 18.429 seconds, Fetched: 60 row(s)
```

1. Hive query output into local file.

```
hive> INSERT OVERWRITE LOCAL DIRECTORY '/Users/rashmi/output' ROW FORMAT DELIMITED FIELDS TERMINATED BY ','
```

```
select quarter, stock, SUM(volume) from dowjones GROUP  
BY quarter, stock;
```

```
Query ID = rashmi_20141211123333_8e0ff2c7-  
f0e0-4f25-9aca-9c5d9decd2d8
```

```
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_1418322400940_0011, Tracking URL =  
http://Rashmis-MacBook-Pro.local:8088/proxy/  
application_1418322400940_0011/
```

```
Kill Command = /usr/local/Cellar/hadoop/2.6.0/libexec/  
bin/hadoop job -kill job_1418322400940_0011
```

```
Hadoop job information for Stage-1: number of mappers:  
1; number of reducers: 1
```

```
2014-12-11 12:33:16,629 Stage-1 map = 0%, reduce = 0%
```

```
2014-12-11 12:33:22,844 Stage-1 map = 100%, reduce =  
0%
```

```
2014-12-11 12:33:30,089 Stage-1 map = 100%, reduce =  
100%
```

```
Ended Job = job_1418322400940_0011
```

```
Copying data to local directory /Users/rashmi/output
```

```
Copying data to local directory /Users/rashmi/output
```

```
MapReduce Jobs Launched:
```

```
Stage-Stage-1: Map: 1 Reduce: 1 HDFS Read: 74671
```

```
HDFS Write: 972 SUCCESS
```

```
Total MapReduce CPU Time Spent: 0 msec
```

OK

Time taken: 22.482 seconds

hive>

Exporting Hive query output to MySQL using Sqoop

1. Create table quarter_stock_volumes in dowjones MySQL database.

2. Grant privileges on dowjones MySQL database.



```
mysql> create table quarter_stock_volumes(quarter int(11), stock varchar(35), volume bigint(20)) engine=InnoDB;
Query OK, 0 rows affected (0.01 sec)

mysql> show tables;
+-----+
| Tables_in_dowjones |
+-----+
| dowjones            |
| quarter_stock_volumes |
+-----+
2 rows in set (0.00 sec)

mysql> grant all privileges on dowjones.* to 'localhost';
Query OK, 0 rows affected (0.00 sec)
```

3. Copy the Hive query output File from local file system to HDFS.

```
Rashmi-MacBook-Pro:output rashmi$ hadoop fs -put /Users/rashmi/000000_0 /user/rashmi/dowjones/output/localFS.txt
```

```
14/12/11 12:56:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
```

4. Execute sqoop export with all the required parameters to export Hive query output into quarter_stock_volumes table in MySQL

```
Rashmis-MacBook-Pro:bin rashmi$ ./sqoop export --connect
jdbc:mysql://localhost/dowjones --table quarter_stock_volumes --
export-dir /user/rashmi/dowjones/output/localFS.txt --username
root --input-fields-terminated-by ',' --input-lines-terminated-
by '\n'
Warning: /Users/rashmi/sqoop-1.4.5.bin__hadoop-2.0.4-alpha/
bin/../../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo
installation.
Warning: /Users/rashmi/sqoop-1.4.5.bin__hadoop-2.0.4-alpha/
bin/../../zookeeper does not exist! Accumulo imports will fail.
Please set $ZOOKEEPER_HOME to the root of your Zookeeper
installation.
14/12/11 12:57:36 INFO sqoop.Sqoop: Running Sqoop version: 1.4.5
14/12/11 12:57:36 INFO manager.MySQLManager: Preparing to use a
MySQL streaming resultset.
14/12/11 12:57:36 INFO tool.CodeGenTool: Beginning code
generation
14/12/11 12:57:36 INFO manager.SqlManager: Executing SQL
statement: SELECT t.* FROM `quarter_stock_volumes` AS t LIMIT 1
14/12/11 12:57:36 INFO manager.SqlManager: Executing SQL
statement: SELECT t.* FROM `quarter_stock_volumes` AS t LIMIT 1
14/12/11 12:57:36 INFO orm.CompilationManager:
HADOOP_MAPRED_HOME is /usr/local/Cellar/hadoop/2.6.0/libexec
Note: /tmp/sqoop-rashmi/compile/75816172dc231dfbdd76fe9bb85ca722/quarter_stock_volumes.java uses
or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
14/12/11 12:57:38 INFO orm.CompilationManager: Writing jar file:
/tmp/sqoop-rashmi/compile/75816172dc231dfbdd76fe9bb85ca722/
quarter_stock_volumes.jar
14/12/11 12:57:38 INFO mapreduce.ExportJobBase: Beginning export
of quarter_stock_volumes
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/local/Cellar/hadoop/
2.6.0/libexec/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/
org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/local/Cellar/hbase/
0.98.8/libexec/lib/slf4j-log4j12-1.6.4.jar!/org/slf4j/impl/
StaticLoggerBinder.class]
```

SLF4J: Found binding in [jar:file:/usr/local/Cellar/hive/0.14.0/libexec/lib/hive-jdbc-0.14.0-standalone.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.Log4jLoggerFactory]

14/12/11 12:57:38 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

14/12/11 12:57:38 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar

14/12/11 12:57:39 INFO Configuration.deprecation: mapred.reduce.tasks.speculative.execution is deprecated. Instead, use mapreduce.reduce.speculative

14/12/11 12:57:39 INFO Configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use mapreduce.map.speculative

14/12/11 12:57:39 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps

14/12/11 12:57:39 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

14/12/11 12:57:40 INFO input.FileInputFormat: Total input paths to process : 1

14/12/11 12:57:40 INFO input.FileInputFormat: Total input paths to process : 1

14/12/11 12:57:40 INFO mapreduce.JobSubmitter: number of splits: 4

14/12/11 12:57:40 INFO Configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use mapreduce.map.speculative

14/12/11 12:57:40 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1418322400940_0015

14/12/11 12:57:40 INFO impl.YarnClientImpl: Submitted application application_1418322400940_0015

14/12/11 12:57:41 INFO mapreduce.Job: The url to track the job: http://Rashmis-MacBook-Pro.local:8088/proxy/application_1418322400940_0015/

14/12/11 12:57:41 INFO mapreduce.Job: Running job: job_1418322400940_0015

14/12/11 12:57:49 INFO mapreduce.Job: Job job_1418322400940_0015
running in uber mode : false
14/12/11 12:57:49 INFO mapreduce.Job: map 0% reduce 0%
14/12/11 12:58:00 INFO mapreduce.Job: map 25% reduce 0%
14/12/11 12:58:01 INFO mapreduce.Job: map 100% reduce 0%
14/12/11 12:58:01 INFO mapreduce.Job: Job job_1418322400940_0015
completed successfully
14/12/11 12:58:01 INFO mapreduce.Job: Counters: 30

File System Counters

FILE: Number of bytes read=0
FILE: Number of bytes written=457848
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=3010
HDFS: Number of bytes written=0
HDFS: Number of read operations=16
HDFS: Number of large read operations=0
HDFS: Number of write operations=0

Job Counters

Launched map tasks=4
Data-local map tasks=4
Total time spent by all maps in occupied slots (ms)=39104
Total time spent by all reduces in occupied slots (ms)=0
Total time spent by all map tasks (ms)=39104
Total vcore-seconds taken by all map tasks=39104
Total megabyte-seconds taken by all map tasks=40042496

Map-Reduce Framework

Map input records=60
Map output records=60
Input split bytes=568
Spilled Records=0
Failed Shuffles=0
Merged Map outputs=0
GC time elapsed (ms)=267
CPU time spent (ms)=0
Physical memory (bytes) snapshot=0
Virtual memory (bytes) snapshot=0
Total committed heap usage (bytes)=577241088

File Input Format Counters

```

mysql> mysql> select count(*) from quarter_stock_volumes;
+-----+
| count(*) |
+-----+
|        60 |
+-----+
1 row in set (0.00 sec)

mysql> select * from quarter_stock_volumes limit 5;
+-----+-----+-----+
| quarter | stock | volume |
+-----+-----+-----+
| 2 | AA | 1536708636 |
| 2 | AXP | 418322225 |
| 2 | BA | 280838193 |
| 2 | BAC | 8134262588 |
| 2 | CAT | 472075703 |
+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

Bytes Read=0
File Output Format Counters
Bytes Written=0
14/12/11 12:58:01 INFO mapreduce.ExportJobBase: Transferred
2.9395 KB in 21.875 seconds (137.6003 bytes/sec)
14/12/11 12:58:01 INFO mapreduce.ExportJobBase: Exported 60
records.
Rashmis-MacBook-Pro:bin rashmi$

```