



Data Ingestion from the RDS to HDFS using Sqoop

Sqoop Import command used for importing table from RDS to HDFS:

sqoop import \

- > --connect jdbc:mysql://upgraddetest.cyaielc9bmnf.us-east-
- 1.rds.amazonaws.com/testdatabase \
- > --table SRC_ATM_TRANS \
- > --username student --password STUDENT123 \
- > --target-dir /user/root/assignment \
- > -m 1 \
- > --as-parquetfile

Command used to see the list of imported data in HDFS:

hadoop fs -cat /user/root/assignment//a6d88055-0b19-4572-8e63-ce01866a70be.parquet | wc -l hadoop fs -cat /user/root/assignment//a6d88055-0b19-4572-8e63-ce01866a70be.parquet | head -n 10





Screenshot of the imported data:

```
ry --help for usage instructions.
hadoop@ip-10-0-6-27 mysql-connector-java-8.0.25]$ sqoop import \
--connect jdbc:mysql://upgraddetest.cyaielc9bmnf.us-east-1.rds.amazonaws.com/testdatabase \
--table SRC ATM TRANS \
--username student --password STUDENT123 \
--target-dir /user/root/assignment \
- mas-parquetfile
Warning: /usr/lib/sqoop/../hbase does not exist! HBase imports will fail.
Please set $HBASE HOME to the root of your HBase installation.
Warning: /usr/lib/sqoop/../hoatalog does not exist! HBase imports will fail.
Please set $HBASE HOME to the root of your HCatalog jobs will fail.
Please set $HCAT HOME to the root of your HCatalog installation.
Warning: /usr/lib/sqoop/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO HOME to the root of your Accumulo installation.
23/06/19 1:33:49 HNO sqoop.5qoop: Running Sqoop version: 1.4.7

$LF40: Class path contains multiple $LF40 bindings.
$LF40: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4]12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]
$LF40: Found binding in [jar:file:/usr/share/aws/redshift/jdbc/redshift-jdbc42-1.2.37.1061.jar!/org/slf4j/impl/StaticLoggerBinder.class]
$LF40: Found binding is of type [org.slf4].impl.log4jloggerFactory]
23/06/19 19:34:49 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
23/06/19 19:34:49 WNO manager.mySQLManager: Preparing to use a MySQL streaming resultset.
23/06/19 19:34:59 WNO manager.mySQLManager: Preparing to use a MySQL streaming resultset.
23/06/19 19:34:50 WNO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'SRC_ATM_TRANS' AS t LIMIT 1
23/06/19 19:34:50 WNO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'SRC_ATM_TRANS' AS t LIMIT 1
23/06/19 19:34:50 WNO orm.CompilationManager: HADOOP MAPRED MOM is /usr/lib/hadoop-mapreduce
Note: /tmp/sqoop-hadoop/compile/96/27ab8718abe87ad5f3245f
       --as-parquetfile
                                                   FILE: Number of bytes written=193713
FILE: Number of read operations=0
                                                   FILE: Number of large read operations=0
                                                  HDFS: Number of bytes read=41972
HDFS: Number of bytes written=44699221
                                                    HDFS: Number of read operations=50
                                                 HDFS: Number of large read operations=0 HDFS: Number of write operations=10
                                                   Launched map tasks=1
                                                   Other local map tasks=1
                                                   Total time spent by all maps in occupied slots (ms)=2717520
                                                   Total time spent by all reduces in occupied slots (ms)=0 Total time spent by all map tasks (ms)=56615 Total vcore-milliseconds taken by all map tasks=56615
                                                    Total megabyte-milliseconds taken by all map tasks=86960640
                         Map-Reduce Framework
                                                  Map input records=2468572
                                                  Map output records=2468572
Input split bytes=87
Spilled Records=0
                                                   Failed Shuffles=0
                                                  Merged Map outputs=0
GC time elapsed (ms)=752
                                                   Physical memory (bytes) snapshot=704606208
Virtual memory (bytes) snapshot=3311304704
Total committed heap usage (bytes)=558366720
                                                 Bytes Read=0
  Bytes Written=0
23/06/19 19:36:15 INFO mapreduce.ImportJobBase: Transferred 42.6285 MB in 78.9925 seconds (552.6042 KB/sec)
    3/06/19 19:36:15 INFO mapreduce.ImportJobBase: Retrieved 2468572 records.
  [hadoop@ip-10-0-6-27 mysql-connector-java-8.0.25]$ hadoop fs -ls [hadoop@ip-10-0-6-27 mysql-connector-java-8.0.25]$ hadoop fs -ls /user/root/assignment

        drwxr-xr-x
        - hadoop hadoop
        0 2023-06-19 19:34 /user/root/assignment/.metadata

        drwxr-xr-x
        - hadoop hadoop
        0 2023-06-19 19:36 /user/root/assignment/.signals

        -rw-r--r-
        1 hadoop hadoop
        44688887 2023-06-19 19:36 /user/root/assignment/a6d88055-0b19-4572-8e63-ce01866a70be.parquet

 [hadoop@ip-10-0-6-27 mysql-connector-java-8.0.25]$ ^C [hadoop@ip-10-0-6-27 mysql-connector-java-8.0.25]$ /1
                                                                                                                                                                    /user/root/assignment/a6d88055-0b19-4572-8e63-ce01866a70be.parquet
```