1. df\_SPY = spark.read.csv("hdfs://horton.hpc.nyu.edu:8020/user/ys3701/project/SPY.csv", inferSchema = True, header=True);

22. df\_SPY.write.csv("hdfs://horton.hpc.nyu.edu:8020/user/ys3701/project/df\_SPY.csv");

23. df\_SPY = spark.read.csv("hdfs://horton.hpc.nyu.edu:8020/user/ys3701/project/df\_SPY.csv", inferSchema = True);

25. df\_SPY.write.csv("hdfs://horton.hpc.nyu.edu:8020/user/ys3701/project/df\_SPY2.csv");

26. df\_SPY = spark.read.csv("hdfs://horton.hpc.nyu.edu:8020/user/ys3701/project/df\_SPY2.csv", inferSchema = True);