# Assignment – Capstone Project

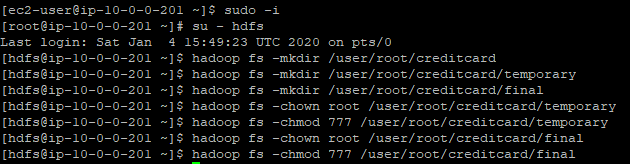
# Mid submission

Credit Card Fraud Detection System - ScriptsExecution.pdf

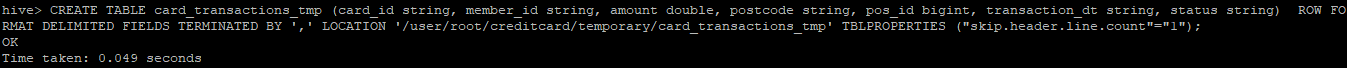
By: Shubhra Sinha

# TASK 1 ScreenShots

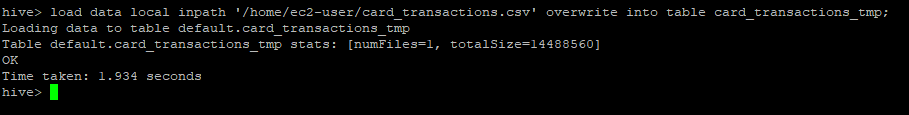
Creating the required directories:



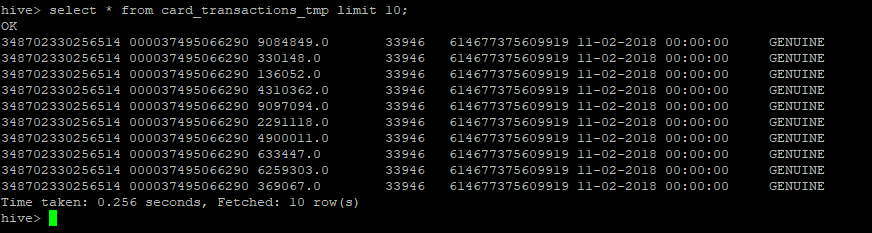
1. Script to create (INTERNAL) card\_transactions temporary hive table to load the given CSV



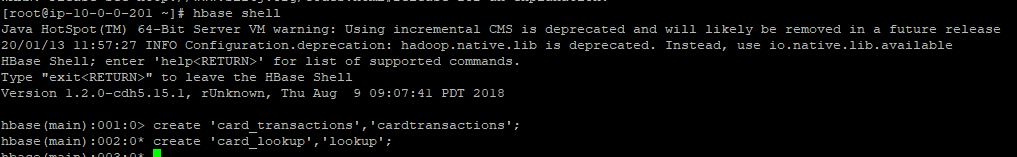
2. Script to load initially card\_transactions data from csv



3. Check the data loaded

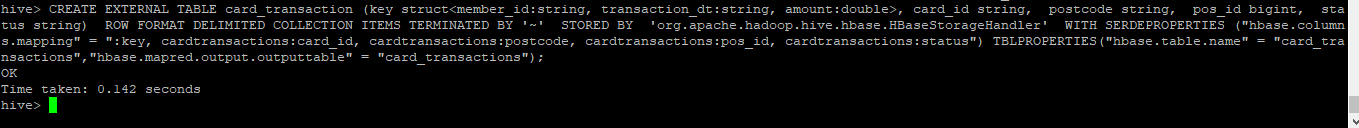


4. Create card\_transactions table (HIVE-HABSE integrated table)

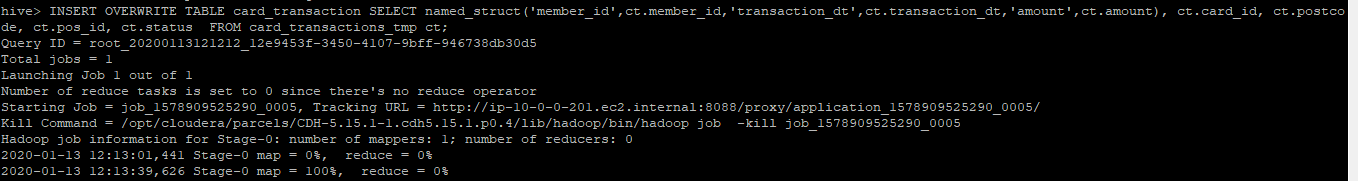


NOTE: For creating HIVE-HBASE integrated table, we need to first create a HBase table and then integrate with hive table, HIVE external creation works only on existing HBase table.

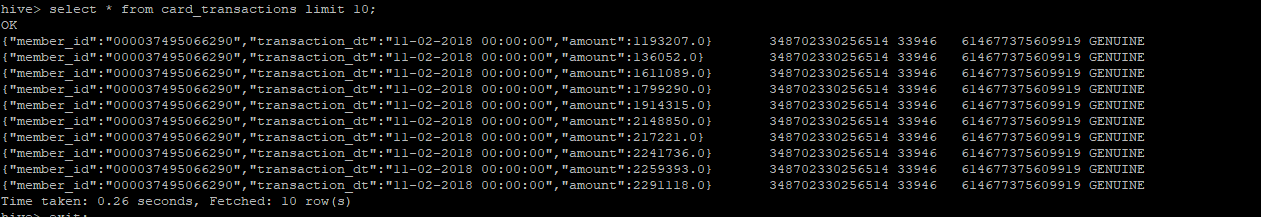
Creating external table in hive:



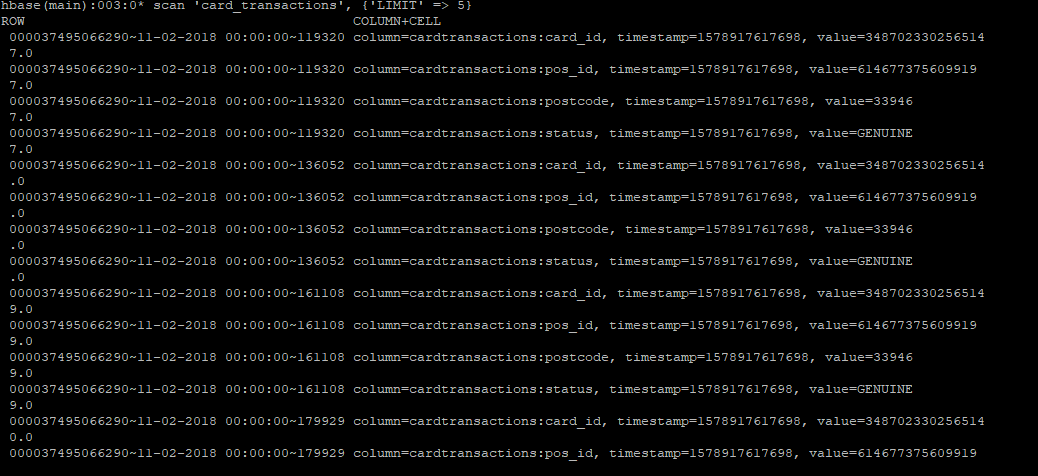
5. Insert data from card\_transactions\_tmp table to hive-hbase table



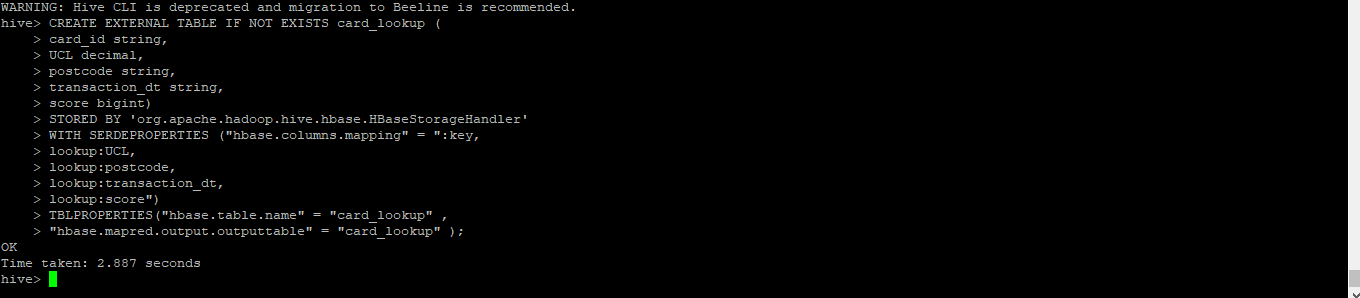
6. Check if the data is inserted in hive



7. Check if the data is inserted in hbase

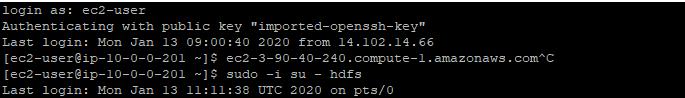


8. Script to create final lookup table (HIVE-HABSE integrated)

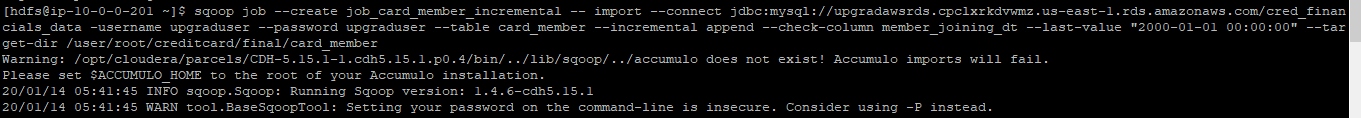


# TASK 2 ScreenShots

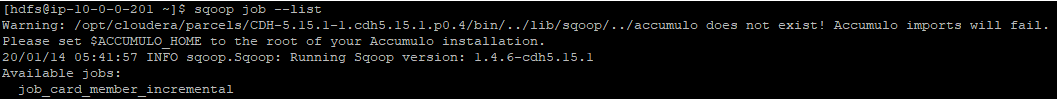
1. Switching to hdfs user



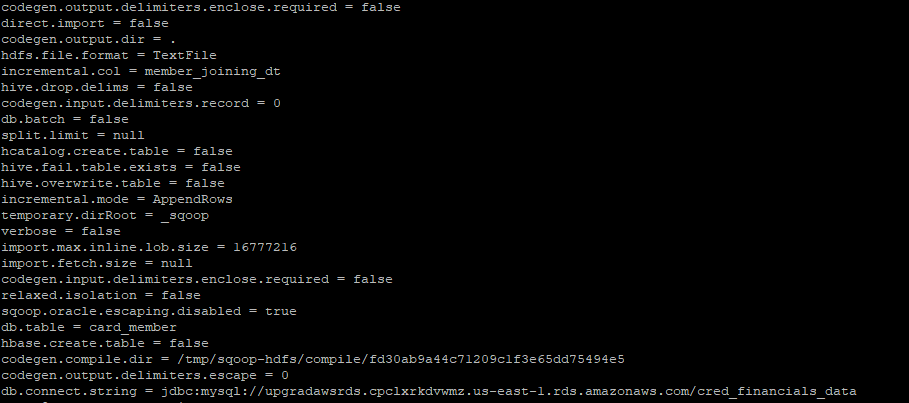
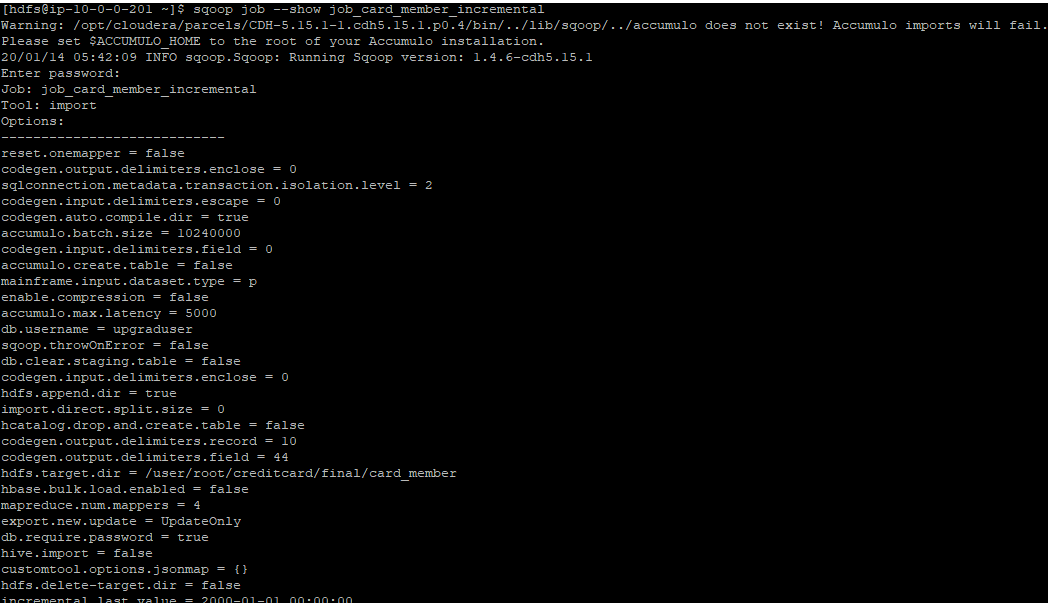
2. Create Sqoop job to import data incrementally from AWS RDS

#> 

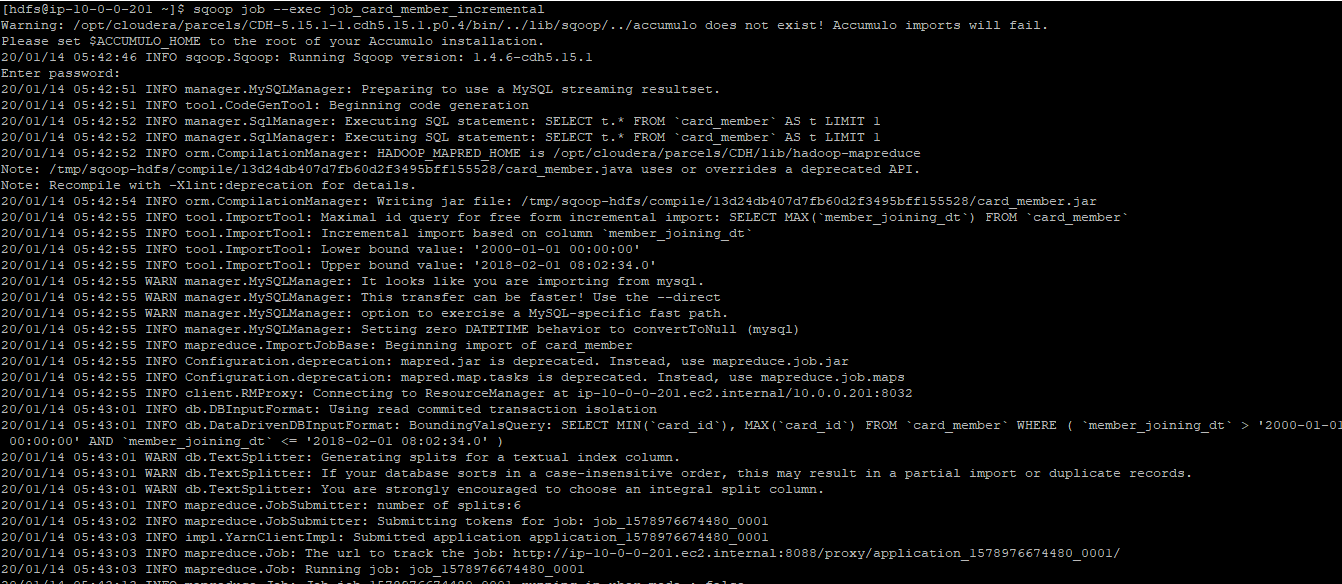
3. Look for the listed Sqoop job

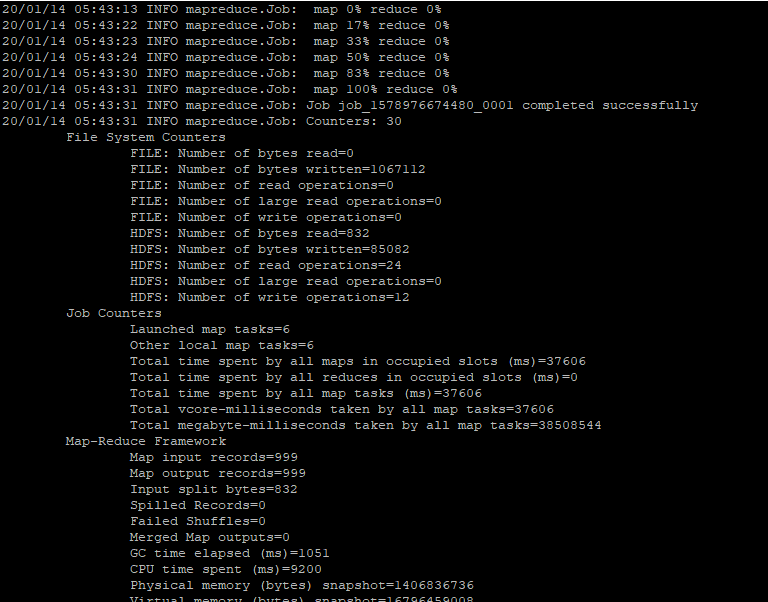


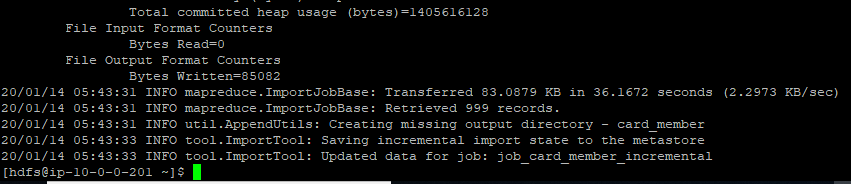
4. View the configuration of the job



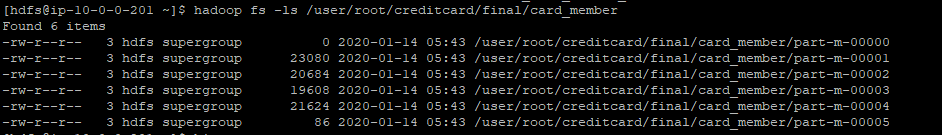
5. Execute the job to load initial data



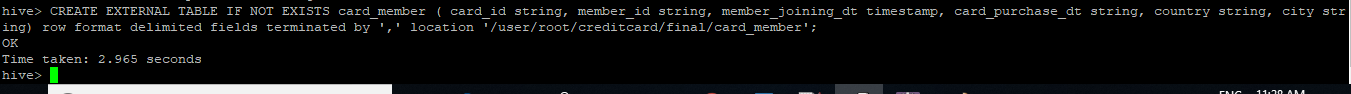




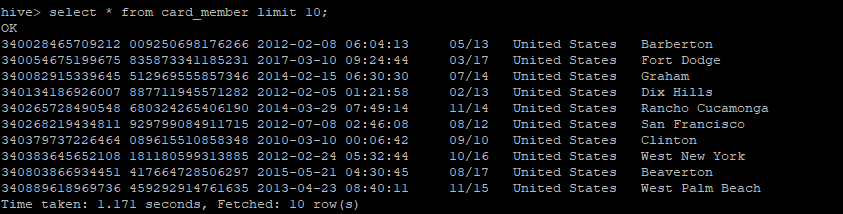
6. List contents of /user/root/creditcard/card\_member, to check if the import is working



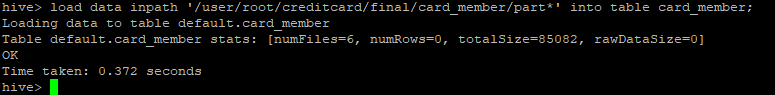
7. Create card\_member table



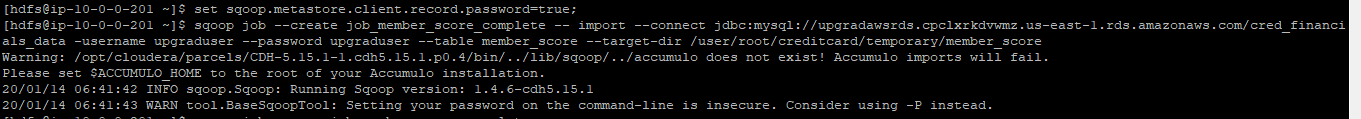
8. Check if the data is inserted (Data automatically loaded into table)



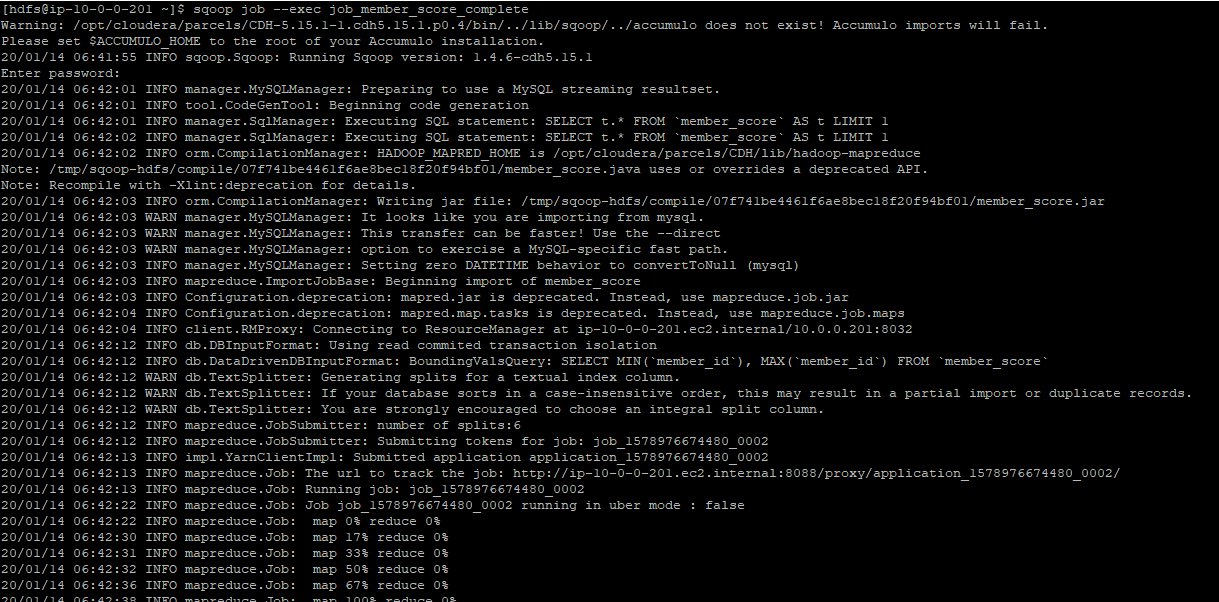
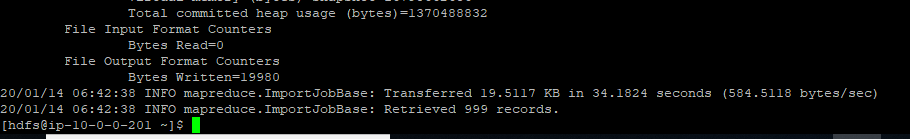
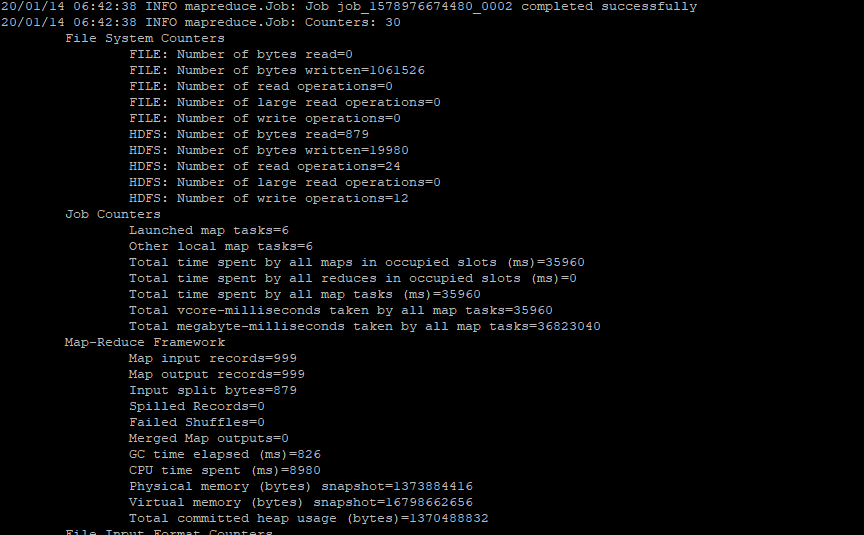
9. Script to insert/load data from hadoop into card\_member table (Load data is not required)



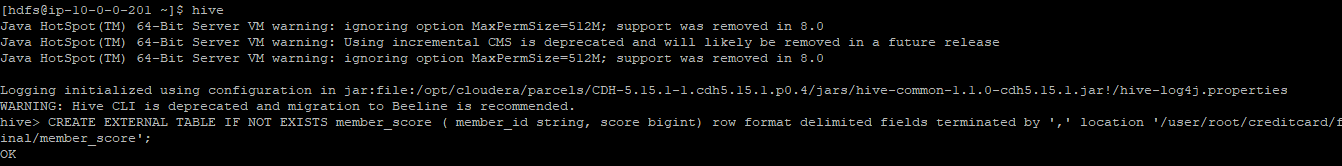
10. Create Sqoop job to import member\_score data from AWS RDS ( It need to be refreshed in 4 hours)



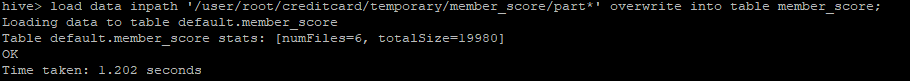
11. Execute to load the initial data

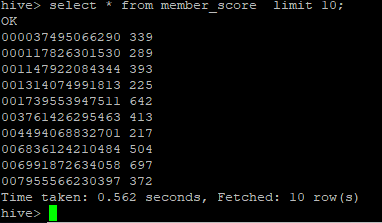
12. Create member\_score table



13. Load member\_score table



14. Check if the data is inserted

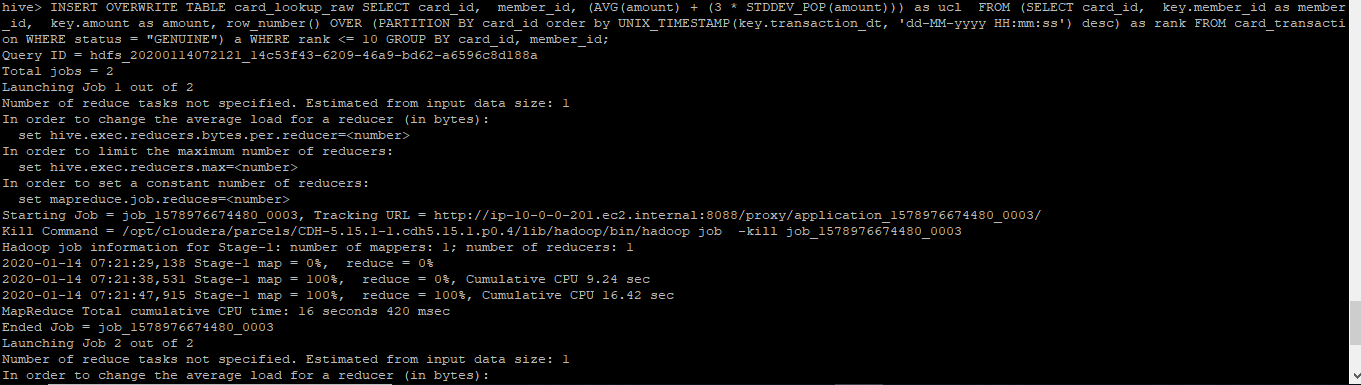


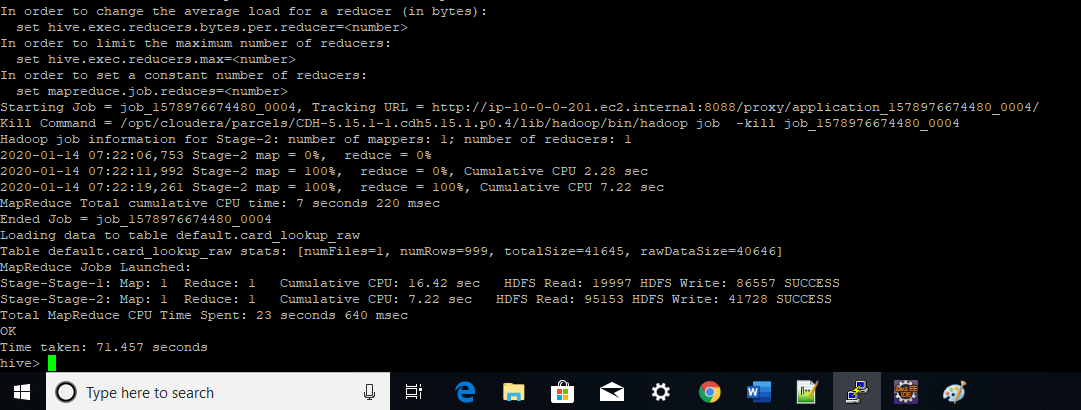
# TASK 3 ScreenShots

1. Create raw lookup table

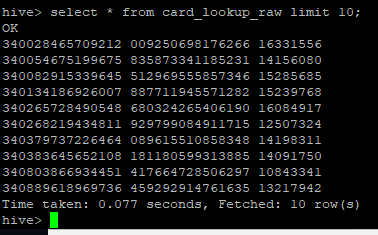


2. Insert data into card\_lookup\_raw table

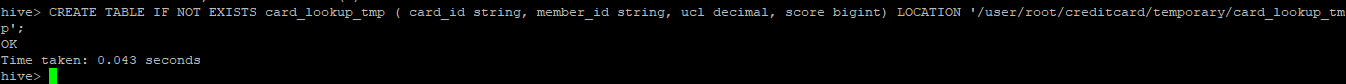




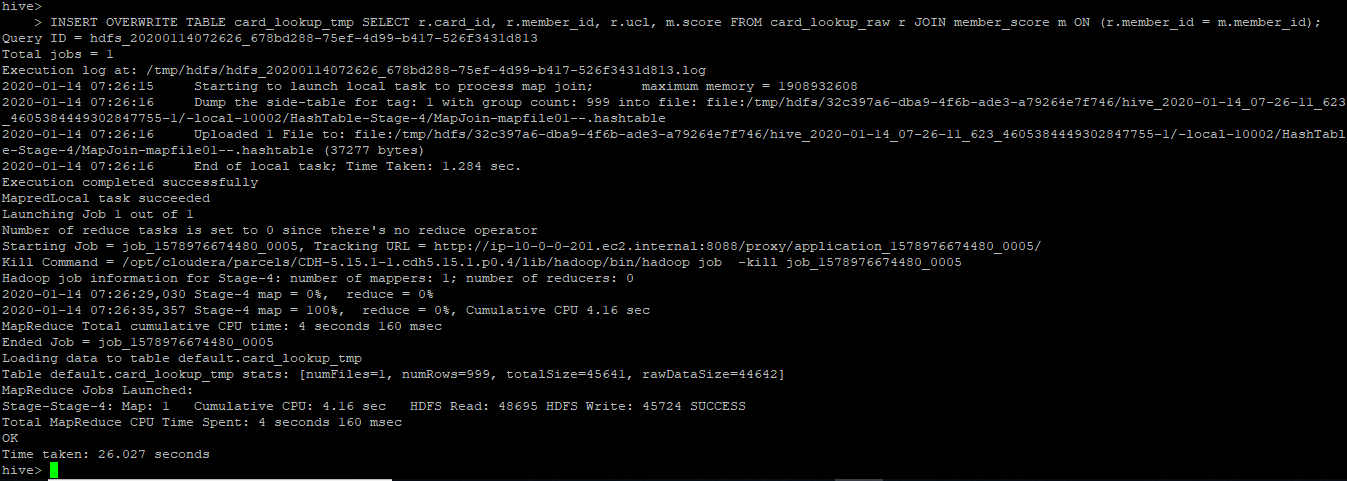
3. Check if the data is inserted



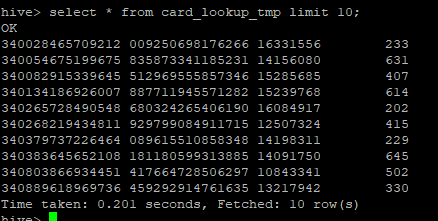
4. Create temporary lookup table



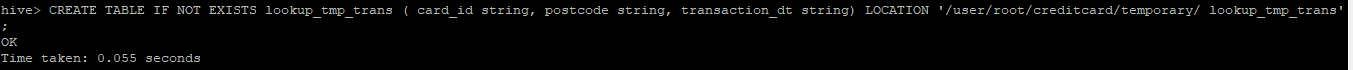
5. Insert UCL, score data into card\_lookup\_tmp by joining member\_score and card\_lookup\_raw tables



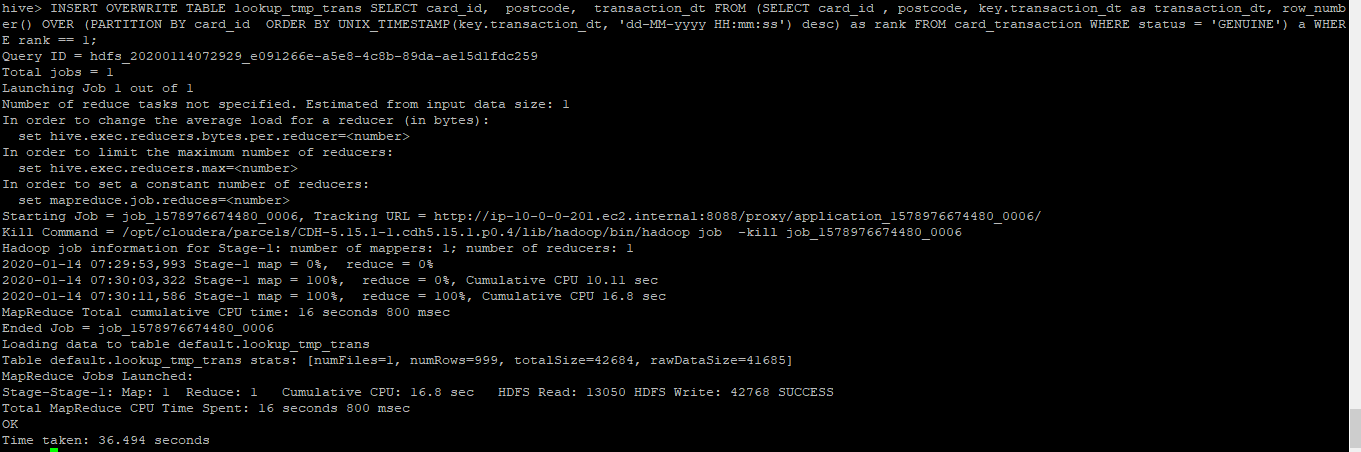
6. Check if the data is inserted



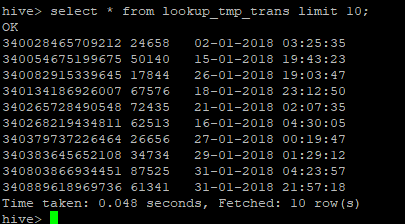
7. Create lookup temporary table for card transaction



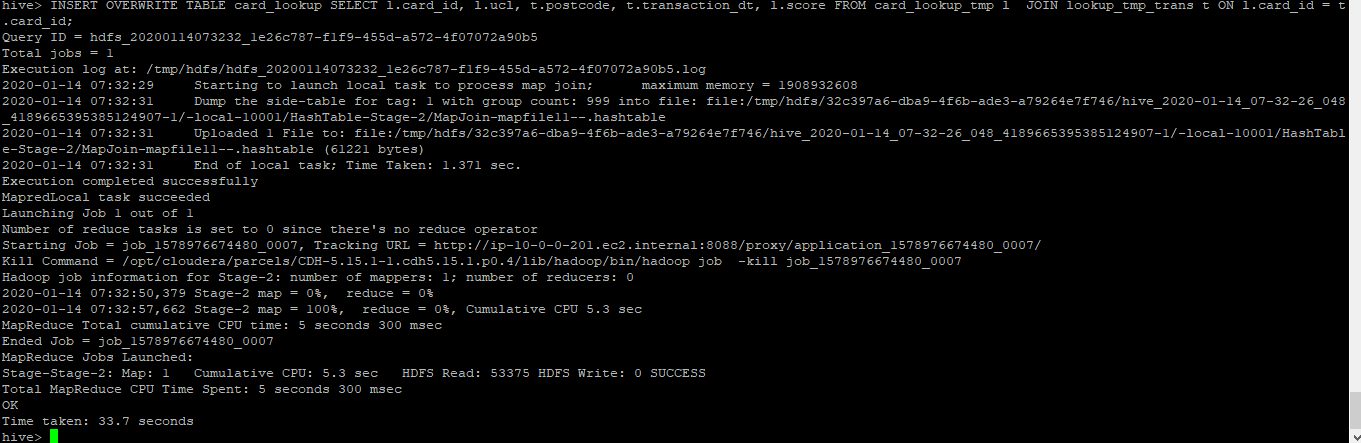
8. Insert into lookup\_tmp\_trans, a record with latest GENUINE transaction date and postcode



9. Check if the data is inserted correctly



10. Insert into final lookup table (hive-hbase integrated)



11. Check if the data is inserted correctly

