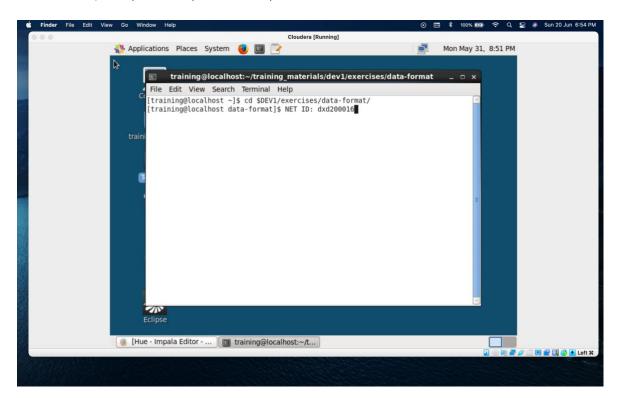
## File Formatting Divyansh Dahiya

## LAB Chapter 07: FILE FORMAT

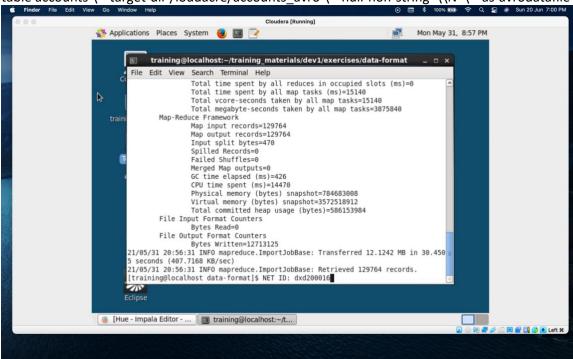
## Select a Format for a Data File

In this lab I will use import data in Avro format and create an Impala table to access it.

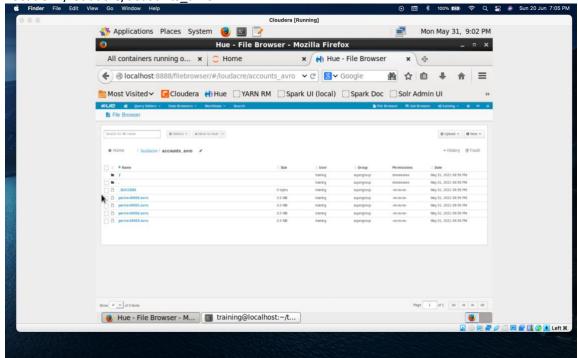
1. First, I opened the terminal and ran the following command to change the directory. Location: cd \$DEV1/exercises/data-format/



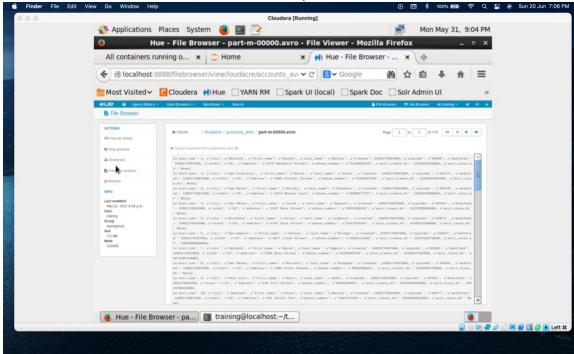
2. Then, using Sqoop I ran the following command to import the accounts table in Avro data format. Command: sqoop import \ --connect jdbc:mysql://localhost/loudacre \ --username training --password training \ -- table accounts \ --target-dir /loudacre/accounts\_avro \ --null-non-string '\\N' \ --as-avrodatafile



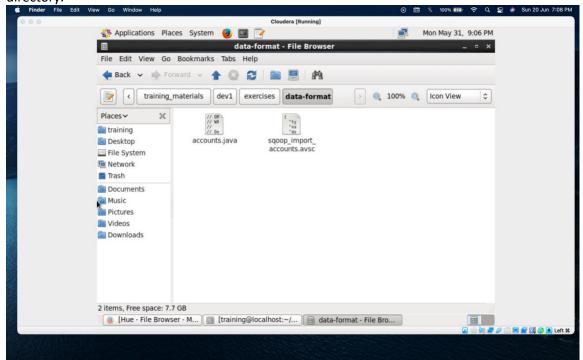
3. Then, I opened the Hue Web Interface to view the imported files in the HDFS. Location: /loudacre/accounts\_avro



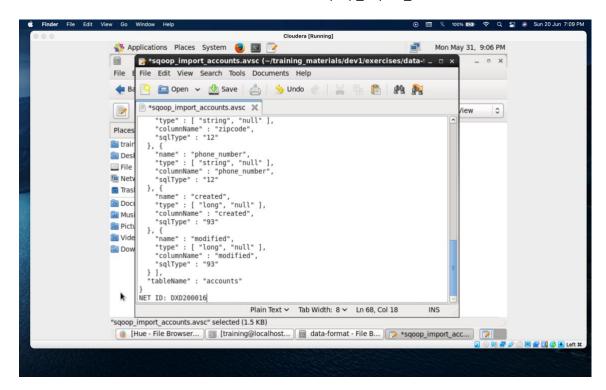
4. Below is the screenshot of the contents of the file part-m-00000.avro.



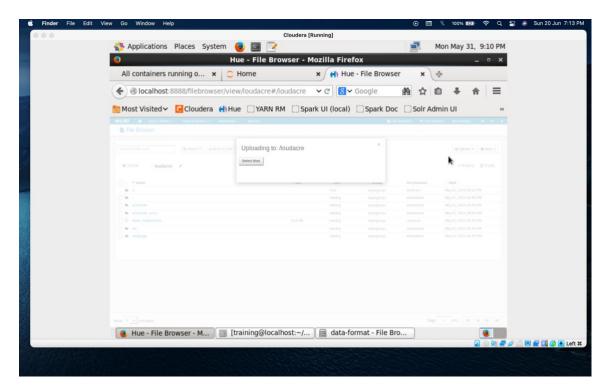
5. Below is the screenshot of the schema generated sqoop\_import\_accounts.avsc, it was stored in the current local directory.



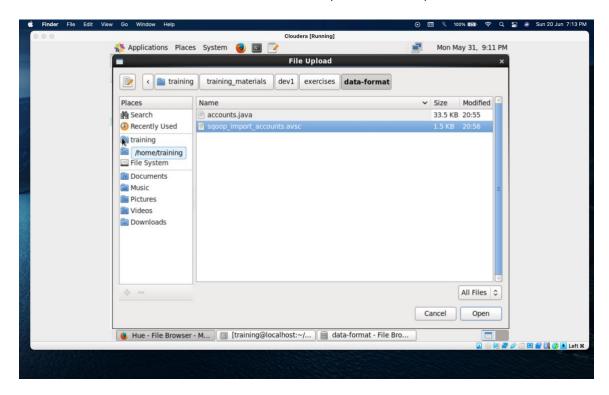
6. Below is the screenshot of the contents inside the sqoop\_import\_accounts.avsc file.



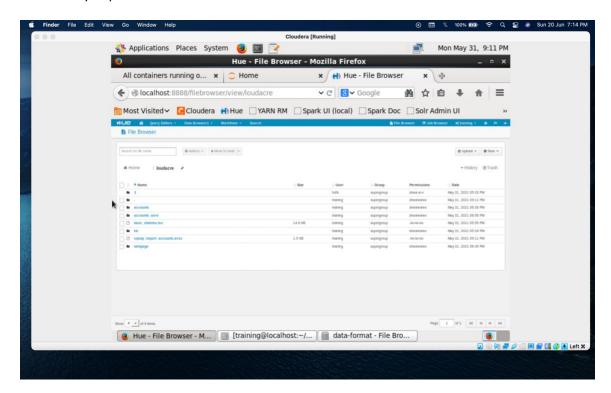
7. Then I opened the Hue Web Interface and opened the /loudacre directory and clicked on the upload button.



8. Then, I selected the schema file and clicked on the open button to upload the file.

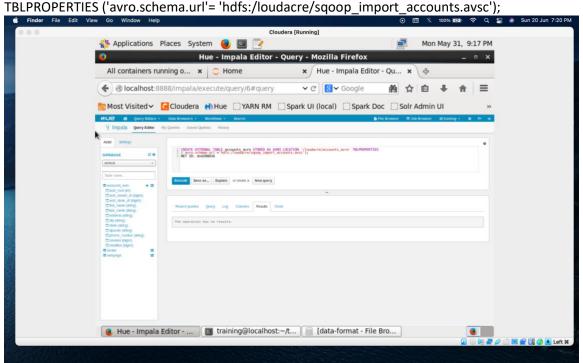


9. Below is the screenshot of the contents inside the /loudacre directory. The sqoop\_import\_accounts.avsc file is successfully imported.

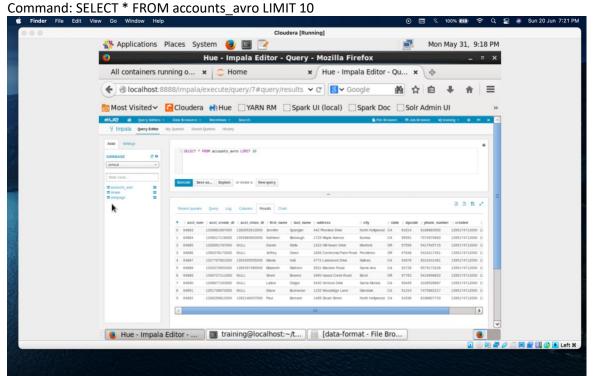


10. Then I opened the Impala Query Editor and ran the following query to create the table using schema imported in the previous step.

Command: CREATE EXTERNAL TABLE accounts\_avro STORED AS AVRO LOCATION '/loudacre/accounts\_avro'



11. Then, ran the following command to view the first 10 records inside the accounts\_avro table.



12. Finally, I ran the following command to list all the columns and their data types in the accounts\_avro table. Command: DESCRIBE FOMATTED accounts\_avro

