

BUAN 6346 Big Data Analytics PHASE 2

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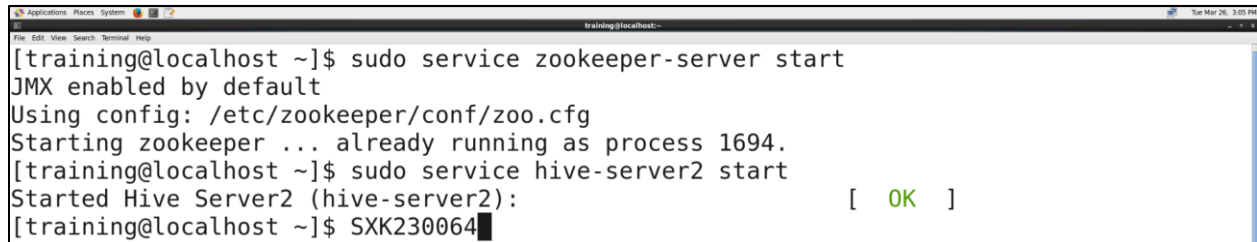
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CHAPTER 6 - CREATE AND POPULATE TABLES IN IMPALA OR HIVE

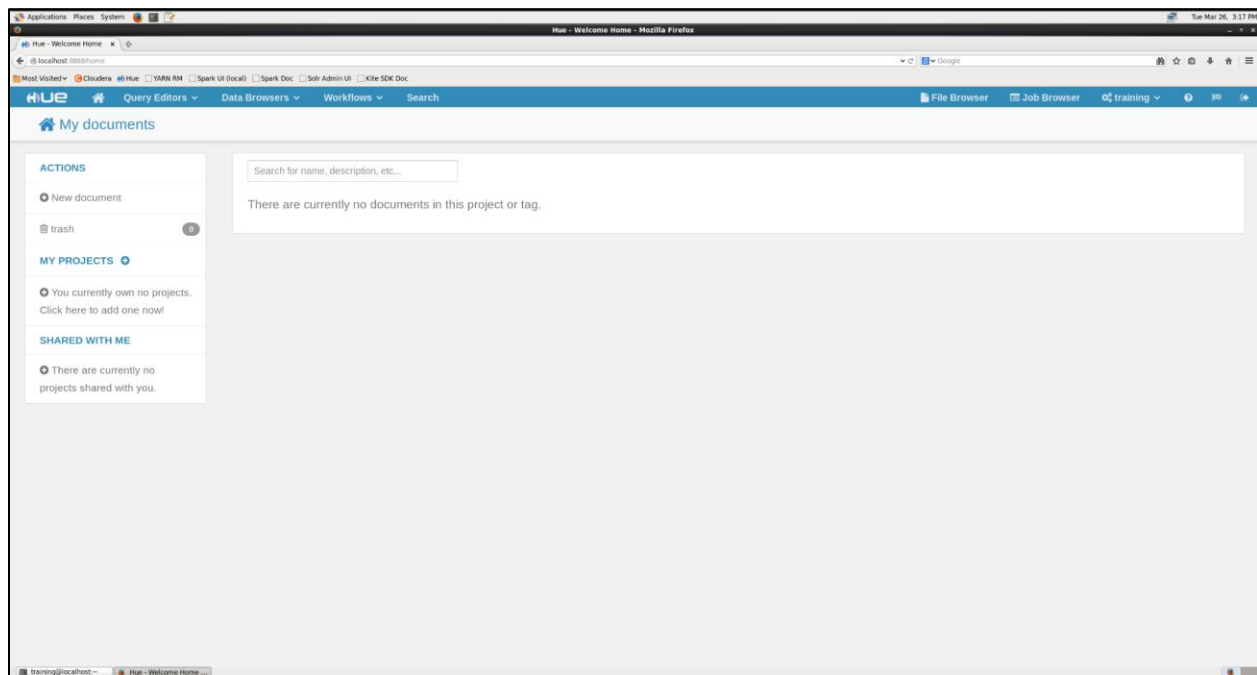
Create and Query a Table in Impala or Hive

1. Started the Hive server by executing the necessary commands in the terminal.

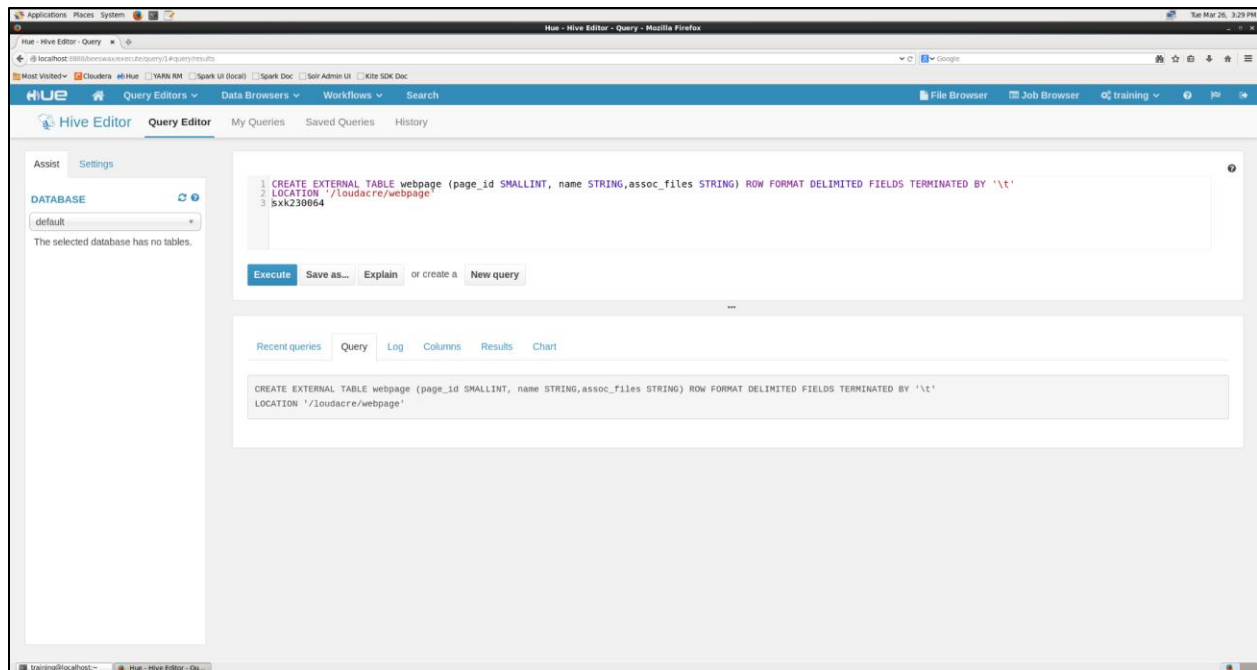


```
[training@localhost ~]$ sudo service zookeeper-server start
JMX enabled by default
Using config: /etc/zookeeper/conf/zoo.cfg
Starting zookeeper ... already running as process 1694.
[training@localhost ~]$ sudo service hive-server2 start
Started Hive Server2 (hive-server2): [ OK ]
[training@localhost ~]$ SXX230064
```

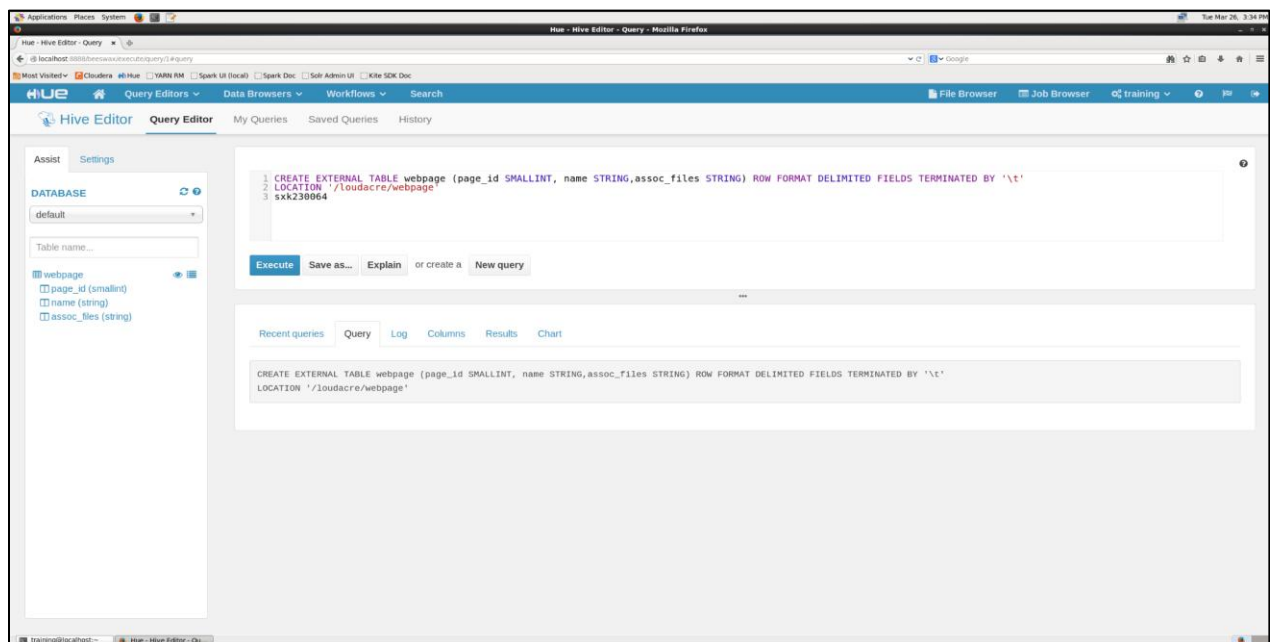
2. Accessed the HUE interface in Chrome, clicking on the HUE icon to navigate to the homepage.



3. Opened the query editor menu, selecting "Hive" from the dropdown, which directed me to the Hive query editor. Then, I entered an SQL command in the query editor pane to create a table for the previously imported webpage data.

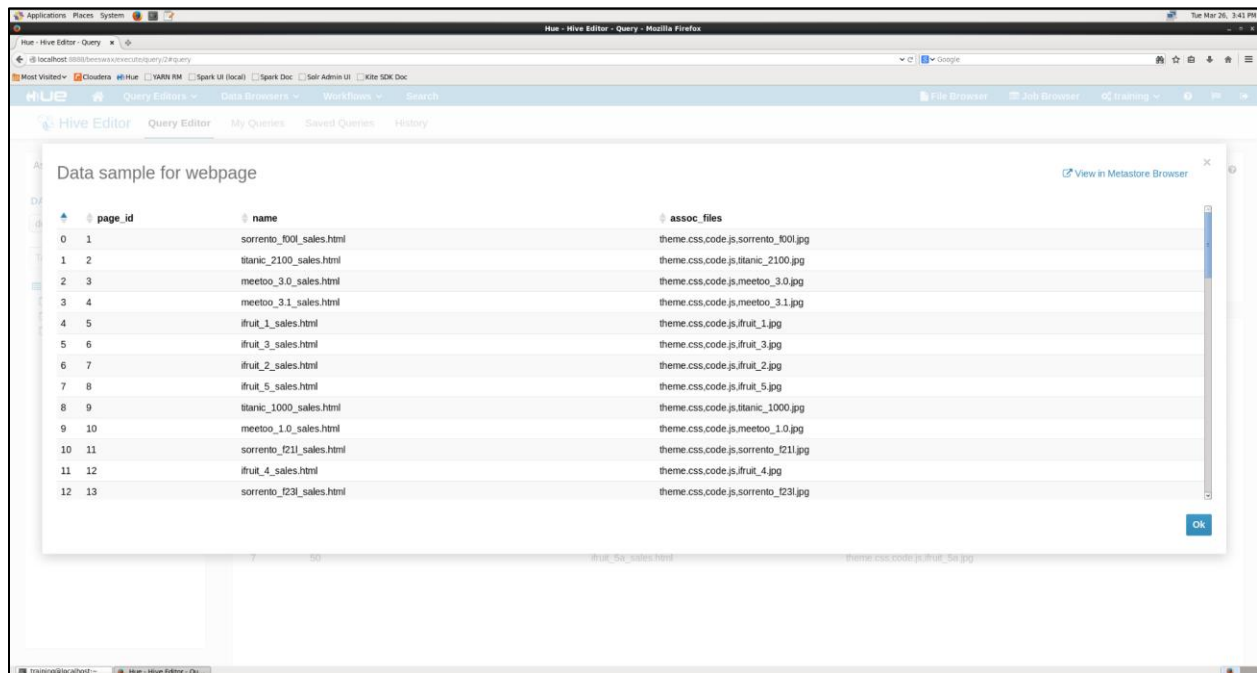


4. Executed the query by clicking the "Execute" button. To view the newly created table, I clicked on the 'refresh' button next to 'Database' on the left-hand side of the page, locating the webpage table with columns (page_id), name, and (assoc_files).I clicked on the webpage table to review the column definitions which reside below it.



5. Initiated a test query by clicking the 'New Query' button, observing the findings in the "Results" tab.

6. Previewed sample data by clicking on the preview sample data icon adjacent to the table name.

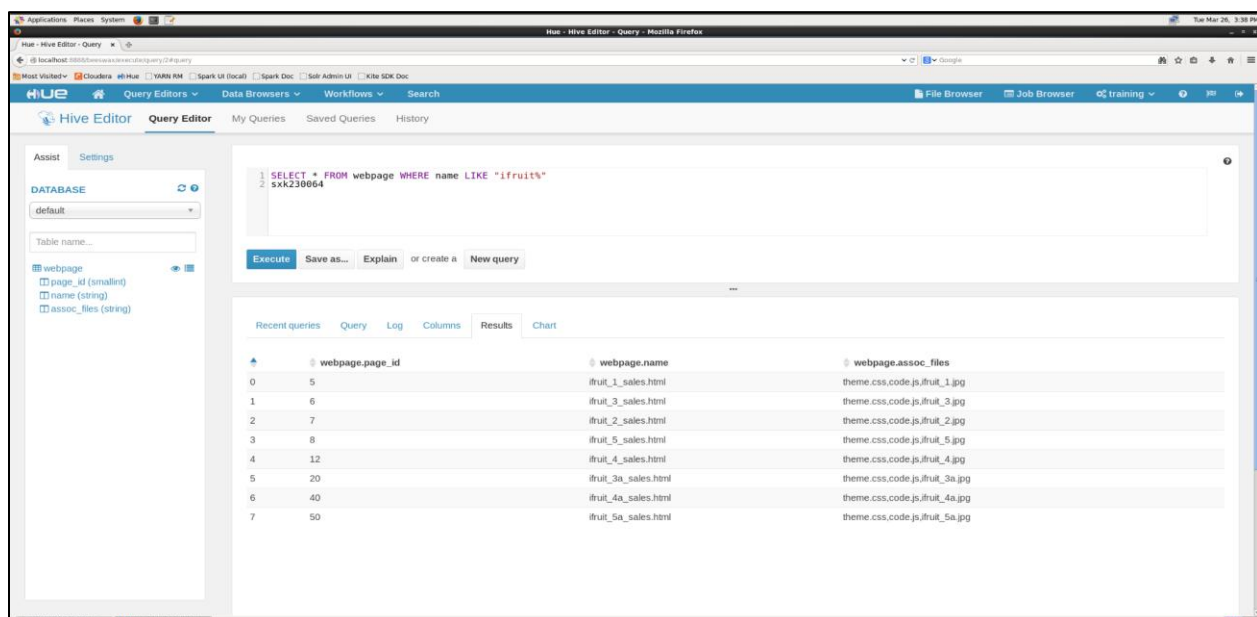


Data sample for webpage

| page_id | name | assoc_files |
|---------|--------------------------|-------------------------------------|
| 1 | sorrento_100_sales.html | theme.css,code.js,sorrento_100.jpg |
| 2 | titanic_2100_sales.html | theme.css,code.js,titanic_2100.jpg |
| 3 | meetoo_3.0_sales.html | theme.css,code.js,meetoo_3.0.jpg |
| 4 | meetoo_3.1_sales.html | theme.css,code.js,meetoo_3.1.jpg |
| 5 | ifruit_1_sales.html | theme.css,code.js,ifruit_1.jpg |
| 6 | ifruit_3_sales.html | theme.css,code.js,ifruit_3.jpg |
| 7 | ifruit_2_sales.html | theme.css,code.js,ifruit_2.jpg |
| 8 | ifruit_5_sales.html | theme.css,code.js,ifruit_5.jpg |
| 9 | titanic_1000_sales.html | theme.css,code.js,titanic_1000.jpg |
| 10 | meetoo_1.0_sales.html | theme.css,code.js,meetoo_1.0.jpg |
| 11 | sorrento_1211_sales.html | theme.css,code.js,sorrento_1211.jpg |
| 12 | ifruit_4_sales.html | theme.css,code.js,ifruit_4.jpg |
| 13 | sorrento_1231_sales.html | theme.css,code.js,sorrento_1231.jpg |

Use Sqoop to Import Directly into Hive and Impala

7. Imported the device table directly into the Hive metastore using the terminal, employing the below command.



SELECT * FROM webpage WHERE name LIKE 'ifruit%'

| webpage.page_id | webpage.name | webpage.assoc_files |
|-----------------|----------------------|---------------------------------|
| 5 | ifruit_1_sales.html | theme.css,code.js,ifruit_1.jpg |
| 6 | ifruit_3_sales.html | theme.css,code.js,ifruit_3.jpg |
| 7 | ifruit_2_sales.html | theme.css,code.js,ifruit_2.jpg |
| 8 | ifruit_5_sales.html | theme.css,code.js,ifruit_5.jpg |
| 12 | ifruit_4_sales.html | theme.css,code.js,ifruit_4.jpg |
| 20 | ifruit_3a_sales.html | theme.css,code.js,ifruit_3a.jpg |
| 40 | ifruit_4a_sales.html | theme.css,code.js,ifruit_4a.jpg |
| 50 | ifruit_5a_sales.html | theme.css,code.js,ifruit_5a.jpg |

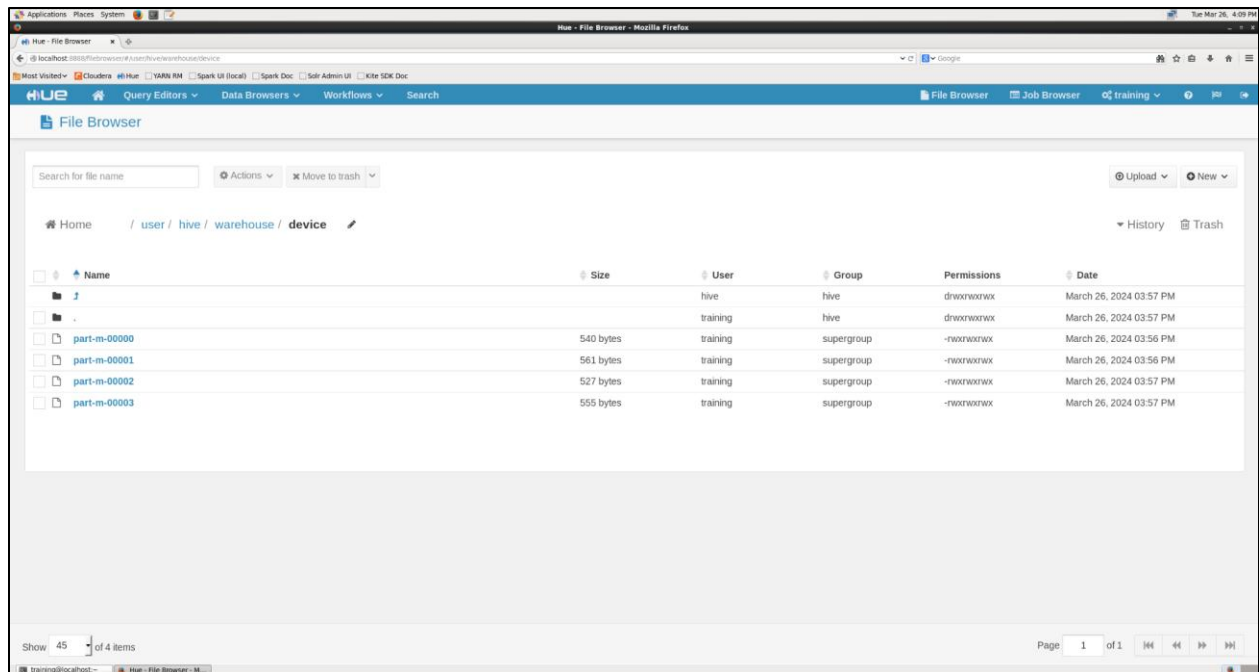
```
training@localhost:~$ sudo service zookeeper-server start
JMX enabled by default
Using config: /etc/zookeeper/conf/zoo.cfg
Starting zookeeper ... already running as process 1694.
[training@localhost ~]$ sudo service hive-server2 start
Started Hive Server2 (hive-server2): [ OK ]
[training@localhost ~]$ sqoop import \
> --connect jdbc:mysql://localhost/loudacre \
> --username training --password training \
> --fields-terminated-by '\t' \
> --table device \
> --hive-import
24/03/26 15:55:46 INFO sqoop.Sqoop: Running Sqoop version: 1.4.5-cdh5.4.3
24/03/26 15:55:46 WARN tool.BaseSqoopTool: Setting your password on the command-line is
insecure. Consider using -P instead.
24/03/26 15:55:47 INFO manager.MySQLManager: Preparing to use a MySQL streaming results
et.
24/03/26 15:55:47 INFO tool.CodeGenTool: Beginning code generation
24/03/26 15:55:48 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `de
vice` AS t LIMIT 1
24/03/26 15:55:48 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `de
vice` AS t LIMIT 1
24/03/26 15:55:48 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /usr/lib/hadoop-ma
preduce
Note: /tmp/sqoop-training/compile/c324fb8a8e00915bc747f0ed7adf9641/device.java uses or
overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
24/03/26 15:55:54 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-training/co
mpile/c324fb8a8e00915bc747f0ed7adf9641/device.jar
24/03/26 15:55:54 WARN manager.MySQLManager: It looks like you are importing from mysql
.
24/03/26 15:55:54 WARN manager.MySQLManager: This transfer can be faster! Use the --dir
```

```
Map output records=50
Input split bytes=464
Spilled Records=0
Failed Shuffles=0
Merged Map outputs=0
GC time elapsed (ms)=978
CPU time spent (ms)=6330
Physical memory (bytes) snapshot=485011456
Virtual memory (bytes) snapshot=3378053120
Total committed heap usage (bytes)=191889408

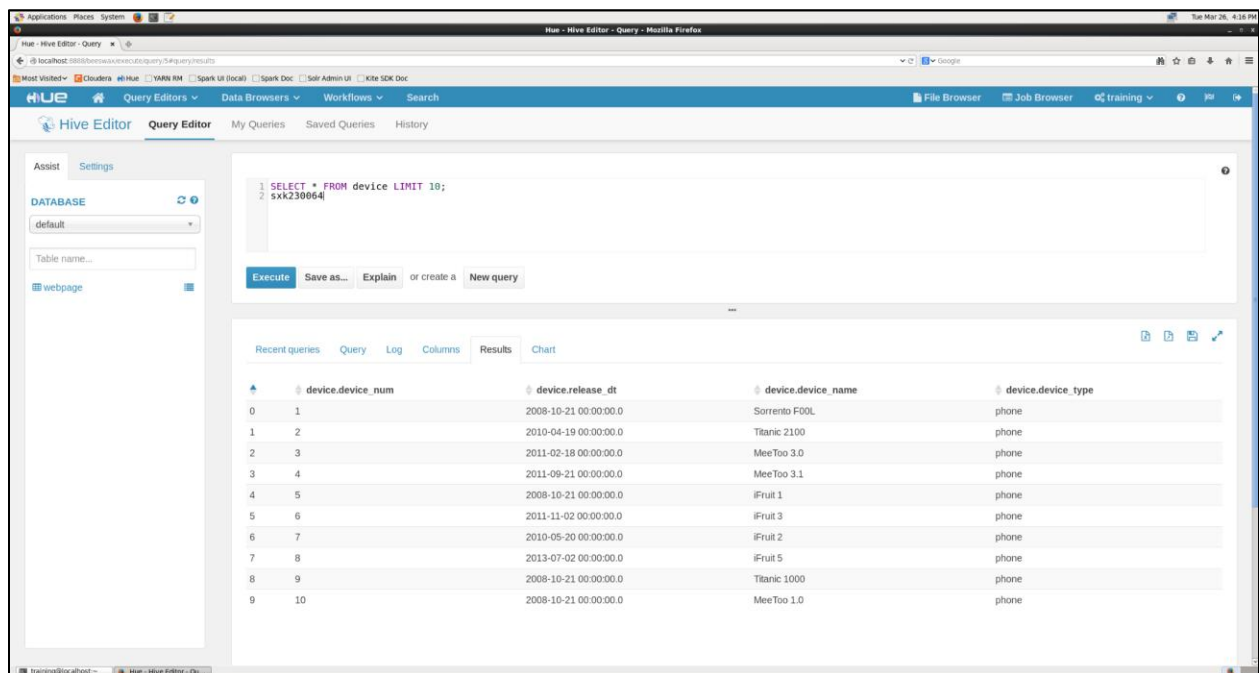
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=2183
24/03/26 15:57:22 INFO mapreduce.ImportJobBase: Transferred 2.1318 KB in 84.5297 seconds (25.8252 bytes/sec)
24/03/26 15:57:22 INFO mapreduce.ImportJobBase: Retrieved 50 records.
24/03/26 15:57:22 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `device` AS t LIMIT 1
24/03/26 15:57:22 WARN hive.TableDefWriter: Column release dt had to be cast to a less precise type in Hive
24/03/26 15:57:23 INFO hive.HiveImport: Loading uploaded data into Hive

Logging initialized using configuration in jar:file:/usr/lib/hive/lib/hive-common-1.1.0-cdh5.4.3.jar!/hive-log4j.properties
OK
Time taken: 5.057 seconds
Loading data to table default.device
chgrp: changing ownership of 'hdfs://localhost:8020/user/hive/warehouse/device/part-m-00000': User does not belong to hive
chgrp: changing ownership of 'hdfs://localhost:8020/user/hive/warehouse/device/part-m-00001': User does not belong to hive
chgrp: changing ownership of 'hdfs://localhost:8020/user/hive/warehouse/device/part-m-00002': User does not belong to hive
chgrp: changing ownership of 'hdfs://localhost:8020/user/hive/warehouse/device/part-m-00003': User does not belong to hive
Table default.device stats: [numFiles=4, totalSize=2183]
OK
Time taken: 2.307 seconds
[training@localhost ~]$ sxx230064
```

- Utilized HUE to navigate to the specific data location (/user/hive/warehouse/device), to review the imported data files residing in the default hive warehouse.



9. Ran a test query to view all columns of the device table.



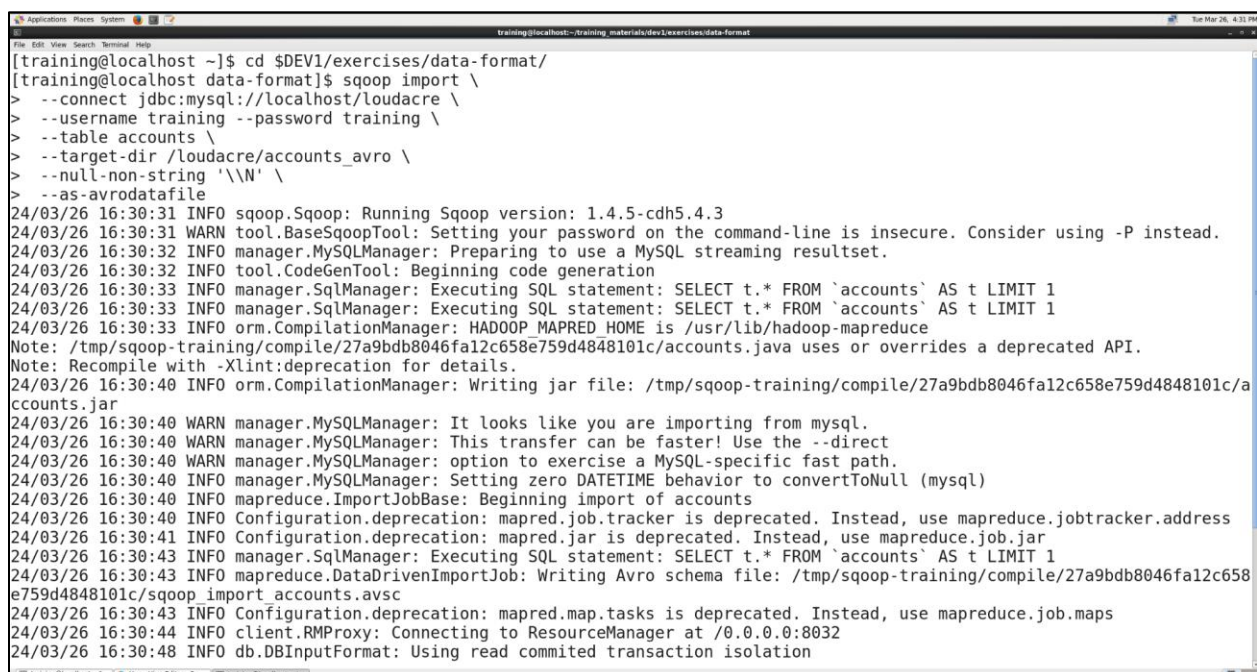
CHAPTER 7 - SELECT A FORMAT FOR A DATA FILE

1. I used the 'cd' command to navigate to the exercise directory.

A terminal window titled 'training@localhost ~ training_materials/dev1/exercises/data-format' showing the user navigating to the exercise directory. The commands and output are: [training@localhost ~]\$ cd \$DEV1/exercises/data-format/ and [training@localhost data-format]\$ sxk230064.

```
[training@localhost ~]$ cd $DEV1/exercises/data-format/
[training@localhost data-format]$ sxk230064
```

2. Utilizing the Sqoop import command, I imported the accounts table into an Avro data format.

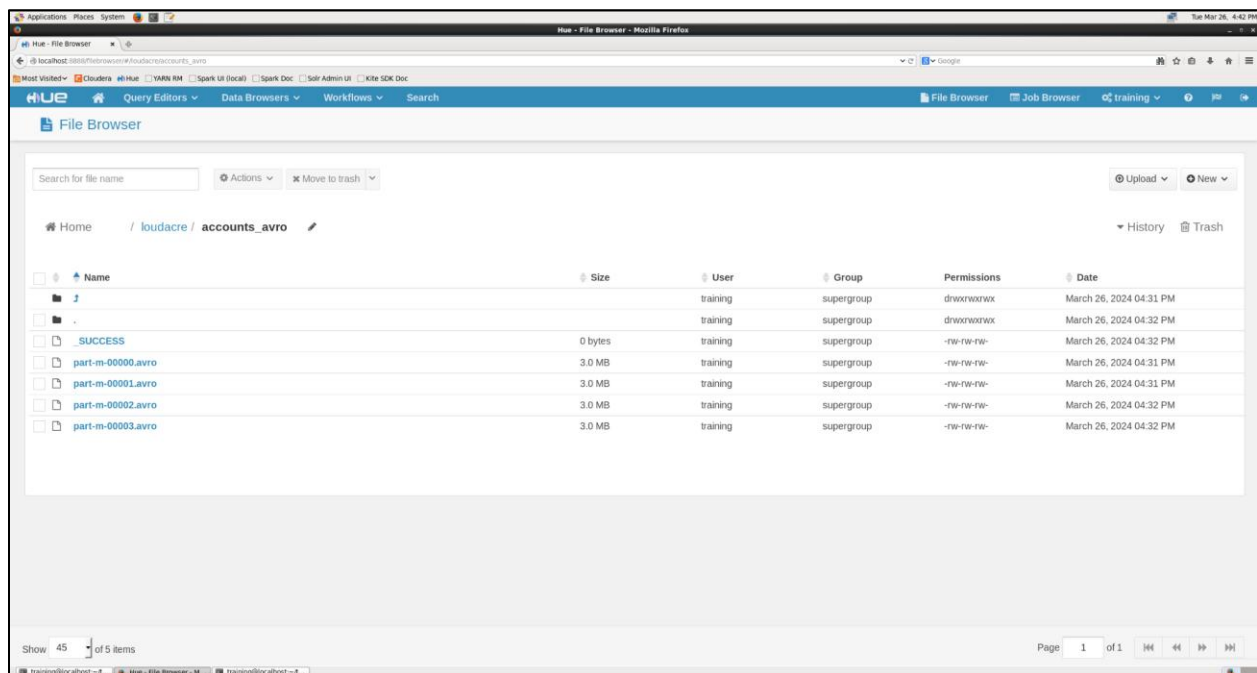
A terminal window titled 'training@localhost ~ training_materials/dev1/exercises/data-format' showing the execution of the 'sqoop import' command. The command is: [training@localhost data-format]\$ sqoop import \ --connect jdbc:mysql://localhost/loudacre \ --username training --password training \ --table accounts \ --target-dir /loudacre/accounts_avro \ --null-non-string '\\N' \ --as-avrodatafile. The output shows various logs from sqoop, including version information, warnings about insecure password usage and deprecated APIs, and the successful completion of the import process. The final output is: 24/03/26 16:30:48 INFO db.DBInputFormat: Using read committed transaction isolation.

```
[training@localhost ~]$ cd $DEV1/exercises/data-format/
[training@localhost data-format]$ sqoop import \
> --connect jdbc:mysql://localhost/loudacre \
> --username training --password training \
> --table accounts \
> --target-dir /loudacre/accounts_avro \
> --null-non-string '\\N' \
> --as-avrodatafile
24/03/26 16:30:31 INFO sqoop.Sqoop: Running Sqoop version: 1.4.5-cdh5.4.3
24/03/26 16:30:31 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
24/03/26 16:30:32 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
24/03/26 16:30:32 INFO tool.CodeGenTool: Beginning code generation
24/03/26 16:30:33 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `accounts` AS t LIMIT 1
24/03/26 16:30:33 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `accounts` AS t LIMIT 1
24/03/26 16:30:33 INFO orm.CompilationManager: HADOOP MAPRED_HOME is /usr/lib/hadoop-mapreduce
Note: /tmp/sqoop-training/compile/27a9bdb8046fa12c658e759d4848101c/accounts.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
24/03/26 16:30:40 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-training/compile/27a9bdb8046fa12c658e759d4848101c/a
ccounts.jar
24/03/26 16:30:40 WARN manager.MySQLManager: It looks like you are importing from mysql.
24/03/26 16:30:40 WARN manager.MySQLManager: This transfer can be faster! Use the --direct
24/03/26 16:30:40 WARN manager.MySQLManager: option to exercise a MySQL-specific fast path.
24/03/26 16:30:40 INFO manager.MySQLManager: Setting zero DATETIME behavior to convertToNull (mysql)
24/03/26 16:30:40 INFO mapreduce.ImportJobBase: Beginning import of accounts
24/03/26 16:30:40 INFO Configuration.deprecation: mapred.job.tracker is deprecated. Instead, use mapreduce.jobtracker.address
24/03/26 16:30:41 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar
24/03/26 16:30:43 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `accounts` AS t LIMIT 1
24/03/26 16:30:43 INFO mapreduce.DataDrivenImportJob: Writing Avro schema file: /tmp/sqoop-training/compile/27a9bdb8046fa12c658
e759d4848101c/sqoop import accounts.avsc
24/03/26 16:30:43 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
24/03/26 16:30:44 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
24/03/26 16:30:48 INFO db.DBInputFormat: Using read committed transaction isolation
```

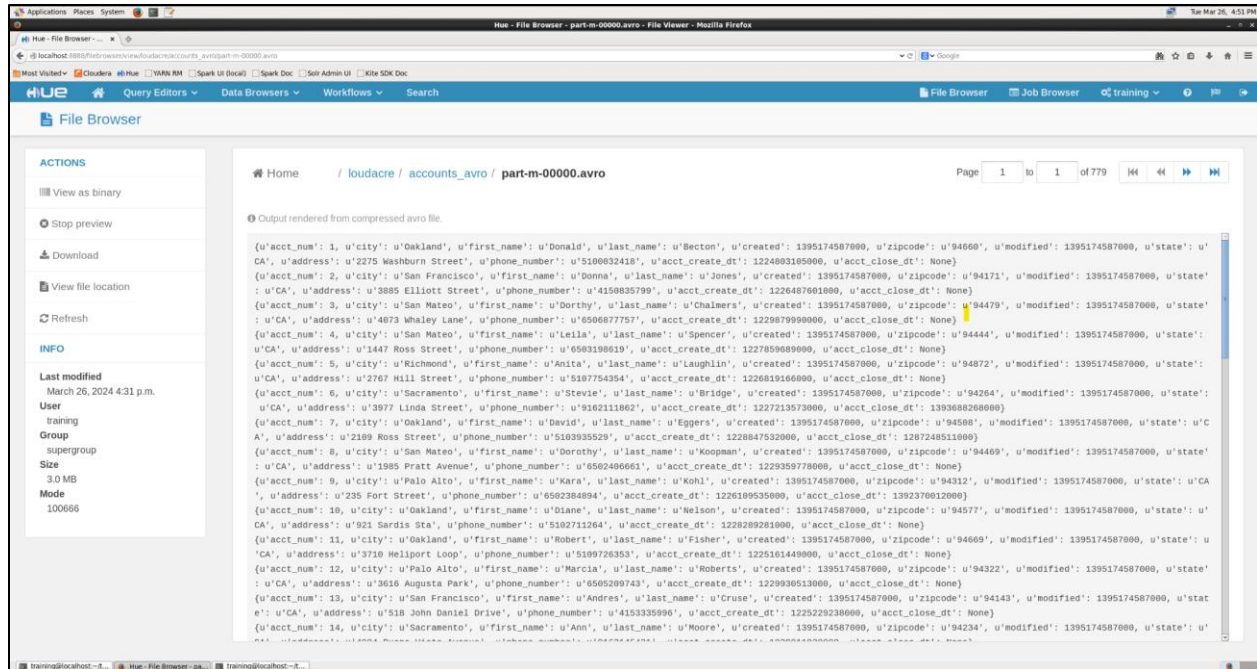


```
training@localhost:~$ cat /tmp/hadoop-training/dfs/dfsutil/dfsutil.out
HDFS: Number of bytes read=470
HDFS: Number of bytes written=12713125
HDFS: Number of read operations=16
HDFS: Number of large read operations=0
HDFS: Number of write operations=8
Job Counters
  Launched map tasks=4
  Other local map tasks=4
  Total time spent by all maps in occupied slots (ms)=0
  Total time spent by all reduces in occupied slots (ms)=0
  Total time spent by all map tasks (ms)=72307
  Total vcore-seconds taken by all map tasks=72307
  Total megabyte-seconds taken by all map tasks=18510592
Map-Reduce Framework
  Map input records=129764
  Map output records=129764
  Input split bytes=470
  Spilled Records=0
  Failed Shuffles=0
  Merged Map outputs=0
  GC time elapsed (ms)=1770
  CPU time spent (ms)=32010
  Physical memory (bytes) snapshot=542732288
  Virtual memory (bytes) snapshot=3383013376
  Total committed heap usage (bytes)=191889408
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=12713125
24/03/26 16:32:28 INFO mapreduce.ImportJobBase: Transferred 12.1242 MB in 104.4246 seconds (118.8911 KB/sec)
24/03/26 16:32:28 INFO mapreduce.ImportJobBase: Retrieved 129764 records.
[training@localhost data-format]$ sxxk230064
```

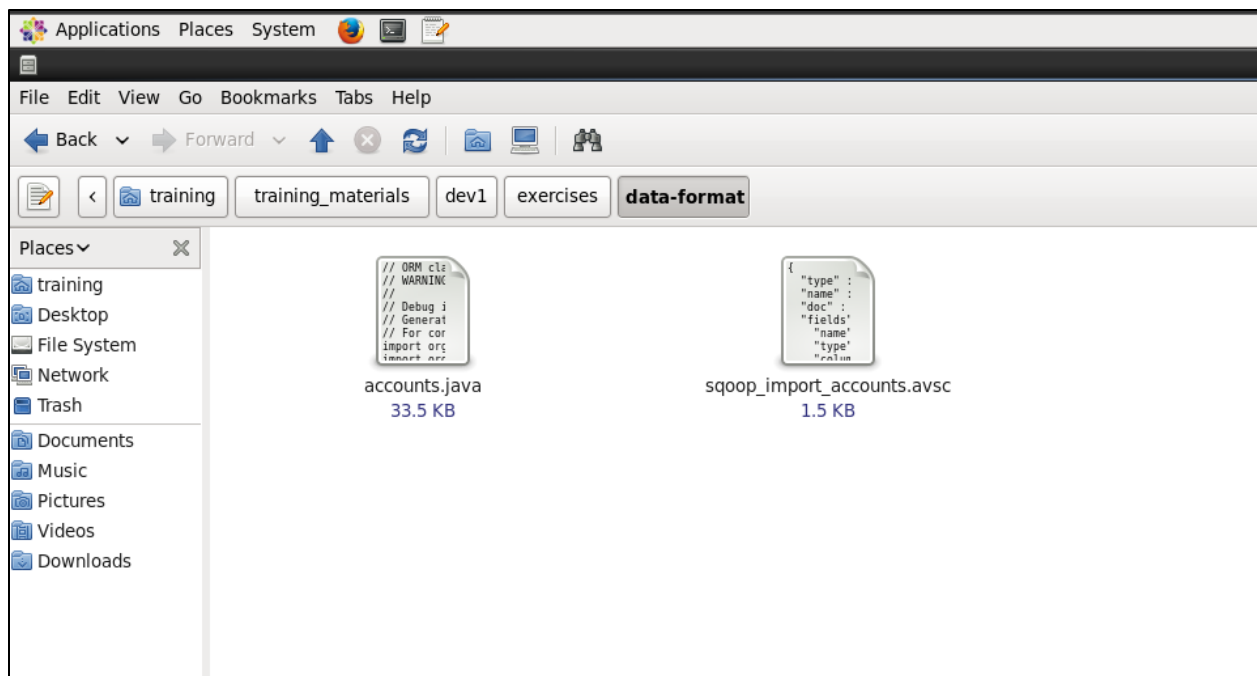
3. Then, I accessed the file browser to view the imported files by Sqoop into HDFS.



4. Upon locating the file part-m-00000.avro, I proceeded to view its contents, experiencing a lengthy loading time which may be due to large number of records.



5. Sqoop automatically generated a schema named "sqoop_import_accounts.avsc" in the current directory.



6. To examine the contents of the generated schema file, I accessed and viewed it accordingly.

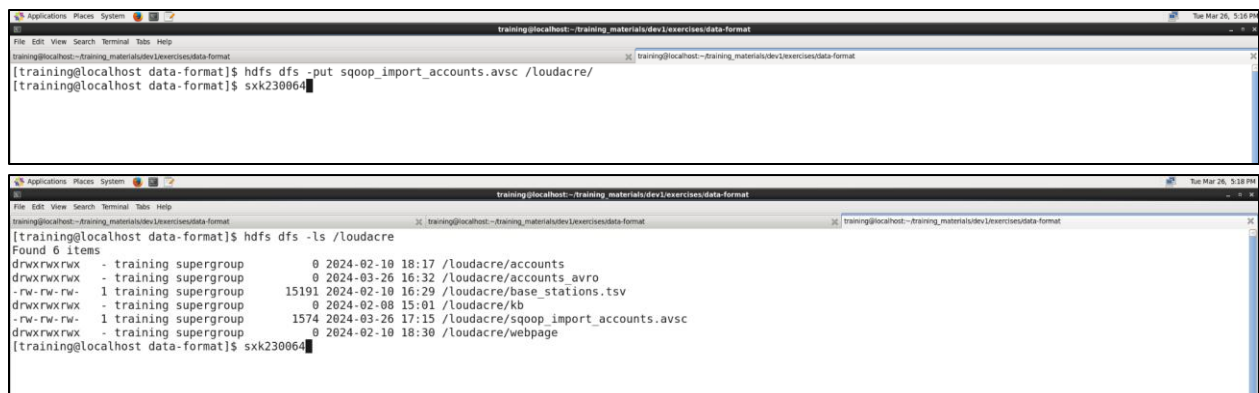


```

{
  "type": "record",
  "name": "sqoop import accounts",
  "doc": "Sqoop import of accounts",
  "fields": [
    {
      "name": "acct num",
      "type": [ "int", "null" ],
      "columnName": "acct_num",
      "sqlType": "4"
    },
    {
      "name": "acct create dt",
      "type": [ "long", "null" ],
      "columnName": "acct_create_dt",
      "sqlType": "93"
    },
    {
      "name": "acct close dt",
      "type": [ "long", "null" ],
      "columnName": "acct_close_dt",
      "sqlType": "93"
    },
    {
      "name": "first name",
      "type": [ "string", "null" ],
      "columnName": "first_name",
      "sqlType": "12"
    },
    {
      "name": "last name",
      "type": [ "string", "null" ],
      "columnName": "last_name",
      "sqlType": "12"
    },
    {
      "name": "address",
      "type": [ "string", "null" ],
      "columnName": "address",
      "sqlType": "12"
    },
    {
      "name": "city",
      "type": [ "string", "null" ],
      "columnName": "city",
      "sqlType": "12"
    },
    {
      "name": "state",
      "type": [ "string", "null" ],
      "columnName": "state",
      "sqlType": "12"
    },
    {
      "name": "zipcode",
      "type": [ "string", "null" ],
      "columnName": "zipcode",
      "sqlType": "12"
    },
    {
      "name": "phone number",
      "type": [ "string", "null" ],
      "columnName": "phone_number",
      "sqlType": "12"
    },
    {
      "name": "created",
      "type": [ "long", "null" ],
      "columnName": "created",
      "sqlType": "93"
    },
    {
      "name": "modified",
      "type": [ "long", "null" ],
      "columnName": "modified",
      "sqlType": "93"
    }
  ],
  "tableName": "accounts"
}

```

- Employing the '-put' command, I copied the schema file to the /loudacre directory in HDFS. Utilizing the '-ls' command, I verified the successful transfer.



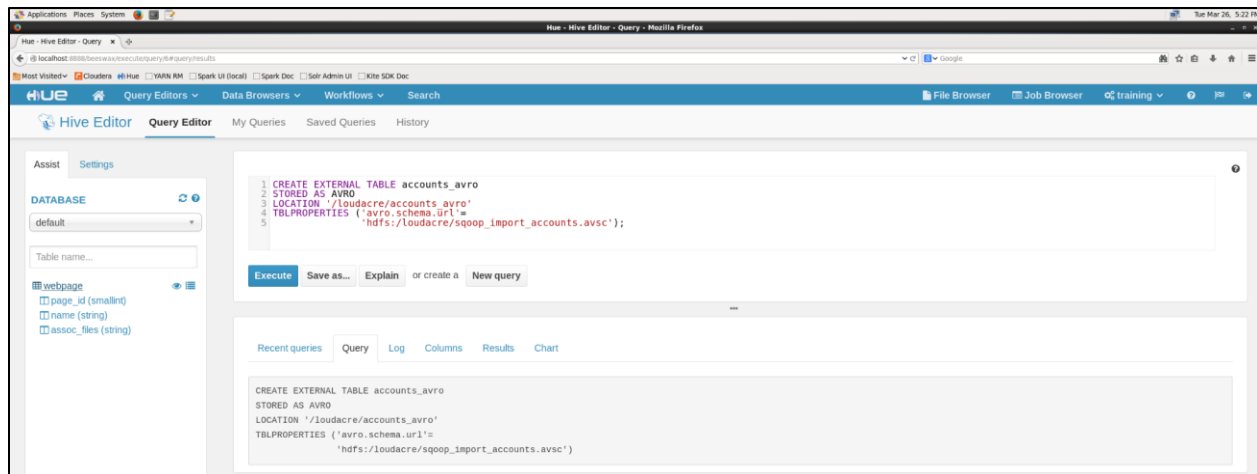
```

[training@localhost data-format]$ hdfs dfs -put sqoop_import_accounts.avsc /loudacre/
[training@localhost data-format]$ sxx230064

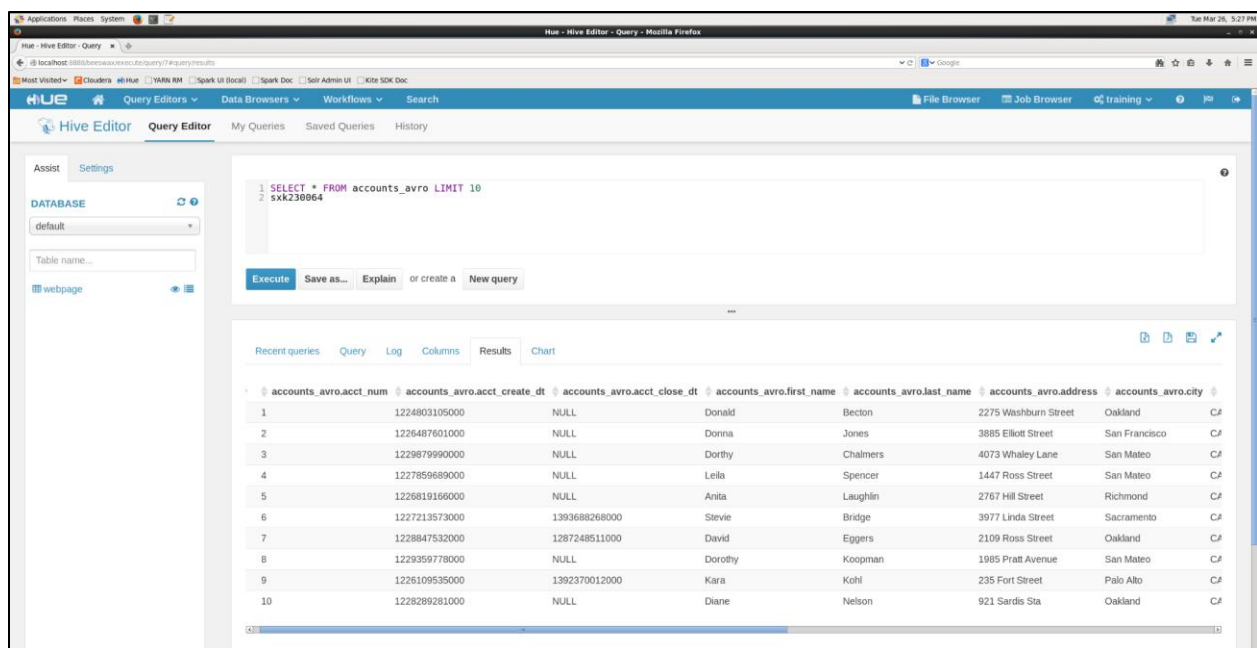
[training@localhost data-format]$ hdfs dfs -ls /loudacre
Found 6 items
drwxrwxrwx - training supergroup          0 2024-02-10 18:17 /loudacre/accounts
drwxrwxrwx - training supergroup          0 2024-03-26 16:32 /loudacre/accounts_avro
-rw-rw-rw- 1 training supergroup    15191 2024-02-10 16:29 /loudacre/base_stations.tsv
drwxrwxrwx - training supergroup          0 2024-02-08 15:01 /loudacre/kb
-rw-rw-rw- 1 training supergroup     1574 2024-03-26 17:15 /loudacre/sqoop_import_accounts.avsc
drwxrwxrwx - training supergroup          0 2024-02-10 18:30 /loudacre/webpage
[training@localhost data-format]$ sxx230064

```

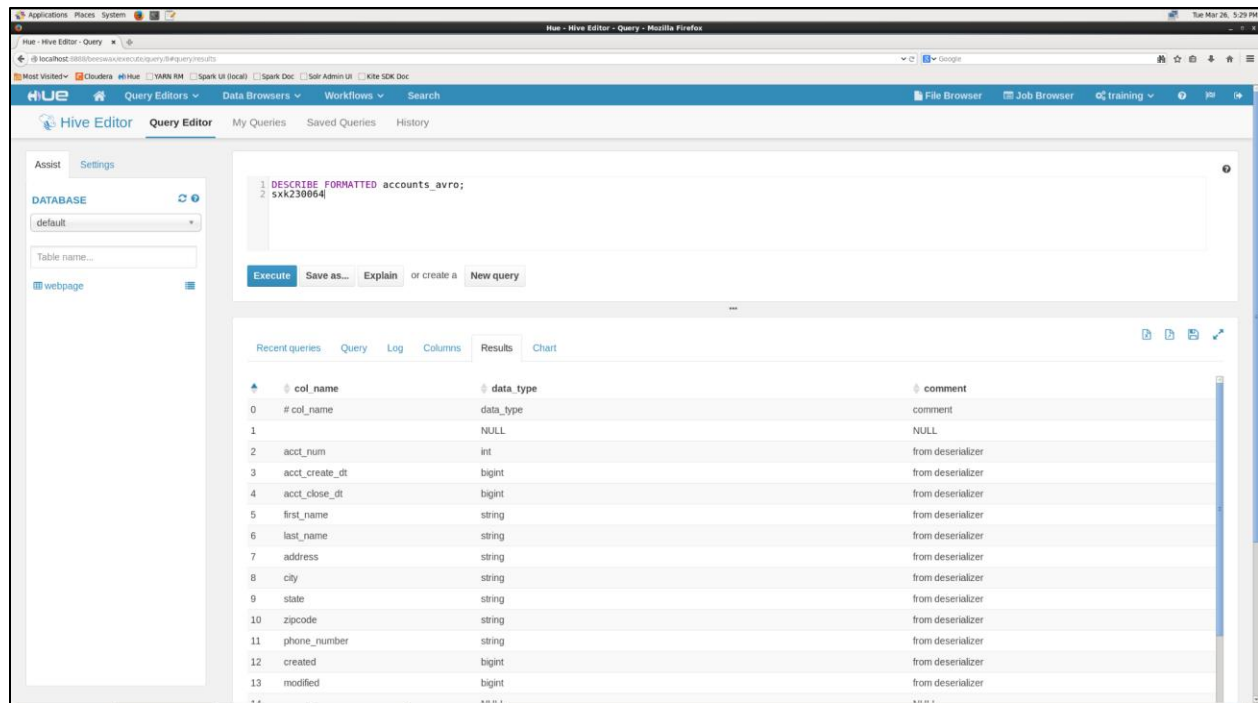
- Within Hive, I proceeded to create the table "accounts_avro" utilizing the provided Avro schema.



- After creating the table, I performed a test query using a select statement to ensure its successful created.

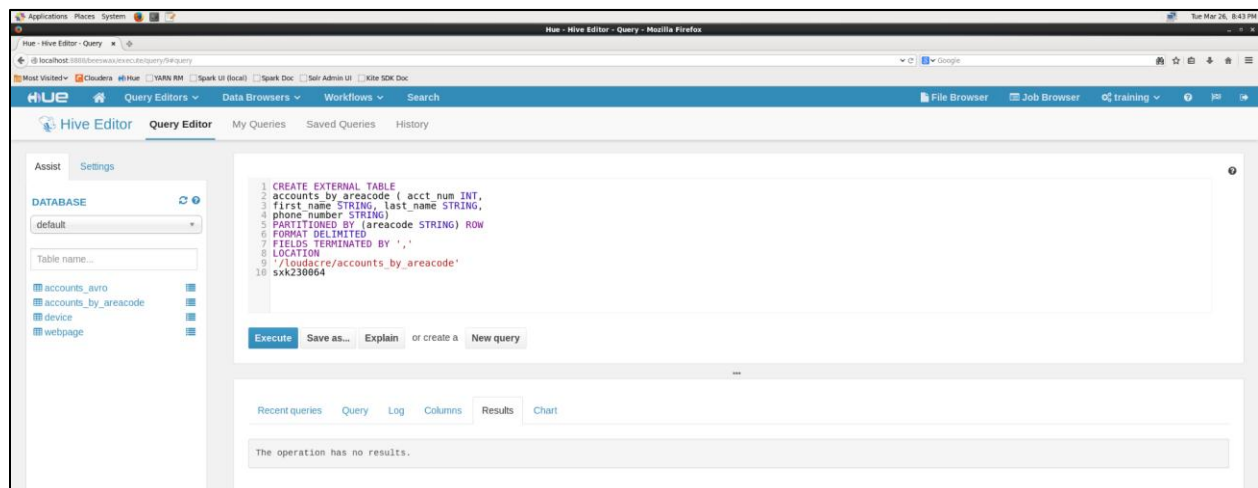


- I utilized the 'DESCRIBE FORMATTED' command to list the columns and data types of the accounts_avro table, derived from the Avro schema.



CHAPTER 8 - PARTITION DATA IN IMPALA OR HIVE

- Initially, I created a new empty table in Hive using the CREATE EXTERNAL TABLE statement.



- To extract the area code from phone numbers, I executed a query as per the below snippet.

The screenshot shows the Hue Hive Editor interface. The query editor contains the following SQL code:

```
1 SELECT acct_num, first_name, last_name,
2 phone_number, SUBSTR(phone_number,1,3) AS areacode
3 FROM accounts_avro
4 sxx238864
```

The results tab displays a table with the following data:

| | acct_num | first_name | last_name | phone_number | areacode |
|----|----------|------------|-----------|--------------|----------|
| 0 | 1 | Donald | Becton | 5100032418 | 510 |
| 1 | 2 | Donna | Jones | 4150835799 | 415 |
| 2 | 3 | Dorothy | Chalmers | 6506877757 | 650 |
| 3 | 4 | Leila | Spencer | 6503198619 | 650 |
| 4 | 5 | Anita | Laughlin | 5107754354 | 510 |
| 5 | 6 | Stevie | Bridge | 9162111862 | 916 |
| 6 | 7 | David | Eggers | 5103935529 | 510 |
| 7 | 8 | Dorothy | Koopman | 6502406661 | 650 |
| 8 | 9 | Kara | Kohl | 6502384894 | 650 |
| 9 | 10 | Diane | Nelson | 5102711264 | 510 |
| 10 | 11 | Robert | Fisher | 5100726353 | 510 |
| 11 | 12 | Marcia | Roberts | 6505209743 | 650 |
| 12 | 13 | Andres | Cruse | 4153335996 | 415 |
| 13 | 14 | Ann | Moore | 9163145431 | 916 |

- Then, I employed the SELECT statement within an INSERT INTO TABLE command to transfer the specified columns into the newly created table. Notably, the process involved dynamic partitioning by area code, as depicted in the following screenshot.

The screenshot shows the Hue Hive Editor interface with the following SQL code in the query editor:

```
1 SET hive.exec.dynamic.partition=true;
2 SET hive.exec.dynamic.partition.mode=nonstrict;
3
4 INSERT INTO TABLE accounts_by_areacode PARTITION(areacode) SELECT acct_num, first_name, last_name, phone_number, SUBSTR(phone_number,1,3)
5 AS areacode FROM accounts_avro
6 sxx238864
7
```

The results tab displays the message: "The operation has no results."

- I ran a test query to ensure that the table was populated correctly.

The screenshot shows the Hue Query Editor interface. The query editor contains the following SQL query:

```
SELECT * FROM accounts_by_areacode LIMIT 10;
```

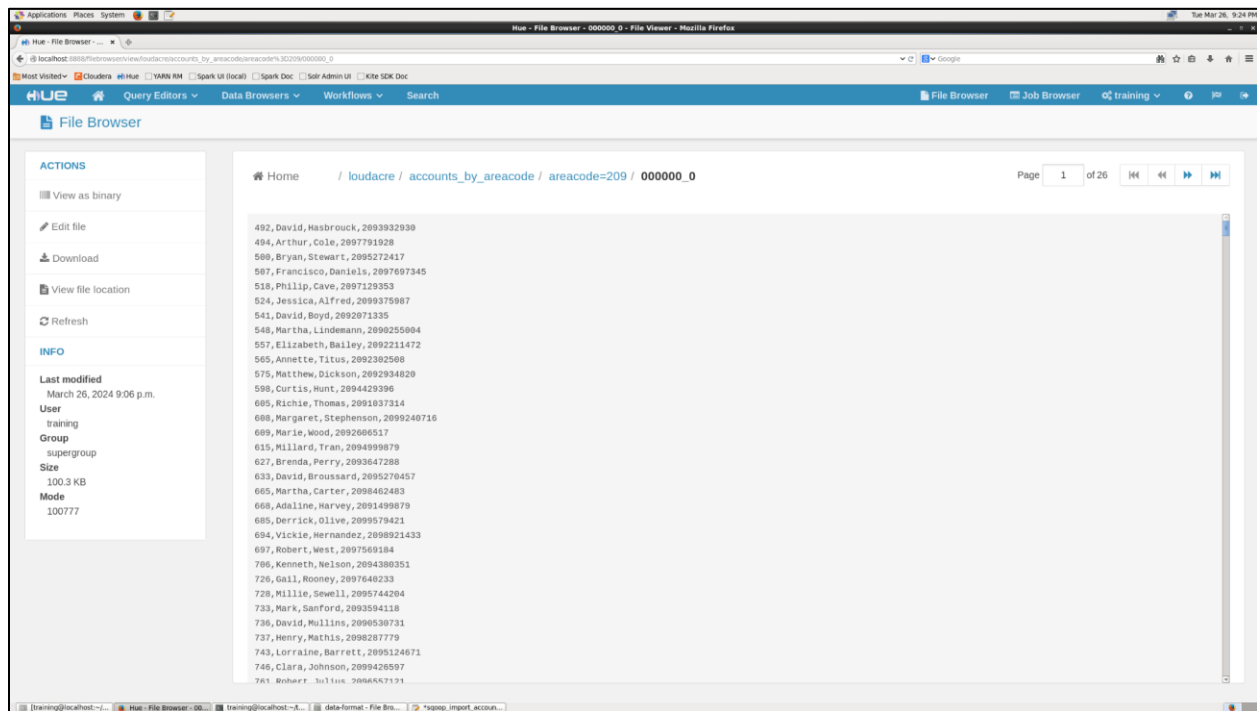
The results are displayed in a table with the following columns: accounts_by_areacode.acct_num, accounts_by_areacode.first_name, accounts_by_areacode.last_name, accounts_by_areacode.phone_number, and accounts_by_areacode.areacode. The table contains 10 rows of data.

| accounts_by_areacode.acct_num | accounts_by_areacode.first_name | accounts_by_areacode.last_name | accounts_by_areacode.phone_number | accounts_by_areacode.areacode |
|-------------------------------|---------------------------------|--------------------------------|-----------------------------------|-------------------------------|
| 492 | David | Hasbrouck | 2093932930 | 209 |
| 494 | Arthur | Cole | 2097791928 | 209 |
| 500 | Bryan | Stewart | 2095272417 | 209 |
| 507 | Francisco | Daniels | 2097697345 | 209 |
| 518 | Philip | Cave | 2097129353 | 209 |
| 524 | Jessica | Alfred | 2099375987 | 209 |
| 541 | David | Boyd | 2092071335 | 209 |
| 548 | Martha | Lindemann | 2090255004 | 209 |
| 557 | Elizabeth | Bailey | 2092211472 | 209 |
| 565 | Annette | Titus | 2092302508 | 209 |

- Using Hue, I confirm that the index structure of the accounts_by_areacode table encompassed partition directories. Additionally, I reviewed the data within the directories to affirm that the partitioning is correct.

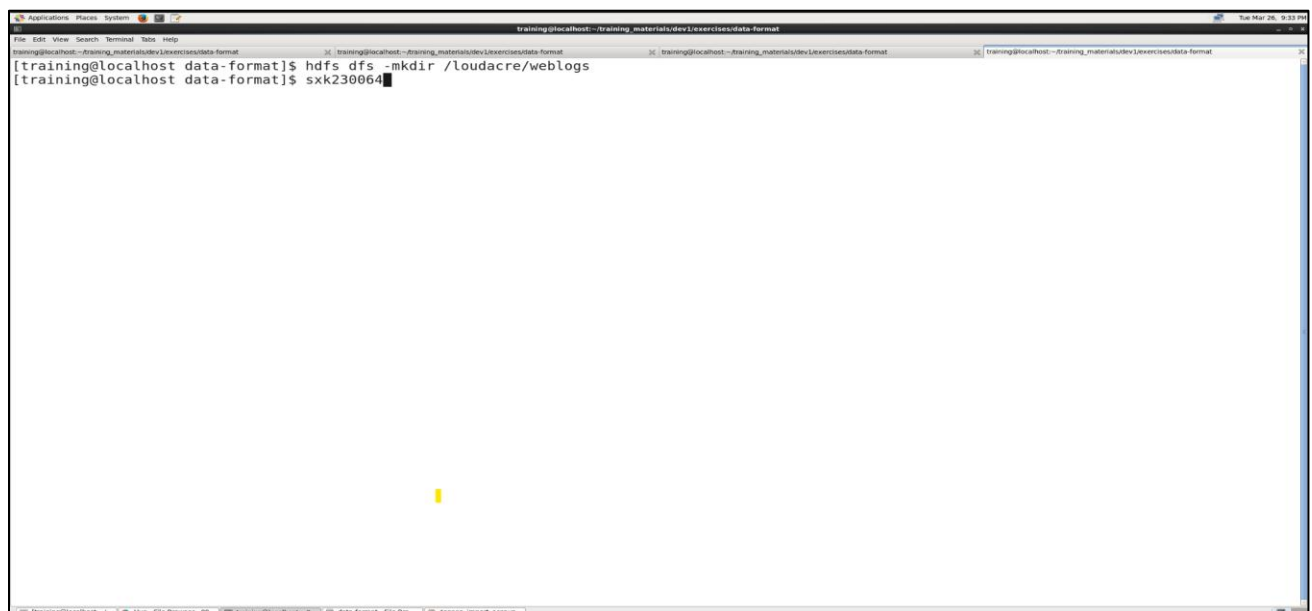
The screenshot shows the Hue File Browser interface. The file browser displays the directory structure of the accounts_by_areacode table. The directory is located at /loudacre/accounts_by_areacode. The file browser shows a list of files and directories, including a .hive-staging_hive_2024-03-26_21-06-02_358_5423725186381291849-1 directory and several areacode directories (e.g., areacode=209, areacode=213, areacode=310, areacode=408, areacode=415, areacode=424, areacode=503, areacode=510, areacode=530, areacode=541, areacode=559, areacode=562, areacode=619, areacode=626, areacode=650). The files and directories are listed with their names, sizes, users, groups, permissions, and dates.

| Name | Size | User | Group | Permissions | Date |
|--|------|----------|------------|-------------|-------------------------|
| . | | training | supergroup | drwxrwxrwx | March 26, 2024 08:42 PM |
| .. | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| .hive-staging_hive_2024-03-26_21-06-02_358_5423725186381291849-1 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| areacode=209 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:06 PM |
| areacode=213 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:06 PM |
| areacode=310 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| areacode=408 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:06 PM |
| areacode=415 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| areacode=424 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| areacode=503 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| areacode=510 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:06 PM |
| areacode=530 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| areacode=541 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| areacode=559 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:06 PM |
| areacode=562 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| areacode=619 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| areacode=626 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:07 PM |
| areacode=650 | | training | supergroup | drwxrwxrwx | March 26, 2024 09:06 PM |



CHAPTER 9 - COLLECT WEB SERVER LOGS WITH FLUME

- I created a directory named /loudacre/weblogs in HDFS, intending to store the data files ingested by Flume.



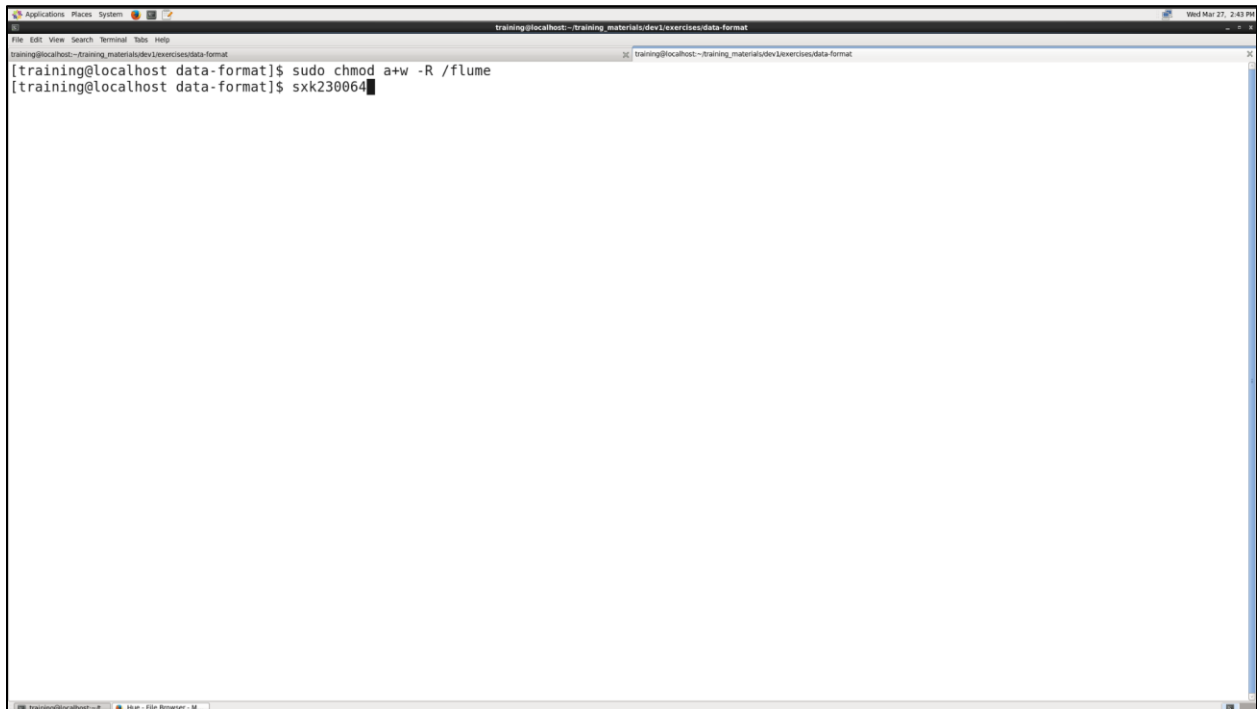
- Furthermore, I created a spool directory to accommodate the data files that the weblog simulator will generate for Flume ingestion.



A terminal window titled 'training@localhost - training_materials/dev1/exercises/data-format' showing the execution of two commands. The first command is 'mkdir -p /flume/weblogs_spooldir' and the second is 'sxxk230064'. The terminal output shows the directory was successfully created.


```
training@localhost data-format]$ sudo mkdir -p /flume/weblogs_spooldir
training@localhost data-format]$ sxxk230064
```

- To facilitate seamless data ingestion, I granted all users permissions to write to the /flume/weblogs_spooldir directory, executing the command `$ sudo chmod a+w -R /flume` in the command line.



A terminal window titled 'training@localhost - training_materials/dev1/exercises/data-format' showing the execution of two commands. The first command is 'sudo chmod a+w -R /flume' and the second is 'sxxk230064'. The terminal output shows the permissions were successfully granted.

```
training@localhost data-format]$ sudo chmod a+w -R /flume
training@localhost data-format]$ sxxk230064
```


[illegible]

The screenshot shows a terminal window titled "training@localhost:~" with the command prompt "[training@localhost flume]\$". The user has entered the command `./copy-move-weblogs.sh /flume/weblogs_spooldir`. The output of the script is "Copying and moving files". The user then enters the command `sxk230064`.

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Query Editors Data Browsers Workflows Search File Browser Job Browser training

File Browser

Search for file name Actions Move to trash Upload New

| | File Name | Size | Type | Group | Owner | Modified |
|--------------------------|-------------------------|----------|----------|------------|-------------|-------------------------|
| <input type="checkbox"/> | FlumeData.1711584062775 | 525.5 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062776 | 525.4 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062777 | 525.5 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062778 | 525.5 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062779 | 525.5 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062780 | 525.5 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062781 | 525.5 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062782 | 525.4 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062783 | 525.4 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062784 | 525.5 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062785 | 525.5 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062786 | 525.4 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062787 | 525.5 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062788 | 525.4 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062789 | 525.5 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |
| <input type="checkbox"/> | FlumeData.1711584062790 | 525.4 KB | training | supergroup | hue-hue-hue | March 27, 2024 05:01 PM |

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Find in page High training@localhost:~/.training_materials/dev/1/exercises/flume

training@localhost:~/. Hue - File Browser - M... training@localhost:~/. **flume.conf (~/.trai... training@localhost:~/. A...

The installed version of VMware Tools is not up to date. Log in to the guest operating system and click "Update Tools."

Update Tools Remind Me Later Never Remind Me

16 min delay US-75 S Search ENG IN 19:03 27-03-2024

