# <u>Data Ingestion from the RDS to</u> <u>HDFS using Sqoop</u>

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

Setting up MYSQL connector

```
[root@ip-172-31-12-193 mysql-connector-java-8.0.25]# mysql secure installation
NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
       SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!
In order to log into MariaDB to secure it, we'll need the current
password for the root user. If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.
Enter current password for root (enter for none):
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)
OK, successfully used password, moving on...
Setting the root password ensures that nobody can log into the MariaDB
root user without the proper authorisation.
You already have a root password set, so you can safely answer 'n'.
Aborting!
[root@ip-172-31-12-193 mysql-connector-java-8.0.25]# clear
[root@ip-172-31-12-193 mysql-connector-java-8.0.25]# mysql_secure_installation
NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
       SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!
In order to log into MariaDB to secure it, we'll need the current password for the root user. If you've just installed MariaDB, and you haven't set the root password yet, the password will be blank,
Enter current password for root (enter for none):
OK, successfully used password, moving on...
Setting the root password ensures that nobody can log into the MariaDB root user without the proper authorisation.
You already have a root password set, so you can safely answer 'n'.
Change the root password? [Y/n] y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
By default, a MariaDB installation has an anonymous user, allowing anyone
```

Sgoop Import command used for importing table from RDS to HDFS

```
sqoop import \
    --connect
jdbc:mysql://upgraddetest.cyaielc9bmnf.us-east-1.rds.amazonaws.com/tes
tdatabase \
    --table SRC_ATM_TRANS \
    --username student \
    --password STUDENT123 \
    --target-dir /user/root/sn_bank_atm \
    -m 1
```

```
[hadoop@ip-172-31-12-193 ~]$ 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/sn_bank_atm \
> -m 1
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/../hcatalog does not exist! 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.
24/04/24 09:02:54 INFO sqoop.Sqoop: Running Sqoop version: 1.4.7
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/St
```

#### In the screenshot below we can see 2468572 rows have been retrieved

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

#### hadoop fs -ls /user/root/sn bank atm

### In the screenshot below we can see two items:

- The first file is the success file, indicating that the MapReduce job was successful.

- The second file 'part-m-00000' since only one mapper was used in the import command, as a result the data is in a single file.

## Screenshot of the imported data:

