



## Load data from AWS RDS to Hadoop

## Data Ingestion with Sgoop

1. Installing MySQL connector:

```
wget https://de-mysql-connector.s3.amazonaws.com/mysql-connector-java-8.0.25.tar.gz
tar -xvf mysql-connector-java-8.0.25.tar.gz
cd mysql-connector-java-8.0.25/
sudo cp mysql-connector-java-8.0.25.jar /usr/lib/sqoop/lib/
```

```
[hadoop@ip-172-31-45-126 ~]$ cd mysql-connector-java-8.0.25/
[hadoop@ip-172-31-45-126 mysql-connector-java-8.0.25]$ sudo cp mysql-connector-java-8.0.25.jar /usr/lib/sqoop/lib/
[hadoop@ip-172-31-45-126 mysql-connector-java-8.0.25]$
```

2. Executing sqoop import command ingest the relevant bookings data from AWS RDS to Hadoop

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

```
[hadoop@ip-172-31-45-126 mysql-connector-java-8.0.25]$ sqoop import \
> --connect jdbc:mysql://upgraddetest.cyaielc9bmnf.us-east-l.rds.amazonaws.com/testdatabase \
> --table bookings \
> --username student --password STUDENT123 \
> --target-dir /user/root/bookings \
> -m 1
Warning: /usr/lib/sqoop/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
23/05/22 05:22:45 INFO sqoop.Sqoop: Running Sqoop version: 1.4.7
```

```
File Output Format Counters

Bytes Written=165678

23/05/22 05:23:13 INFO mapreduce.ImportJobBase: Transferred 161.7949 KB in 22.5813 seconds (7.165 KB/sec)

23/05/22 05:23:13 INFO mapreduce.ImportJobBase: Retrieved 1000 records.

[hadoop@ip-172-31-45-126 mysql-connector-java-8.0.25]$
```

Note: 1000 records are retrieved and imported in HDFS





## 3. Verifying imported file in HDFS:

hadoop fs -ls /user/root/bookings

```
[hadoop@ip-172-31-45-126 mysql-connector-java-8.0.25]$ hadoop fs -ls /user/root/bookings
Found 2 items
-rw-r--r- 1 hadoop hadoop 0 2023-05-22 05:23 /user/root/bookings/_SUCCESS
-rw-r--r- 1 hadoop hadoop 165678 2023-05-22 05:23 /user/root/bookings/part-m-00000
[hadoop@ip-172-31-45-126 mysql-connector-java-8.0.25]$
```

## 4. Verifying imported file in HDFS:

hadoop fs -cat /user/root/bookings/part-m-00000 | head -n 10