



Experiment No.2
Use of Sqoop tool
Date of Performance:
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AIM: To install SQOOP and execute basic commands of Hadoop eco system component Sqoop.

THEORY:

Installation and configuration of SQOOP

- 1) Download SQOOP from <https://sqoop.apache.org>
- 2) Unzip and Install SQOOP
 - After Downloading the SQOOP, we need to Unzip the sqoop-1.4.7.bin_hadoop-2.6.0.tar.gz file.
- 3) Create a folder and move the final extracted file in it.
 - Set up the environment variables
 - Set SQOOP_HOME
- 4) Set up path variable
- 5) Configure SQOOP

Basic SQOOP commands:

1. List Table

This command lists the particular table of the database in MYSQL server.

```
sqoop list - tables --connect jdbc:mysql://localhost/payment --username gartner
```

2. Target directory

This command import table in a specific directory in HDFS. -m denotes mapper argument.

They have an integer value.

```
$ sqoop import --connect jdbc:mysql://localhost/inventory --username jony -table inventory --m 1 --target-dir/inv
```



3. sqoop-eval

This command runs SQL queries of the respective database.

```
$ sqoop eval --connect --query "SQLQuery"
```

4. sqoop – version

This command displays a version of the sqoop.

```
$ sqoop version sqoop {revnumber}
```

5. sqoop-job

This command allows us to create a job, the parameters that are created can be invoked at any time. They take options like (–create,–delete,–show,–exit).

```
$ sqoop job --create --import --connect --table
```

6. code gen

This Sqoop command creates java class files which encapsulate the imported records. All the java files are recreated, and new versions of a class are generated. They generate code to interact with database records. Retrieves a list of all the columns and their data types.

```
$ sqoop codegen --connect -table
```

7. List Database

This Sqoop command lists all the available databases in the RDBMS server.

```
>$ sqoop list - database -- connect
```

Sqoop is a command-line interface application for transferring data between relational databases and Hadoop.



CONCLUSION:

Thus, we draw the conclusion that Apache Sqoop installation and use is a strong and flexible solution for quickly moving data between Hadoop and relational databases. Setting up the required dependencies and configuring the connection parameters are all that are required for its installation, which is rather simple. Sqoop is a useful tool for data engineers and analysts because, once deployed, it provides a straightforward command-line interface and is simple to incorporate into data workflows. Sqoop makes the process of moving data between relational databases and Hadoop, whether you need to import data from a database into Hadoop or export data from Hadoop to a relational database, simpler, enabling more efficient big data processing and analysis.