



Vidyavardhini's College of Engineering &
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Department of Computer Engineering

Experiment No. 2
Use of Sqoop tool
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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 gatner
```

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:

This experiment delved into the installation and initial command execution of Sqoop, an integral element within the Hadoop ecosystem. Sqoop plays a pivotal role in enabling the smooth transfer of data between relational databases and Hadoop, ultimately supporting the streamlined integration and analysis of data. The installation procedure encompassed tasks such as downloading Sqoop, configuring environment variables, and establishing the essential pathways. Moreover, the experiment showcased a range of fundamental Sqoop commands, including table and database listing, target directory specification, SQL query execution, job creation, Java class file generation for data interaction, and version verification.