



Vidyavardhini's College of Engineering & Technology

Department of Artificial Intelligence and Data Science

Experiment No. 2
Use of Sqoop tool
Date of Performance:
Date of Submission:



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AIM: To install SQOOP and execute basic commands of Hadoop ecosystem 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.

4) Set up the environment variables

a. Set SQOOP_HOME

b. 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 imports tables 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"
```



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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
```

CONCLUSION:

We learned about multiple types of sqoop commands and their usage.