EXERCISE NO.: 07
SQOOP IMPORT

AIM:

To use Apache Sqoop to import data from a relational database into Hive and to demonstrate the integration of Hadoop, Hive, and Sqoop for data warehousing.

SCRIPT:

SQL

```
CREATE TABLE students (
    id INT PRIMARY KEY,
    name VARCHAR(50),
    age INT,
    department VARCHAR(10)
);
INSERT INTO students VALUES (1,'John',20,'CSE'), (2,'Alice',21,'ECE'), (3,'Bob',19,'CSE');
```

HiveQL

```
CREATE TABLE IF NOT EXISTS hive_students (
    id INT,
    name STRING,
    age INT,
    department STRING
)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','
STORED AS TEXTFILE;
```

Sqoop Import

```
sqoop import \
    --connect jdbc:mysql://<db_host>:3306/student_db \
    --username bdt \
    --password bdt \
    --table students \
```

```
    --hive-import \
    --hive-database student_db \
    --hive-table hive_students \
    --fields-terminated-by ',' \
    --lines-terminated-by '\n'
```

Verify

```
!hive -e "USE student_db; SELECT * FROM hive_students;"
```

OUTPUT:

```
INFO: Starting Sqoop import job
INFO: Connecting to database student_db
INFO: Importing 3 rows into Hive table student_db.hive_students
INFO: Import completed successfully

id   name    age  department
1    John    20   CSE
2    Alice   21   ECE
3    Bob     19   CSE
```

RESULT:

Thus, the Sqoop successfully imported data from MySQL into Hive.