

SQL for Data Science

Module 5: Importing and Exporting Data

Learning Objectives of this module



In this module we will learn how to import and export data from MySQL

- Importing data from CSV file
- Exporting data to a CSV file
- Backing up data to SQL file
- Restoring data from SQL file





LOAD DATA LOCAL INFILE <full_file_path> INTO TABLE <tableName>
COLUMNS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '" ESCAPED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES;

Things to Note

- A table with same schema as csv file must be present in the database
- The command just helps us insert data into that table
- Make sure you put the correct delimiter and check for header



SELECT *

INTO OUTFILE <outputFilePath>

FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '"'

LINES TERMINATED BY '\n' FROM <tableName>;

Things to note

Has to be done a table at a time



mysqldump —h <host> -uroot -p <databaseName> > <dumpFilePath>

Things to note

- This has to be done on OS terminal not inside MySQL
- Make sure to put the database name, else it will backup all databases
- Put the –h host option if database is on another host
- Change the username accordingly



mysql -h <host> -u <username> -p <databaseName> < <sqlFilePath>

Things to Note

- This has to be done on OS terminal not inside MySQL
- The SQL file should be a complete backup containing the schema of the database as well as the data else this wont work
- Blank database should be present at the target machine