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| EXP NO: 7 | Practice importing and exporting data from various databases. |
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| DATE: |  |

**AIM: -**

**BACKGROUND THEORY: -**

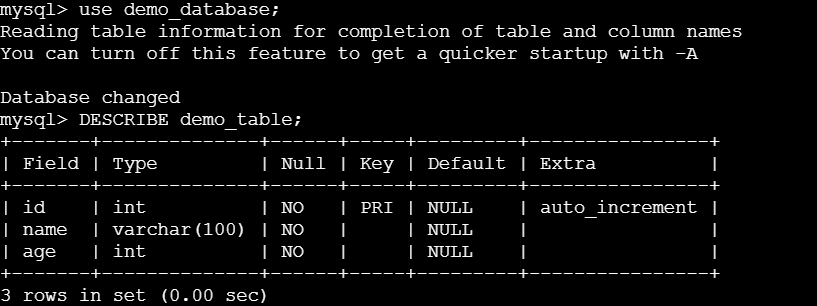
# **PROCEDURE: -**

* Switch to superuser mode using sudo su.
* Import Data from MySQL to Hive
  + Check Sqoop Installation
  + Check MySQL Schema and Table Structure
    - Log in to MySQL to check the schema and the structure of the table you want to import
    - Describe the table to check its structure
  + Import MySQL Data into Hive using Sqoop
  + Verify the Hive Table
  + Describe the Hive table
* Export Data from Hive to MySQL
  + Check Hive Table Structure
  + Export Hive Data to MySQL with the use of sqoop commands
  + Check the Exported Data in MySQL

# **CODING: -**

* sudo su
* # Part 1: Import Data from MySQL to Hive
  + # Check Sqoop Installation
  + sqoop version
  + # Check MySQL Schema and Table Structure
  + mysql -u your\_user -p
  + DESCRIBE your\_database.your\_table;
  + # Import MySQL Data into Hive using Sqoop
  + sqoop import \
  + --connect jdbc:mysql://your-mysql-server-ip:3306/your\_database \
  + --username your\_user \
  + --password your\_password \
  + --table your\_table \
  + --hive-import \
  + --hive-table your\_hive\_database.your\_hive\_table \
  + --m 1
  + # Verify the Hive Table
  + hive
  + DESCRIBE your\_hive\_database.your\_hive\_table;
  + SELECT \* FROM your\_hive\_database.your\_hive\_table LIMIT 10;
* # Part 2: Export Data from Hive to MySQL
  + # Check Hive Table Structure
  + DESCRIBE your\_hive\_database.your\_hive\_table;
  + # Export Hive Data to MySQL
  + sqoop export \
  + --connect jdbc:mysql://your-mysql-server-ip:3306/your\_database \
  + --username your\_user \
  + --password your\_password \
  + --table your\_table \
  + --export-dir /user/hive/warehouse/your\_hive\_table \
  + --m 1
  + # Check the Exported Data in MySQL
  + SELECT \* FROM your\_database.your\_table LIMIT 10;

# **OUTPUT: -**



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