

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

```
mysql> use demo_database;  
Reading table information for completion of table and column names  
You can turn off this feature to get a quicker startup with -A
```

Database changed

```
mysql> DESCRIBE demo_table;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(100)	NO		NULL	
age	int	NO		NULL	

3 rows in set (0.00 sec)

Database changed

```
mysql> DESCRIBE demo_table;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(100)	NO		NULL	
age	int	NO		NULL	

3 rows in set (0.00 sec)

```
mysql> SELECT * FROM demo_table
```

-> ^C

```
mysql> SELECT * FROM demo_table;
```

id	name	age
1	Alice	30
2	Bob	25
3	Charlie	35

3 rows in set (0.00 sec)