SQOOP ASSIGNMENT S.SADHANA-221047005

1.Grant privileges to dbs in mysql for users to connect from SQOOP mysql>

GRANT ALL PRIVILEGES ON *.* TO 'cdc22'@'localhost' IDENTIFIED BY 'msis';

Implement the following in SQOOP

2.List the databases in mysql through sqoop

sqoop list-databases--connect jdbc:mysql://localhost?useSSL=false--username cdc22--password msis

3.List all tables in selected databases

sqoop list-tables--connect jdbc:mysql://localhost/retail_db?useSSL=false--username cdc22--password msis

4.Import table into HDFS using target-dir method

//to transfer one table

sqoop import --connect jdbc:mysql://localhost/retail_db?useSSL=false --username cdc22 --password msis --table customers --target-dir '/testCustomer1'

5.Import table into HDFS using warehouse-dir method

//to transfer multiple table

sqoop import --connect jdbc:mysql://localhost/retail_db?useSSL=false --username cdc22 --password msis --table orders --warehouse-dir '/retail db'

output:

drwxr-xr-x sois supergroup 0 B Feb 28 16:06 0 0B orders

6.To import partial data from specified table

sqoop import --connect jdbc:mysql://localhost/retail_db?useSSL=false --username cdc22 --password msis --table categories --target-dir '/tempCat' --where "category id < 30"

output:

drwxr-xr-x sois supergroup 0 B Feb 28 16:16 0 0B tempCat

7.To import data from selected columns table

sqoop import --connect jdbc:mysql://localhost/retail_db?useSSL=false --username cdc22 --password msis --columns product id,product name,product price --table products --target-dir '/selected colTransfer'

output:

drwxr-xr-x sois supergroup 0 B Feb 28 16:31 0 0B selected colTransfer

8.To import all tables from given database

sqoop import-all-table--username cdc22--password msis--warehouse-dir '/path'

9.To export some tables while importing all the tables

--warehouse-dir '/path' -- exclude-tables table 1, table 2

10.To export table from HDFS to local db

Implement following using HIVE tool

1. Find unique states in customer table SELECT DISTINCT state FROM customer;

2.Find number of customers from each state

SELECT state, COUNT(*) as num_customers FROM customer GROUP BY state;

3.List and count number of unique fnames from customer table SELECT fname, COUNT(DISTINCT fname) as num_unique_fnames FROM customer GROUP BY fname;

4.List and count unique cities from customer table SELECT COUNT(DISTINCT city) as num_unique_cities FROM customer;

5. Find customer id who placed maximum orders

SELECT customer_id, fname, lname, num_orders
FROM (
SELECT o.customer_id, c.fname, c.lname, COUNT(*) as num_orders,
 RANK() OVER (ORDER BY COUNT(*) DESC) as rank_orders
FROM orders o
JOIN customer c ON o.customer_id = c.customer_id
GROUP BY o.customer_id, c.fname, c.lname
) ranked_orders
WHERE rank_orders = 1;