DE ASSIGNMENT 4

Create a dummy database for an NGO collecting goods for poor and needy. Perform the following tasks:

CREATE table in SQL:

Create database ngo

Use ngo

create table donationitems(id int primary key, name varchar(30), item varchar(30));

Table

Description automatically generated

create table donationitems(did int primary key, name varchar(30), amount varchar(30));

Table

Description automatically generated

1. Import all tables in HDFS

sqoop import --connect jdbc:mysql://localhost/ngo --table donations --target-dir /ngo/donations --username root

sqoop import --connect jdbc:mysql://localhost/ngo --table donationitems --target-dir /ngo/donationitems --username root

Text

Description automatically generated with medium confidence

Graphical user interface, text, application

Description automatically generated  
2. Perform incremental append on daily donations from the donations table to HDFS

Add few columns in mysql:

Table

Description automatically generated

Now to append:

sqoop import --connect jdbc:mysql://localhost/ngo --table donations --target-dir /ngo/donations --username root --incremental append --check-column did --last-value 4

Text

Description automatically generated  
3. Impose HIVE schema on top of these data (external table)

create external table if not exists donations(did int, name string, amount int)row format delimited fields terminated by ',' location '/ngo/donations';

create external table if not exists donationitems(id int, name string, item string)row format delimited fields terminated by ',' location '/ngo/donationitems';

Table

Description automatically generated

4. Convert/Re-write the query in the question 2 as a Sqoop Job

sqoop job --create donation -- import --connect jdbc:mysql://localhost/ngo --username root --table donations --target-dir /ngo/d\_job --incremental append --check-column did --last-value 4

sqoop job –exec donation

o/p:

Text

Description automatically generated