

Assignment 11.1

Transfer data between Mysql and HDFS (Import and Export) using Sqoop.

1. Import from mysql to hdfs

//Starting the services

```
sudo service mysqld start
```

```
mysql -u root
```

Creating table in sql

```
create database db;
```

```
use db;
```

```
create table company
```

```
(
```

```
id int,
```

```
name varchar(20),
```

```
location varchar(20)
```

```
);
```

Inserting:

```
insert into company values(1, 'acadgild','Bangalore');
```

```
insert into company values(2, 'eduvista','Walnut');
```

```
insert into company values(3, 'eduvista','Bangalore');
```

```
mysql> select * from company;
+-----+-----+-----+
| id   | name   | location |
+-----+-----+-----+
| 1    | acadgild | Bangalore |
| 2    | eduvista | Walnut   |
| 3    | eduvista | Bangalore |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> █
```

//Granting the access

```
mysql> grant all on *.* to 'root'@'localhost' with grant option;
Query OK, 0 rows affected (0.00 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)

mysql> commit;
Query OK, 0 rows affected (0.00 sec)

mysql> exit;
Bye
[acadgild@localhost ~]$ █
```

//

Importing from mysql to hdfs

```
sqoop import --connect jdbc:mysql://localhost/db--username 'root' -P --table
'company' --target-dir '/sqoopout1' -m 1;
```

```
Found 2 items
-rw-r--r--  1 acadgild supergroup      0 2017-11-10 11:19 /sqoopout1/_SUCCESS
-rw-r--r--  1 acadgild supergroup    60 2017-11-10 11:19 /sqoopout1/part-m-00000
[acadgild@localhost ~]$ █
```

Reading the stored file using cat

```
~~~~~  
[acadgild@localhost ~]$ hadoop fs -cat /sqoopout1/part-m-00000  
17/11/10 11:22:46 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
1,acadgild,Bangalore  
2,eduvista,Walnut  
3,eduvista,Bangalore  
[acadgild@localhost ~]$
```

2.Export from hdfs to mysql

Creating table employee in mysql

```
create table employee  
(  
  id int,  
  name varchar(20),  
  salary int,  
  experienxe int  
);
```

```
mysql> create table employee
->
-> (
->
-> id int,
->
-> name varchar(20),
->
-> salary int,
-> experienxe int
->
-> );
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from employee;
Empty set (0.00 sec)

mysql> █
```

Exporting employee_details.txt into mysql employee table

sqoop export --connect jdbc:mysql://localhost/db --username 'root' -P --table 'employee' --export-dir 'employee_details.txt' -m 1;

```
sk is deprecated. Instead, use mapreduce.job.reduces
2017-11-10 12:11:09,244 INFO [main] Configuration.deprecation: mapred.cache.files.filesizes is deprecated. Instead, use mapreduce.job.cache.files.filesizes
2017-11-10 12:11:09,391 INFO [main] mapreduce.JobSubmitter: Submitting tokens for job: job_1510292656922_0005
2017-11-10 12:11:09,651 INFO [main] impl.YarnClientImpl: Submitted application application_1510292656922_0005 to ResourceManager at /0.0.0.0:8032
2017-11-10 12:11:09,677 INFO [main] mapreduce.Job: The url to track the job: http://http://localhost:8088/proxy/application_1510292656922_0005/
2017-11-10 12:11:09,682 INFO [main] mapreduce.Job: Running job: job_1510292656922_0005
2017-11-10 12:11:16,835 INFO [main] mapreduce.Job: Job job_1510292656922_0005 running in uber mode : false
2017-11-10 12:11:16,840 INFO [main] mapreduce.Job: map 0% reduce 0%
2017-11-10 12:11:21,940 INFO [main] mapreduce.Job: map 100% reduce 0%
2017-11-10 12:11:22,999 INFO [main] mapreduce.Job: Job job_1510292656922_0005 completed successfully
2017-11-10 12:11:23,124 ERROR [main] sqoop.Sqoop: Got exception running Sqoop: java.lang.IllegalArgumentException: No enum constant org.apache.hadoop.mapreduce.JobCounter.MB_MILLIS_MAPS
java.lang.IllegalArgumentException: No enum constant org.apache.hadoop.mapreduce.JobCounter.MB_MILLIS_MAPS
    at java.lang.Enum.valueOf(Enum.java:238)
    at org.apache.hadoop.mapreduce.counters.FrameworkCounterGroup.valueOf(Fr
```

Displaying table employee in mysql :

Empty set (0.00 sec)

```
mysql> select * from employee;
```

id	name	salary	experienxe
101	Amitabh	20000	1
102	Shahrukh	10000	2
103	Akshay	11000	3
104	Anubhav	5000	4
105	Pawan	2500	5
106	Aamir	25000	1
107	Salman	17500	2
108	Ranbir	14000	3
109	Katrina	1000	4
110	Priyanka	2000	5
111	Tushar	500	1
112	Ajay	5000	2
113	Jubeen	1000	1
114	Madhuri	2000	2

14 rows in set (0.00 sec)

```
mysql> █
```