Sqoop AssignMent

1. Use Sqoop tool to export data present in SQOOPOUT folder made while demo of Import table.

- The below command to show the file on hdfs to export into the table.

```
ou have new mail in /var/spool/mail/acadgild
acadgild@localhost sqoop]$ hadoop fs -ls /hadoop/sqoop
8/05/20 10:52:41 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your
pplicable
ound 5 items
rw-r--r--   1 acadgild supergroup          0 2018-05-20 10:52 /hadoop/sqoop/_SUCCESS
rw-r--r--   1 acadgild supergroup        138 2018-05-20 10:52 /hadoop/sqoop/part-m-00000
rw-r--r--   1 acadgild supergroup          0 2018-05-20 10:52 /hadoop/sqoop/part-m-00001
rw-r--r--   1 acadgild supergroup          0 2018-05-20 10:52 /hadoop/sqoop/part-m-00002
rw-r--r--   1 acadgild supergroup         12 2018-05-20 10:52 /hadoop/sqoop/part-m-00003
```

- The export command is used in the sqoop load data from hdfs file to the MySQL table. Here the table is the person1.

```
[acadgild@localhost sqoop]$ sqoop export --connect jdbc:mysql://localhost/simplidb --username root -P --table person1 --export-dir /hadoo
p/sqoop
```

- Used only mapper class and there was no Reducer in Sqoop. If you see below file only the map 100% and job completed successfully.

```
ative
18/05/20 10:54:24 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1526751299321_001
18/05/20 10:54:25 INFO impl.YarnClientImpl: Submitted application application_1526751299321_001
18/05/20 10:54:25 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/app
18/05/20 10:54:25 INFO mapreduce.Job: Running job: job_1526751299321_0011
18/05/20 10:54:39 INFO mapreduce.Job: Job job_1526751299321_0011 running in uber mode : false
18/05/20 10:54:39 INFO mapreduce.Job:  map 0% reduce 0%
18/05/20 10:55:17 INFO mapreduce.Job:  map 75% reduce 0%
18/05/20 10:55:18 INFO mapreduce.Job:  map 100% reduce 0%
18/05/20 10:55:18 INFO mapreduce.Job: Job job_1526751299321_0011 completed successfully
18/05/20 10:55:18 INFO mapreduce.Job: Counters: 31
        File System Counters
                FILE: Number of bytes read=0
                FILE: Number of bytes written=510192
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=1066
                HDFS: Number of bytes written=0
                HDFS: Number of read operations=25
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=0
        Job Counters
                Launched map tasks=4
                Other local map tasks=1
                Data-local map tasks=3
                Total time spent by all maps in occupied slots (ms)=141030
                Total time spent by all reduces in occupied slots (ms)=0
                Total time spent by all map tasks (ms)=141030
                Total vcore-milliseconds taken by all map tasks=141030
                Total megabyte-milliseconds taken by all map tasks=144414720
        Map-Reduce Framework
```

- Check the mysql database and the table person1 and exported or not. If you see below file and data exported into table from hdfs target directory.

```
mysql> select * from person1;
+-----------+-------+-------+-------------+---------------+
| person_id | lname | fname | area        | city          |
+-----------+-------+-------+-------------+---------------+
|         3 | James | Brown | New York    | United States |
|         4 | Jhon  | Miller|  Los Angeles| United States |
|       789 | a     | b     | c           | d             |
|         1 | Shyam | Ram   | Patna       | Bihar         |
|         2 | Tanya | Priya | Whitefiled  | Bangalore     |
+-----------+-------+-------+-------------+---------------+
5 rows in set (0.00 sec)

mysql>
```

2. Use Sqoop tool to export data present in SQOOPOUT folder made while demo of Import table

With parameter person_id =3.

- The Imported data file with parameter person_id =3.

```
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sqoop]$ sqoop import --connect jdbc:mysql://localhost/simplidb --username root -P --query 'select * from Person where
 person_id=3 and $CONDITIONS' --target-dir /hadoop/sqoopwhere -m 1
```

- The Query data can be exported in the person2 table using sqoop.

```
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sqoop]$ sqoop export --connect jdbc:mysql://localhost/simplidb --username root -P --table person2 --export-dir /hado
p/sqoopwhere -m 1
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin hadoop-2.0.4-alpha/../hcatalog does not exist! HCatalog jobs will fail.
```

- The status of the job after completion of the export command.

```
18/05/20 11:23:30 INFO mapreduce.Job:  map 0% reduce 0%
18/05/20 11:23:40 INFO mapreduce.Job:  map 100% reduce 0%
18/05/20 11:23:41 INFO mapreduce.Job: Job job_1526751299321_0013 completed successfully
18/05/20 11:23:41 INFO mapreduce.Job: Counters: 30
        File System Counters
                FILE: Number of bytes read=0
                FILE: Number of bytes written=127553
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=173
                HDFS: Number of bytes written=0
                HDFS: Number of read operations=4
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=0
        Job Counters
                Launched map tasks=1
```

- The person_id=3 data be exported into the table person2 OUTPUT in MYSQL.

```
mysql> select * from person2;
+-----------+-------+-------+----------+---------------+
| person_id | lname | fname | area     | city          |
+-----------+-------+-------+----------+---------------+
|         3 | James | Brown | New York | United States |
+-----------+-------+-------+----------+---------------+
1 row in set (0.00 sec)
```