Assignment - 6.1

<u>Task1:</u> Use Sqoop tool to export data present in SQOOPOUT folder made while demo of Import table.

<u>Answer1:</u> Here Sqoop import is already performed; now same set of records will be loaded to the Person table which has been received as a part of Sqoop Import.

Person table prior to import command:

```
mysql> select * from Person;
                       fname
                                               city
  person id
              lname
          1
              Shyam
                       Ram
                                Patna
                                                 Bihar
          2
                       Priya
                                Whitefiled
                                                 Bangalore
              Tanya
          3
              James
                       Brown
                                New York
                                                 United States
                                                 United States
          4
                       Miller
              Jhon
                                 Los Angeles
 rows in set (0.00 sec)
```

Import command:

sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root -P -targetdir /sqoopout -m 1

```
[acadgild@localhost ~]$ sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root -P -target-dir /sqoopout --m 1
```

Import Output:

```
18/03/21 23:31:35 INFO mapreduce.ImportJobBase: Transferred 138 bytes in 22.9268 seconds (6.0192 bytes/sec) 18/03/21 23:31:35 INFO mapreduce.ImportJobBase: Retrieved 4 records.
```

```
[acadgild@localhost -]$ hadoop fs -cat /sqoopout/part-m-00000
18/03/21 23:43:12 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes whe
re applicable
Patna,Bihar,Ram,Shyam,1
Whitefiled,Bangalore,Priya,Tanya,2
New York,United States,Brown,James,3
Los Angeles ,United States,Brown,James,4
```

Now use below command to delete the records from Person Table(before exporting the records).

mysql> delete from Person;

Export Command:

sqoop export --connect jdbc:mysql://localhost/simplidb --table Person -username root -P --export-dir /sqoopout/part-m-00000

```
[acadgild@localhost ~]$ sqoop export --connect jdbc:mysql://localhost/simplidb --table Person -username root -P --export-dir /sqoopout/part-m-00000
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin_hadoop-2.0.4-alpha/../hcatalog does not exist! HCatalog jobs will fail.
Please set $HCAT_HOME to the root of your HCatalog installation.
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin_hadoop-2.0.4-alpha/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO HOME to the root of your Accumulo installation.
18/03/21 23:32:31 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
```

Export Output:

```
18/03/21 23:33:23 INFO mapreduce.ExportJobBase: Transferred 937 bytes in 40.8595 seconds (22.9322 bytes/sec) 18/03/21 23:33:23 INFO mapreduce.ExportJobBase: Exported 4 records.
```

Person table after execution of export command:

mysql> select * from Person; ++			
person_id ++	lname fname	area +	city
j 2 j j 3 j	Shyam Ram Tanya Priya James Brown Jhon Miller	Whitefiled New York	United States
4 rows in set (0.00 sec)			

Here we can see the same set pf records is loaded back using the export command.

<u>Task2:</u> Use Sqoop tool to export data present in SQOOPOUT folder made while demo of Import table with parameter person_id =3.

Answer2:

<u>Import command:</u> Import is done only for a single record with person_id = 3. – using the below command.

sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root -P -targetdir /sqoopout -m 1 --where "person_id = 3"

```
[acadgild@localhost ~]$ sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root -P -target-dir /sqoopout -m 1 --where "person id = 3"
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin_hadoop-2.0.4-alpha/../hcatalog does not exist! HCatalog jobs will fail.
Please set $HCAT HOME to the root of your HCatalog installation.
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin_hadoop-2.0.4-alpha/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO HOME to the root of your Accumulo installation.
18/03/22 00:16:22 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
Enter password:
```

Import Output:

```
18/03/22 00:16:57 INFO mapreduce.ImportJobBase: Transferred 37 bytes in 24.6791 seconds (1.4992 bytes/sec) 18/03/22 00:16:57 INFO mapreduce.ImportJobBase: Retrieved 1 records.

[acadgild@localhost ~]$ hadoop fs -cat /sqoopout/part-m-00000 18/03/22 00:17:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes whe re applicable New York,United States,Brown,James,3
```

Now delete the record in mysql having person_id = 3 before executing the export command.

Person table after removing the record with Person_id =3:

```
mysql> select * from Person;
                                                city
  person id | lname
                       fname
                                area
          1
              Shyam
                                Patna
                                                  Bihar
                       Priya
Miller
                                Whitefiled
          2
              Tanya
                                                  Bangalore
          4
              Jhon
                                 Los Angeles
                                                  United States
  rows in set (0.00 sec)
```

Export command remains the same for exporting the record as mentioned below.

sqoop export --connect jdbc:mysql://localhost/simplidb --table Person --username root -P -- export-dir /sqoopout/part-m-00000

```
[acadgild@localhost ~]$ sqoop export --connect jdbc:mysql://<mark>localhost</mark>/simplidb --table Person --username root -P --export-dir /sqoopou
t/part-m-00000|
Warnion: /home/acadmild/install/sqoop/sqoops] / 6 hip hadoon 2 0 4-alpha/ /hostalog does not exist! #Catalog jobs will fail
```

Export output:

```
18/03/22 00:18:56 INFO mapreduce.ExportJobBase: Transferred 670 bytes in 41.8507 seconds (16.0093 bytes/sec) 18/03/22 00:18:56 INFO mapreduce.ExportJobBase: Exported 1 records.
```

The record is added to person table as mentioned in the screenshot.

```
mysql> select * from Person;
 person_id | lname
                      fname
                                               city
          1 |
             Shyam
                      Ram
                               Patna
                                               Bihar
                               Whitefiled
                                               Bangalore
          2
              Tanya
                      Priya
          3
              James
                      Brown
                               New York
                                               United States
                      Miller
                               Los Angeles
                                               United States
          4
             Jhon
 rows in set (0.00 sec)
```