Assignment Submission- Session 6

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

Solution:
Data present in the sqoopout file generated by running import command is as in the screenshot below:

```
[acadgild@localhost ~]$ hadoop fs -cat /sqoopout/part-m-00000
18/09/06 00:23:03 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
syed,rizvi
akshat,shukla
rajat,saxena
ankur,rawal
```

Tables present before exporting in simplidb database:

```
mysql> show tables;
+-------------------+
| Tables_in_simplidb |
+-------------------+
| Person            |
| employee          |
+-------------------+
2 rows in set (0.00 sec)
```

Before running sqoop command to export data into a new table, creating the table in DB simplidb:

```
mysql> create table employee_export_data (firstname varchar(10), lastname varchar(10));
Query OK, 0 rows affected (0.07 sec)

mysql> show tables;
+----------------------+
| Tables_in_simplidb   |
+----------------------+
| Person               |
| employee             |
| employee_export_data |
+----------------------+
3 rows in set (0.00 sec)
```

Running export command and checking data that has been exported.

sqoop export --connect jdbc:mysql://localhost/simplidb --username root --password Root@123 -m 1 --table employee_export_data --export-dir /sqoopout --input-fields-terminated-by ','

```
[acadgild@localhost ~]$ sqoop export --connect jdbc:mysql://localhost/simplidb --username root --password Root@123 -m 1 --table employee_export_data --export-dir /sqoopout --input-fields-terminated-b
y ',';
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.
18/09/06 00:42:53 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
18/09/06 00:42:53 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
18/09/06 00:42:54 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
```

Data after export in the table:

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

mysql> select * from employee_export_data;
+-----------+----------+
| firstname | lastname |
+-----------+----------+
| syed      | rizvi    |
| akshat    | shukla   |
| rajat     | saxena   |
| ankur     | rawal    |
+-----------+----------+
4 rows in set (0.00 sec)
```

Task 2: Use Sqoop tool to import data present in MySql into hdfs location as per the following parameter, person_id =3.

Solution:

Data present in the table Person.

```
mysql> select * from Person;
+-----------+--------+--------+-----------------+---------+
| person_id | lname  | fname  | area            | city    |
+-----------+--------+--------+-----------------+---------+
|         1 | Shukla | Akshat | Sector_Awesome_31 | Gurgaon |
|         2 | Shukla | Akshat | Sector_Awesome_31 | Gurgaon |
|         3 | Shukla | Akshat | Sector_Awesome_31 | Gurgaon |
|         4 | Shukla | Akshat | Sector_Awesome_31 | Gurgaon |
|         5 | Shukla | Akshat | Sector_Awesome_31 | Gurgaon |
|         6 | Shukla | Akshat | Sector_Awesome_31 | Gurgaon |
|         7 | Shukla | Akshat | Sector_Awesome_31 | Gurgaon |
|         8 | Shukla | Akshat | Sector_Awesome_31 | Gurgaon |
|         9 | Shukla | Akshat | Sector_Awesome_31 | Gurgaon |
|        10 | Shukla | Akshat | Sector_Awesome_31 | Gurgaon |
+-----------+--------+--------+-----------------+---------+
10 rows in set (0.00 sec)
```

Running the sqoop import command for fetching data as per the condition:

sqoop import --connect jdbc:mysql://localhost/simplidb --username root --password Root@123 --table Person --target-dir /sqoopoutPersonId_3 -m 1 --where person_id=3

```
[acadgild@localhost ~]$ sqoop import --connect jdbc:mysql://localhost/simplidb --username root --password Root@123 --table Person --target-dir /sqoopoutPersonId_3 -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.
18/09/06 01:05:49 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
```

Getting the import data as below:

```
[acadgild@localhost ~]$ hadoop fs -ls /sqoopoutPersonId_3
18/09/06 01:08:01 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r--   1 acadgild supergroup          0 2018-09-06 01:06 /sqoopoutPersonId_3/_SUCCESS
-rw-r--r--   1 acadgild supergroup         42 2018-09-06 01:06 /sqoopoutPersonId_3/part-m-00000
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -cat /sqoopoutPersonId_3/part-m-00000
18/09/06 01:08:27 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Sector_Awesome_31,Gurgaon,Akshat,Shukla,3
```