Vijay's Assignment – Sqoop

a) New DB "simplibd" was created in mysql
b) New table Person was created inside DB simplidb
c) 5 Rows were inserted into Person

```
Database changed
mysql> select * from Person
    -> ;
+-----------+----------------+----------------+--------------+---------+
| person_id | Lname          | fname          | area         | city    |
+-----------+----------------+----------------+--------------+---------+
|         1 | Ramasubramanian | Vijay          | Ashok Nagar  | Chennai |
|         2 | Mani           | Divya          | Ashok Nagar  | Chennai |
|         3 | Vijay          | Bhuvan         | Ashok Nagar  | Chennai |
|         4 | Lakshmanan     | Ramasubramanian | Vadapalani   | Chennai |
|         5 | Ramasubramanian | Gowri          | Vadapalani   | Chennai |
+-----------+----------------+----------------+--------------+---------+
```

d)
e) Using "sqoop import" these five rows were imported into hdfs dir sqoopoutvij

```
[acadgild@localhost ~]$ sqoop import --connect jdbc:mysql://localhost/simplibd -
-table Person --username root -P --target-dir /sqoopoutvij
```

f)
g) Output directory sqoopoutvij contents were verified

```
[acadgild@localhost ~]$ hadoop fs -ls /sqoopoutvij
19/01/08 18:01:20 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Found 6 items
-rw-r--r--   1 acadgild supergroup          0 2019-01-08 18:00 /sqoopoutvij/_SUC
CESS
-rw-r--r--   1 acadgild supergroup         44 2019-01-08 18:00 /sqoopoutvij/part
-m-00000
-rw-r--r--   1 acadgild supergroup         33 2019-01-08 18:00 /sqoopoutvij/part
-m-00001
-rw-r--r--   1 acadgild supergroup         35 2019-01-08 18:00 /sqoopoutvij/part
-m-00002
-rw-r--r--   1 acadgild supergroup         48 2019-01-08 18:00 /sqoopoutvij/part
-m-00003
-rw-r--r--   1 acadgild supergroup         43 2019-01-08 18:00 /sqoopoutvij/part
-m-00004
```

h)

Task 1

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

a) New table Person_sqoop was created in mysql under the db simplibd with the same structure as Person

```
mysql> create table Person_sqoop(person_id INT NOT NULL, Lname varchar(20), fname varchar(20), area varchar(20), city varchar
(20), PRIMARY KEY (person_id));
Query OK, 0 rows affected (0.17 sec)
```

b) Using sqoop export the contents of sqoopoutvij library were exported into Person_sqoop table in mysql

```
[acadgild@localhost ~]$ sqoop export --connect jdbc:mysql://localhost/simplibd -
-username root -P --table Person_sqoop --export-dir /sqoopoutvij
```

c) Once the export is complete, the contents of the Person_sqoop table were verified

```
mysql> select * from Person_sqoop;
+-----------+----------------+----------------+--------------+---------+
| person_id | Lname          | fname          | area         | city    |
+-----------+----------------+----------------+--------------+---------+
|         1 | Ramasubramanian | Vijay          | Ashok Nagar  | Chennai |
|         2 | Mani           | Divya          | Ashok Nagar  | Chennai |
|         3 | Vijay          | Bhuvan         | Ashok Nagar  | Chennai |
|         4 | Lakshmanan     | Ramasubramanian | Vadapalani   | Chennai |
|         5 | Ramasubramanian | Gowri          | Vadapalani   | Chennai |
+-----------+----------------+----------------+--------------+---------+
5 rows in set (0.00 sec)
```

This task could also be performed to export on the same source Person mysql table but in that case -update-key person_id option to be used in sqoop export command.

Task2

Use Sqoop tool to export data present in SQOOPOUT folder made while demo of Import tablewith parameter person_id = 3.

a) New table Person_sqoop2 was created in mysql under the db simplibd with the same structure as Person

```
mysql> create table Person_sqoop2(person_id INT NOT NULL, Lname varchar(20), fname varchar(20), area varchar(20), city varcha
r(20), PRIMARY KEY (person_id));
Query OK, 0 rows affected (0.05 sec)
```

b) Using sqoop export the content of /sqoopoutvij/part-m-00002 file(which contains Person_id=3 data) alone was exported into Person_sqoop2 table in mysql

```
[acadgild@localhost ~]$ sqoop export --connect jdbc:mysql://localhost/simplibd --username root -P --table Person_sqoop2 --exp
ort-dir /sqoopoutvij/part-m-00002
```

c) Once the export is complete, the contents of the Person_sqoop table2 were verified

```
mysql> select * from Person_sqoop2;
+-----------+-------+-------+-------------+---------+
| person_id | Lname | fname | area        | city    |
+-----------+-------+-------+-------------+---------+
|         3 | Vijay | Bhuvan| Ashok Nagar | Chennai |
+-----------+-------+-------+-------------+---------+
1 row in set (0.00 sec)
```

This task could also be performed to export on the same source Person mysql table but in that case -update-key person_id option to be used in sqoop export command.