TASK-1-

At first we will check the tables in simplidb database. We have a table called Person with primary key as person_id-

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

mysql> select * from Person;
+-----------+-------+-------+------------+-----------+
| person_id | lname | fname | area       | city      |
+-----------+-------+-------+------------+-----------+
|         1 | Rizvi | Syed  | Whitefield | Bangalore |
|         2 | Rizvi | Syed  | Whitefield | Bangalore |
|         3 | Rizvi | Syed  | Whitefield | Bangalore |
|         4 | Rizvi | Syed  | Whitefield | Bangalore |
|         5 | Rizvi | Syed  | Whitefield | Bangalore |
|         6 | Rizvi | Syed  | Whitefield | Bangalore |
|         7 | Rizvi | Syed  | Whitefield | Bangalore |
|         8 | Rizvi | Syed  | Whitefield | Bangalore |
|         9 | Rizvi | Syed  | Whitefield | Bangalore |
|        10 | Rizvi | Syed  | Whitefield | Bangalore |
|        11 | Rizvi | Syed  | Whitefield | Bangalore |
|        12 | Rizvi | Syed  | Whitefield | Bangalore |
+-----------+-------+-------+------------+-----------+
12 rows in set (0.00 sec)
```

Below is the data present at HDFS location /sqoopout

```
[acadgild@localhost ~]$ hadoop fs -cat /sqoopout/*
18/07/22 21:38:58 WARN util.NativeCodeLoader: Unable to load n
1,Rizvi,Syed,Whitefield,Bangalore
2,Rizvi,Syed,Whitefield,Bangalore
3,Rizvi,Syed,Whitefield,Bangalore
4,Rizvi,Syed,Whitefield,Bangalore
5,Rizvi,Syed,Whitefield,Bangalore
6,Rizvi,Syed,Whitefield,Bangalore
7,Rizvi,Syed,Whitefield,Bangalore
8,Rizvi,Syed,Whitefield,Bangalore
9,Rizvi,Syed,Whitefield,Bangalore
10,Rizvi,Syed,Whitefield,Bangalore
11,Rizvi,Syed,Whitefield,Bangalore
12,Rizvi,Syed,Whitefield,Bangalore
```

Now we will delete the data from Person-

```
mysql> truncate Person;
Query OK, 0 rows affected (0.67 sec)

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

Now we will run the sqoop export command to export the contents from /sqoopout location in HDFS to sql table Person-

```
[acadgild@localhost ~]$ sqoop export --connect jdbc:mysql://localhost/simplidb --username root --password Root@123 --table Person --export-dir /sqoopout --input-fiel
ds-terminated-by ',' -m 1 --columns person_id,lname,fname,area,city
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.
18/07/22 21:49:24 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
18/07/22 21:49:24 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
18/07/22 21:49:24 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/07/22 21:49:24 INFO tool.CodeGenTool: Beginning code generation
```

Below screenshot shows that the table loaded in the table Person-

```
mysql> select * from Person;
+-----------+-------+-------+------------+-----------+
| person_id | lname | fname | area       | city      |
+-----------+-------+-------+------------+-----------+
|         1 | Rizvi | Syed  | Whitefield | Bangalore |
|         2 | Rizvi | Syed  | Whitefield | Bangalore |
|         3 | Rizvi | Syed  | Whitefield | Bangalore |
|         4 | Rizvi | Syed  | Whitefield | Bangalore |
|         5 | Rizvi | Syed  | Whitefield | Bangalore |
|         6 | Rizvi | Syed  | Whitefield | Bangalore |
|         7 | Rizvi | Syed  | Whitefield | Bangalore |
|         8 | Rizvi | Syed  | Whitefield | Bangalore |
|         9 | Rizvi | Syed  | Whitefield | Bangalore |
|        10 | Rizvi | Syed  | Whitefield | Bangalore |
|        11 | Rizvi | Syed  | Whitefield | Bangalore |
|        12 | Rizvi | Syed  | Whitefield | Bangalore |
+-----------+-------+-------+------------+-----------+
12 rows in set (0.00 sec)
```

TASK-2

Below screenshot shows that the table Person's content-

```
mysql> select * from Person;
+-----------+-------+-------+------------+-----------+
| person_id | lname | fname | area       | city      |
+-----------+-------+-------+------------+-----------+
|         1 | Rizvi | Syed  | Whitefield | Bangalore |
|         2 | Rizvi | Syed  | Whitefield | Bangalore |
|         3 | Rizvi | Syed  | Whitefield | Bangalore |
|         4 | Rizvi | Syed  | Whitefield | Bangalore |
|         5 | Rizvi | Syed  | Whitefield | Bangalore |
|         6 | Rizvi | Syed  | Whitefield | Bangalore |
|         7 | Rizvi | Syed  | Whitefield | Bangalore |
|         8 | Rizvi | Syed  | Whitefield | Bangalore |
|         9 | Rizvi | Syed  | Whitefield | Bangalore |
|        10 | Rizvi | Syed  | Whitefield | Bangalore |
|        11 | Rizvi | Syed  | Whitefield | Bangalore |
|        12 | Rizvi | Syed  | Whitefield | Bangalore |
+-----------+-------+-------+------------+-----------+
12 rows in set (0.00 sec)
```

Now we will run the sqoop import command to place the data from the table Person to HDFS location /sqoopout2 with Person_id =3 as shown in below screenshot-

sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root --password Root@123 --target-dir /sqoopout2 -m 1 --split-by person_id --where "person_id=3"

```
[acadgild@localhost ~]$ sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root --password Root@123 --target-dir /sqoopout2 -m 1 --spli
t-by person_id --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.
18/07/22 22:07:46 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
```

Below screenshot shows the data present at /sqoopout2 location with Person_id=3

```
[acadgild@localhost ~]$ hadoop fs -cat /sqoopout2/*
18/07/22 22:08:53 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your
3,Rizvi,Syed,Whitefield,Bangalore
[acadgild@localhost ~]$
```