

The page features three large, light blue, 3D-style circles. Two are in the upper right quadrant, one above the other, and a third, larger one is in the lower right quadrant. Thin blue lines extend from the top-left and top-right corners towards the circles, and another line extends from the bottom-left corner towards the bottom circle.

ACADGILD

ASSIGNMENT 6: SQOOP

SQOOP Tool – IMPORT and EXPORT command to fetch (pull) data from RDBMS to HDFS and vice-versa.

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Assignment 6: SQOOP

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

Solution:

Data present in Person table –

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

mysql>
```

Command executed to import data in HDFS under SQOOPOUT folder –

```
sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root --password Root@123 --target-dir /SQOOPOUT -m 1
```

```
[acadgild@192 ~]$ sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root --password Root@123 --target-dir /SQOOPOUT -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.
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.
18/08/01 01:34:12 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
18/08/01 01:34:12 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
```

Data present in SQOOPOUT folder of HDFS is –

```
[acadgild@192 ~]$ hadoop fs -ls /SQOOPOUT
18/08/01 01:52:02 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 2018-08-01 01:34 /SQOOPOUT/_SUCCESS
-rw-r--r-- 1 acadgild supergroup 150 2018-08-01 01:34 /SQOOPOUT/part-m-00000
[acadgild@192 ~]$ hadoop fs -cat /SQOOPOUT/part-m-00000
18/08/01 01:52:24 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
1,Shyam,Ram,Patna,Bihar
2,Tanya,Priya,Whitefiled,Bangalore
3,James,Brown,New York,United States
4,Jhon,Miller, Los Angeles ,United States
789,a,b,c,d
[acadgild@192 ~]$
```

Exporting data from HDFS SQOOPOUT folder to SQL table **Persontask1** –

```
[acadgild@192 ~]$ sqoop export --connect jdbc:mysql://localhost/simplidb --table Persontask1 --username root --password Root@123 --export-dir /SQOOPOUT/ -m 1
```

Assignment 6: SQOOP

Data exported from HDFS to table "Persontask1" –

```
mysql> select * from Persontask1;
+-----+-----+-----+-----+-----+
| person_id | lname | fname | area | city |
+-----+-----+-----+-----+-----+
| 1 | Shyam | Ram | Patna | Bihar |
| 2 | Tanya | Priya | Whitefiled | Bangalore |
| 3 | James | Brown | New York | United States |
| 4 | Jhon | Miller | Los Angeles | United States |
| 789 | a | b | c | d |
+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql>
```

TASK 2:

Task2

Use Sqoop tool to import data present in SQOOPOUT folder made while demo of Import table with parameter person_id =3.

Command to Import from table created in Task 1 (Persontask1) to HDFS SQOOPOUTEXPORT

```
[acadgild@192 ~]$ sqoop import --connect jdbc:mysql://localhost/simplidb --table Persontask1 --username root --password Root@123 --target-dir /SQOOPOUTEXPORT --m 1
```

Output –

```
[acadgild@192 ~]$ hadoop fs -ls /SQOOPOUTEXPORT
18/08/01 02:23:23 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 2018-08-01 02:21 /SQOOPOUTEXPORT/_SUCCESS
-rw-r--r-- 1 acadgild supergroup 37 2018-08-01 02:21 /SQOOPOUTEXPORT/part-m-00000
[acadgild@192 ~]$ hadoop fs -cat /SQOOPOUTEXPORT/part-m-00000
18/08/01 02:23:51 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
3,James,Brown,New York,United States
[acadgild@192 ~]$
```