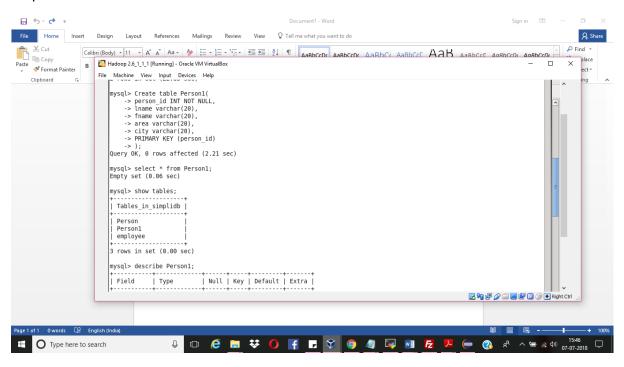
# Session 6: DATA INGESTION TOOL SQOOP & INTRODUCTION TO CASE STUDY

# Assignment 1

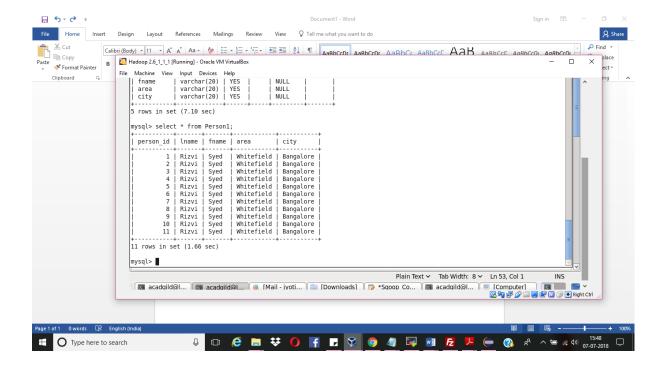
## Task 1

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

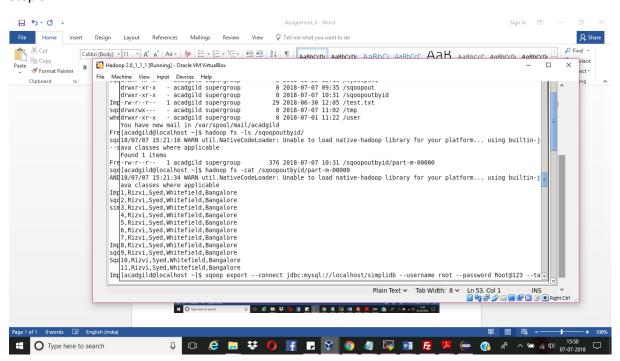
### Step 1:



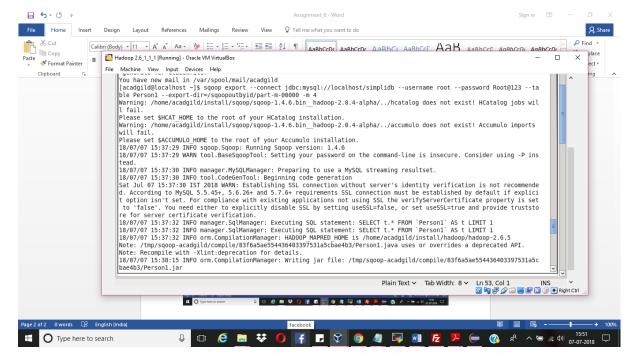
Step 2:



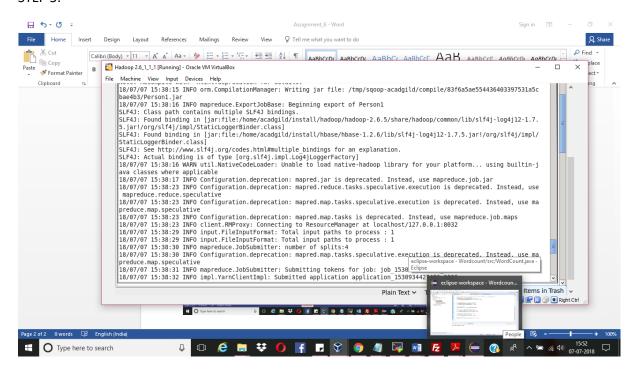
#### Step 3:



Step 4:



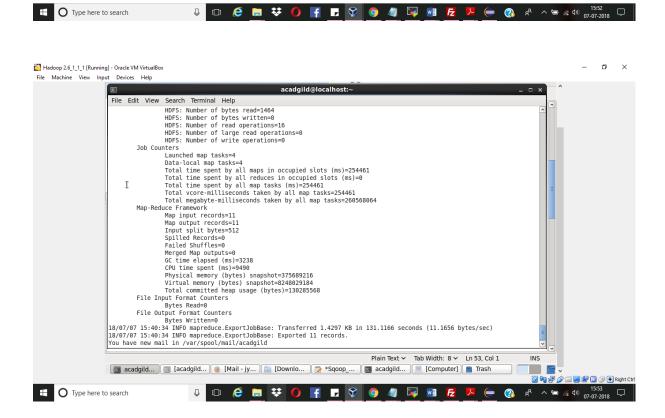
#### STEP 5:



```
Hadoop 2.6.1.11 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help
18/07/07 15:38:39 1NF0 Configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use map preduce.map.speculative
18/07/07 15:38:30 1NF0 Configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use map preduce.map.speculative
18/07/07 15:38:31 1NF0 mapreduce.Jobsbubmitter: Submitting tokens for job: job 1530934427486 0006
18/07/07 15:38:32 1NF0 mapreduce.Job: The url to track the job: http://localhost:8008/proxy/application_1530934427486 0006
18/07/07 15:38:32 1NF0 mapreduce.Job: The url to track the job: http://localhost:8008/proxy/application_1530934427486 0006
18/07/07 15:39:18 1NF0 mapreduce.Job: Job job 1530934427486 0006 running in uber mode: false
18/07/07 15:39:18 1NF0 mapreduce.Job: map 0% reduce 0%
18/07/07 15:40:30 1NF0 mapreduce.Job: map 10% reduce 0%
18/07/07 15:40:33 1NF0 mapreduce.Job: map 10% reduce 0%
18/07/07 15:40:33 1NF0 mapreduce.Job: map 10% reduce 0%
18/07/07 15:40:33 1NF0 mapreduce.Job: Job job 1530934427486_0006 completed successfully
18/07/07 15:40:33 1NF0 mapreduce.Job: Ounters:

File: Number of bytes read=0
File: Number of bytes read=0
File: Number of bytes read=1644
HDFS: Number of bytes vritten=50
HDFS: Number of bytes vritten=50
HDFS: Number of read operations=0
HDFS: Number of bytes vritten=50
HDFS: Number of bytes vritten=50
HDFS: Number of vrite operations=0
HDFS: Number of vrite
```



# Task2

Assignment\_6 - Word

Use Sqoop tool to export data present in SQOOPOUT folder made while demo of Import table with parameter person\_id =3.

```
mysql> select * from Person2;
Empty set (0.00 sec)
mysql> |
```

Check Sgoopoutbyid folder present in hadoop.

```
[acadgild@localhost ~]$ hadoop fs -ls /sqoopoutbyid
[algoeque] 14:12:40 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
applicable
USA,NJ,BBB,AAA,3
```

Now we will write export command to fetch data from sqoopoutbyid folder to our mysql PERSON2 table.

```
;|bbb||MAR||3
|ild@localhost ~]$ sqoop export -m 1 --connect jdbc:mysql://localhost/simplidb --username root --P --table Person2 --export-dir /sqo
  opoutby1d/
Marning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin_hadoop-2.0.4-alpha/../hcatalog does not exist! HCatalog jobs will fail.
Please set SHCAT_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 SACCUMULO HOME to the root of your Accumulo installation.
18/08/19 14:14:02 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
| Rease Set SactUMBLO_UNDE to the Foot of your Accumule Instaction.
| 18/08/19 14:14:02 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6 |
| Enter password: | 18/08/19 14:14:07 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
| 18/08/19 14:14:07 INFO tool.CodeGenTool: Beginning code generation |
| Sun Aug 19 14:14:07 INFO tool.CodeGenTool: Beginning code generation |
| Sun Aug 19 14:14:07 INFO tool.CodeGenTool: Beginning Code generation |
| Sun Aug 19 14:14:07 INFO tool.CodeGenTool: Beginning CSL connection without server's identity verification is not recommended. According to My SQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be established by default if explicit option isn't set. For compliance with existing applications not using SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification. |
| 18/08/19 14:14:09 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person2' AS t LIMIT 1 |
| 18/08/19 14:14:09 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person2' AS t LIMIT 1 |
| 18/08/19 14:14:09 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person2' AS t LIMIT 1 |
| 18/08/19 14:14:109 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person2' AS t LIMIT 1 |
| 18/08/19 14:14:12 INFO mapreduce.StyportModendor.Scd00353655b2bf/Person2.jar |
| 18/08/19 14:14:12 INFO mapreduce.ExportJobBase: Beginning export of Person2 |
| 18/08/19 14:14:12 INFO mapreduce.ExportJobBase: Beginning export of Person2 |
| 18/08/19 14:14:12 INFO mapreduce.ExportJobBase: Beginning export of Person2 |
| 18/08/19 14:14:12 INFO mapreduce.ExportJobBase: Beginning export of Person2 |
| 18/08/19 14:14:12 INFO mapreduce.ExportJobBase: Beginning export of Person2 |
| 18/08/19 14:14:12 INFO mapreduce.ExportJobBase: Beginning export of Person2 |
| 18/08/19 14:14:12 INFO mapreduce.ExportJobBase:
  .class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.log4jLoggerFactory]
18/08/19 14:14:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/08/19 14:14:13 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar
18/08/19 14:14:15 INFO Configuration.deprecation: mapred.reduce.tasks.speculative.execution is deprecated. Instead, use mapreduce.reduce.
18/08/19 14:14:15 INFO Configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use mapreduce.map.speculative
 ative
18/08/19 14:14:15 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
18/08/19 14:14:15 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
```

```
18/08/19 14:14:15 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
18/08/19 14:14:15 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/08/19 14:14:17 INFO input.FileInputFormat: Total input paths to process: 1
18/08/19 14:14:17 INFO input.FileInputFormat: Total input paths to process: 1
18/08/19 14:14:18 INFO mapreduce.JobSubmitter: number of splits:1
18/08/19 14:14:18 INFO Configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use mapreduce.map.specul
18/08/19 14:14:18 INFO mapreduce. JobSubmitter: Submitting tokens for job: job_1534667273374_0003
18/08/19 14:14:18 INFO mapreduce. JobSubmitter: Submitting tokens for job: job_1534667273374_0003
18/08/19 14:14:19 INFO impl.YarnClientImpl: Submitted application application_1534667273374_0003
18/08/19 14:14:19 INFO mapreduce. Job: The url to track the job: http://localhost:8088/proxy/application_1534667273374_0003
18/08/19 14:14:19 INFO mapreduce. Job: Running job: job_1534667273374_0003
18/08/19 14:14:31 INFO mapreduce. Job: Job job 1534667273374_0003 running in uber mode : false
18/08/19 14:14:34 INFO mapreduce. Job: map 0% reduce 0%
18/08/19 14:14:44 INFO mapreduce. Job: map 100% reduce 0%
18/08/19 14:14:45 INFO mapreduce. Job: Job job_1534667273374_0003 completed successfully
18/08/19 14:14:45 INFO mapreduce. Job: Job job_1534667273374_0003 completed successfully
18/08/19 14:14:45 INFO mapreduce. Job: Counters: 30
File System Counters

FILE: Number of bytes written=127548
FILE: Number of bytes written=127548
FILE: Number of bytes written=127548
FILE: Number of write operations=0
FILE: Number of bytes written=0
HDFS: Number of bytes written=0
Launched map tasks=1
                                                             Job Counters

Launched map tasks=1

Data-local map tasks=1

Total time spent by all maps in occupied slots (ms)=8048

Total time spent by all reduces in occupied slots (ms)=0

Total time spent by all map tasks (ms)=8048

Total vcore-milliseconds taken by all map tasks=8048

Total megabyte-milliseconds taken by all map tasks=8241152

Map-Reduce Framework

Man input records=1
                                                                                                                                Map input records=1
Map output records=1
```

```
Launched map tasks=1

Data-local map tasks=1

Total time spent by all maps in occupied slots (ms)=8048

Total time spent by all reduces in occupied slots (ms)=0

Total time spent by all map tasks (ms)=8048

Total vcore-milliseconds taken by all map tasks=8048

Total megabyte-milliseconds taken by all map tasks=8241152

Map-Reduce Framework

Map input records=1

Map output records=1

Input split bytes=128

Spilled Records=0

Failed Shuffles=0

Merged Map outputs=0

GC time elapsed (ms)=124

CPU time spent (ms)=1950

Physical memory (bytes) snapshot=105771008

Virtual memory (bytes) snapshot=2061332480

Total committed heap usage (bytes)=32571392

File Input Format Counters

Bytes Read=0

File Output Format Counters

Bytes Written=0

18/08/19 14:14:46 INFO mapreduce.ExportJobBase: Transferred 148 bytes in 31.0136 seconds (4.7721 bytes/sec)

18/08/19 14:14:46 INFO mapreduce.ExportJobBase: Exported 1 records.

You have new mail in /var/spool/mail/acadgild

[acadgild@localhost ~]$
```

# Now Check the Exported data in PERSON2 Table;

```
mysql> select * from Person2;
Empty set (0.00 sec)

mysql> select * from Person2;

| person_id | lname | fname | area | city |

| 3 | AAA | BBB | USA | NJ |

1 row in set (0.00 sec)

mysql> |
```