Task 2. Use Sqoop command to ingest the data from RDS into the HBase Table.

- 1) Previous Task we have created the RDS Table and load data from csv files.
- 2) Now we will create HBase table and by using sqoop will import RDS table data to HBase table

Create HBase Table - HBase table named trips_data' with a column family named 'cf'

```
hbase(main):007:0* create 'trips_data', 'cf'
0 row(s) in 1.3010 seconds
=> Hbase::Table - trips_data
```

Sqoop import -

We provided RDS server connection details here to get Trips table records. And passed RDS/HBase table Name, Column-family and Row-key to insert the data into HBase table by using 4 mappers.

```
sqoop import --connect jdbc:mysql://case-study-dbb.ck4jzoqb1yn7.us-east-
1.rds.amazonaws.com:3306/YellowTaxi \
--username admin \
--password user1234 \
--table taxi \
--hbase-table trips_data \
--column-family cf \
--split-by vendorID \
--num-mappers 4;
```

```
Found binding in [jarifile:/usr/lib/hive/lib/log4j-slf4j-impl-2.17.1.jar!/org/slf4j/impl/StaticLoggerBinder.class]

See http://www.slf4j.org/ocodes.html#multiple_bindings for an explanation.

Actual binding is of type [org.slf4j.impl.log4jdoggerFactory]

3 08:04:03 INFO sqoop.Sqoop; Running Sqoop version: 1.4.7

3 08:04:03 INFO sqoop.Sqoop; Running Sqoop version: 1.4.7

3 08:04:04 INFO manager.MySQlManager: Preparing to gene a MySQl streaming resultset.

3 08:04:04 INFO manager.MySQlManager: Preparing to gene a MySQl streaming resultset.

3 08:04:04 INFO manager.MySQlManager: Preparing to gene a MySQL streaming resultset.

3 08:04:04 INFO manager.SqlManager: Executing sQL statement: SELECT t.* FROM 'taxi' As t LIMIT 1

3 08:04:04 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'taxi' As t LIMIT 1

3 08:04:04 INFO omn.OmpilationManager: MySQLMAnager: BXDOOP.MYFERD HONE is /usr/lib/hadop-maprole

tmp/sqoop-root/compile/focecffoce4f5260eeb1daf4aa253a5/taxi.java uses or overrides a deprecated AFI.

compile with -Xlintieprecation for details.

3 08:04:07 INFO omn.CompilationManager: Writing jar file: /tmp/sqoop-root/compile/focecffoc3e4f5260eeb14af4aa253a5/taxi.java

3 08:04:07 INFO omn.CompilationManager: Writing jar file: /tmp/sqoop-root/compile/focecffoc3e4f5260eeb14af4aa253a5/taxi.java

3 08:04:07 INFO omn.CompilationManager: BXDOOP to exercise a MySQL-speelfic fast path.

3 08:04:07 INFO manager.MySQLManager: This transfer can be faster! Use the --direct

3 08:04:07 INFO manager.MySQLManager: ption to exercise a MySQL-speelfic fast path.

3 08:04:07 INFO manager.MySQLManager: ption to exercise a MySQL-speelfic fast path.

3 08:04:07 INFO manager.MySQLManager: ption to exercise a MySQL-speelfic fast path.

3 08:04:07 INFO manager.MySQLManager: ption to exercise a MySQL-speelfic fast path.

3 08:04:07 INFO manager.MySQLManager: ption to exercise a MySQL-speelfic fast path.

3 08:04:07 INFO manager.MySQLManager: ption to exercise a MySQL-speelfic fast path.

3 08:04:07 INFO manager.MySQLManager: 
                                                                            FILE: Number of bytes read=0
FILE: Number of bytes written=225212
FILE: Number of pytes written=225212
FILE: Number of large read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=87
HDFS: Number of bytes written=0
HDFS: Number of read operations=0
HDFS: Number of read operations=0
HDFS: Number of read operations=0
HDFS: Number of write operations=0
JDD Counters
Launched map tasks=1
Other local map tasks=1
Total time spent by all maps in occupied slots (ms)=264432
Total time spent by all reduces in occupied slots (ms)=0
Total time spent by all map tasks (ms)=5509
Total vore-milliseconds taken by all map tasks=5509
Total vore-milliseconds taken by all map tasks=5509
Total megabyte-milliseconds taken by all map tasks=8461824
Map-Reduce Framework
Map input records=198
Map output split bytes=87
Spilled Records=0
Failed Shuffles=0
Merged Map outputs=0
GC time elapsed (ms)=187
CPU time spent (ms)=5440
Physical memory (bytes) snapshot=367321088
Virtual memory (bytes) snapshot=3315101696
Total committed heap usage (bytes)=328204288
File Input Format Counters
Bytes Read=0
File Output Format Counters
Bytes Written=0
Bytes Wri
```

bassa (mana) (MO) (h. asan 'tanana data'	
base(main):002:0> scan 'trips_data'	COLUMN SELE
OW	COLUMN+CELL
	column=cf:Airport_fee, timestamp=1683443492125, value=0.0
	column=cf:DOLocationID, timestamp=1683443492125, value=236
1	column=cf:PULocationID, timestamp=1683443492125, value=140
1	column=cf:RatecodeID, timestamp=1683443492125, value=1
1	column=cf:VendorID, timestamp=1683443492125, value=1
1	column=cf:congestion_surcharge, timestamp=1683443492125, value=0.0
1	column=cf:extra, timestamp=1683443492125, value=0.5
1	column=cf:fare_amount, timestamp=1683443492125, value=6.5
1	column=cf:improvement_surcharge, timestamp=1683443492125, value=0.3
1	column=cf:mta_tax, timestamp=1683443492125, value=0.5
1	column=cf:passenger_count, timestamp=1683443492125, value=1
1	column=cf:payment_type, timestamp=1683443492125, value=2
1	column=cf:store_and_fwd_flag, timestamp=1683443492125, value=N
1	column=cf:tip_amount, timestamp=1683443492125, value=0.0
1	column=cf:tolls_amount, timestamp=1683443492125, value=0.0
1	column=cf:total_amount, timestamp=1683443492125, value=7.8
1	column=cf:trip_distance, timestamp=1683443492125, value=1.2
10	column=cf:Airport_fee, timestamp=1683443492125, value=0.0
10	column=cf:D0LocationID, timestamp=1683443492125, value=48
10	column=cf:PULocationID, timestamp=1683443492125, value=246
10	column=cf:RatecodeID, timestamp=1683443492125, value=1
10	column=cf:VendorID, timestamp=1683443492125, value=1
10	column=cf:congestion_surcharge, timestamp=1683443492125, value=0.0
10	column=cf:extra, timestamp=1683443492125, value=0.5
10	column=cf:fare_amount, timestamp=1683443492125, value=12.0
10	column=cf:improvement_surcharge, timestamp=1683443492125, value=0.3
10	column=cf:mta_tax, timestamp=1683443492125, value=0.5
10	column=cf:passenger_count, timestamp=1683443492125, value=1
10	column=cf:payment_type, timestamp=1683443492125, value=2
10	column=cf:store_and_fwd_flag, timestamp=1683443492125, value=N
10	column=cf:tip_amount, timestamp=1683443492125, value=0.0
10	column=cf:tolls_amount, timestamp=1683443492125, value=0.0
10	column=cf:total_amount, timestamp=1683443492125, value=13.3
10	column=cf:trip_distance, timestamp=1683443492125, value=1.0
100	column=cf:Airport_fee, timestamp=1683443492125, value=0.0
100	column=cf:DOLocationID, timestamp=1683443492125, value=162
100	column=cf:PULocationID, timestamp=1683443492125, value=75
100	column=cf:RatecodeID, timestamp=1683443492125, value=1
100	column=cf:VendorID, timestamp=1683443492125, value=1
100	column=cf:congestion_surcharge, timestamp=1683443492125, value=0.0
100	column=cf:extra, timestamp=1683443492125, value=0.5
100	column=cf:fare_amount, timestamp=1683443492125, value=9.5
100	column=cf:improvement_surcharge, timestamp=1683443492125, value=0.3
100	column=cf:mta_tax, timestamp=1683443492125, value=0.5
100	column-cf:passenger count timestamp-1683443492125 value-1