**\*\*\*\*\* Import table from RDBMS to HDFS \*\*\*\*\***

sqoop import \

--connect jdbc:mysql://localhost/hive \

--username root \

--password hadoop \

--query 'select \* from hive.emp where $CONDITIONS' \

--target-dir '/tmp' \

--m 1

**Note:** We can specify the target directory while importing table data into HDFS using the Sqoop import tool.

**\*\*\*\*\* Import Subset of Table Data \*\*\*\*\***

sqoop import \

--connect jdbc:mysql://localhost/userdb \

--username root \

--table emp \

--where “city ='Amaravathi'” \

--target-dir '/tmp' \

--m 1

**Note:** We can import a subset of a table using the ‘where’ clause in Sqoop import tool.

**\*\*\*\*\* Export Table from HDFS to RDBMS \*\*\*\*\***

sqoop export \

--connect jdbc:mysql://localhost/hive \

--username root \

--password hadoop \

--table emp \

--export-dir /tmp/part-m-00000 \

--m 1

\*\*\*\*\* **List Databases from RDBMS** \*\*\*\*\*

sqoop list-databases \

--connect jdbc:mysql://localhost \

--username root \

--password hadoop \

**Note:** The following command is used to list all the databases in the MySQL database server

\*\*\*\*\* **List Tables from RDBMS** \*\*\*\*\*

sqoop list-tables \

--connect jdbc:mysql://localhost/hive \

--username root \

--password hadoop

**Note:** The following command is used to list all the tables in the hive database of MySQL database server.

**\*\*\*\*\* Incremental Append \*\*\*\*\***

sqoop import \

--connect jdbc:mysql://localhost/hive \

--table emp \

--username root \

--password hadoop \

--check-column sno \

--incremental append \

--last-value 12 \

--m 1

**Note:** Incremental import is a technique that imports only the newly added rows in a table.

**\*\*\*\*\* Incremental Update \*\*\*\*\***

sqoop import \

--connect jdbc:mysql://localhost/hive \

--table emp

--username root \

--password hadoop \

--check-column date \

--incremental lastmodified \

--last-value 2007-05-25 \

--target-dir /tmp \

--m 1

**\*\*\*\*\* Import all tables from RDBMS \*\*\*\*\***

sqoop import-all-tables \

--connect jdbc:mysql://localhost/hive \

--username root \

--password hadoop1 \

--target-dir '/tmp' \

--m 1

**Note:** If you are using the import-all-tables, it is mandatory that every table in that database must have a primary key field.

**\*\*\*\*\* To view the data from a table on console by EVAL \*\*\*\*\***

sqoop eval \

--connect jdbc:mysql://localhost/hive \

--username root \

--password hadoop \

--query "select \* from emp limit 3"

**\*\*\*\*\* Import table from RDBMS to HIVE \*\*\*\*\***

sqoop-import \

--connect "jdbc:mysql://localhost/hive" \

--username root \

--password hadoop \

--table emp \

--hive-import \

--hive-database hdfs \

--m 1

**Note:** If you’re not specifying Database name then table store under Default Database and the stored path is **/user/hive/warehouse**

**\*\*\*\*\* Options file Creation \*\*\*\*\***

import

--connect

jdbc:mysql://localhost/hive

--username

root

--password

hadoop

**Note:** Write this syntax in vi (**Example: vi option**) editor

**\*\*\*\*\* Options file to provide Security \*\*\*\*\***

sqoop --options-file /root/opt \

--table emp \

--target-dir /jkjk \

--m 1

**\*\*\*\*\* Import table from RDBMS to HIVE Table \*\*\*\*\***

sqoop-import \

--connect "jdbc:mysql://localhost/hive" \

--username root \

--password hadoop \

--table emp \

--hive-import \

--hive-database hdfs \

--hive-table Dept

--m 1

**Note:** If you want import table data to a particular hive table then schema should be same for both tables

**\*\*\*\*\* Create Sqoop Job \*\*\*\*\***

sqoop job \

--create myjob \

--import \

--connect jdbc:mysql://localhost/hive \

--username root \

--table emp \

--m 1

**Note:** The following command is used to create a job that is importing data from the employee table in the db database to the HDFS file.

**\*\*\*\*\* Verify Job \*\*\*\*\***

sqoop job --list

**Note:** The following command is used to verify the list of saved Sqoop jobs.

**\*\*\*\*\* Inspect Job \*\*\*\*\***

sqoop job --show myjob

**Note:** It shows the tools and their options, which are used in myjob.

**\*\*\*\*\* Execute Job \*\*\*\*\***

sqoop job --exec myjob

**Note:** The following command is used toexecute a saved job called myjob.

**\*\*\*\*\* Codegen Command for Code Generation for a table \*\*\*\*\***

sqoop codegen \

--connect jdbc:mysql://localhost/hive \

--username root \

--table emp