create table student\_master(

student\_id int not null auto\_increment, name varchar(40) not null, address varchar(40) not null, primary key (student\_id)

);

create table fy(

fy\_id int not null auto\_increment, student\_id int not null, result double not null, primary key (fy\_id)

);

\*\* List database

sqoop list-databases --connect jdbc:mysql://localhost --username root --password 'vishal';

student\_id int not null auto\_increment, name varchar(40) not null, address varchar(40) not null,

\*\* List Tables

sqoop list-tables --connect jdbc:mysql://localhost/college --username root --password 'vishal';

\*\* Import table from MySQL to HDFS with Key

sqoop import --connect jdbc:mysql://localhost/college --username root student\_id int not null auto\_increment, name varchar(40) not null, address varchar(40) not null, --password 'vishal' --table student\_master --target-dir /sqoop/student\_master;

- with by default 4 mapper

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table student\_master --target-dir /sqoop/student\_master1 -m 1;

- with one mapper only

\*\* Import table from MySQL to HDFS without Key

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table topten --target-dir /sqoop/topten; - fail as no primary key for mappers to divide data

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table topten --target-dir /sqoop/topten -m 1; - only one mapper will run as m= 1 and no primary key

\*\* Import table from MySQL to HDFS as sequence file

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table topten --target-dir /sqoop/toptenseq --as-sequencefile -m 1;

\*\* Import table from MySQL to HDFS as avrodata file

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table topten --target-dir /sqoop/toptenavro --as-avrodatafile -m 1;

\*\* Import table from MySQL to HDFS using where clause

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table student\_master --where 'student\_id = 1 or student\_id = 2' --target-dir /sqoop/whereclause -m 1;

\*\* Import table from MySQL to HDFS using where query

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' **--query** 'select \* from student\_master where **$CONDITIONS** and student\_id=2' --target-dir /sqoop/usingquery -m 1;

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' **--query** 'select a.student\_id, a.name, a.address, b.result from student\_master a, fy b where $CONDITIONS and **a.student\_id = b.student\_id**' --target-dir /sqoop/usingqueryjoin -m 1; --using Inner join

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' **--query** 'select a.student\_id, a.name, a.address, b.result from student\_master a **left outer join** fy b on a.student\_id = b.student\_id where $CONDITIONS' --target-dir /sqoop/leftouter -m 1; --using left outer join

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' **--query** 'select a.student\_id, a.name, a.address, b.result from student\_master a **right outer join** fy b on a.student\_id = b.student\_id where $CONDITIONS' --target-dir /sqoop/rightouter -m 1; --using right outer join

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' **--query** 'select a.student\_id, a.name, a.address, b.result from fy b **right outer join** student\_master a on a.student\_id = b.student\_id where $CONDITIONS' --target-dir /sqoop/rightouter1 -m 1; --using right outer join

\*\* Import table from MySQL to HDFS Using incremental

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table student\_master --check-column student\_id --incremental **append** --target-dir /sqoop/student\_master1 --last-value 4 -m 1;

last-modified is pending.

\*\* Import table from MySQL to HDFS using column clause

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table student\_master **--columns** "student\_id,name" --target-dir /sqoop/columnclause;

\*\* Import all tables from MySQL to HDFS

sqoop import-all-tables --connect jdbc:mysql://localhost/college --username root --password 'vishal' --warehouse-dir /sqoop/alltables -m 1;

\*\* Import table from MySQL to HIVE

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table student\_master --hive-import --hive-table college.student\_profile -m 1;

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table fy --hive-import --hive-table college.fy\_results -m 1;

-------Hive Structure

student\_id int

name string

address string

-------MySQL Structure

student\_id int

name varchar(40)

address varchar(40)

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table student\_master --columns "student\_id,name" --hive-import --hive-table college.student\_profile1 -m 1; --using columns clause

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table student\_master --where "student\_id = 1 or student\_id = 2" --hive-import --hive-table college.student\_profile2 -m 1; --using where clause

sqoop import --connect jdbc:mysql://localhost/college --username root --password 'vishal' --query 'select \* from student\_master where $CONDITIONS' **--target-dir /user/hduser1** --hive-import --hive-table college.student\_profile3 -m 1; --using query

\*\* Import table from MySQL to HIVE Incremental

Append mode for hive is not supported yet, however it can be done by incremental import to HDFS and mapping your hive table to sqoop’s target-dir.

\*\* Export from HDFS to MySQL

sqoop export --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table student\_master1 --export-dir /sqoop/alltables/student\_master/part-m-00000 --input-fields-terminated-by ',' ;

| student\_id | name | address |

| 1 | Sanjay | Bangalore |

| 2 | Rajiv | Delhi |

| 3 | Rajesh | Chennai |

| 4 | Sandeep | Delhi |

sqoop export --connect jdbc:mysql://localhost/college --username root --password 'vishal' --table student\_master1 --update-mode allowinsert --update-key student\_id --export-dir /sqoop/part --input-fields-terminated-by ',' ;

| student\_id | name | address |

| 1 | Vivek | Bangalore |

| 2 | Ria | Delhi |

| 3 | Rajesh | Chennai |

| 4 | Sandeep | Delhi |

| 5 | Vishal | Pune |

| 6 | Swapnil | Mumbai |