

## Sqoop Experiment:

1. Login to mysql using following command

```
mysql -u root -pcloudera
```

2.

1. create database college;
2. use college;
3. create table student(StudentID int NOT NULL,Name varchar(20),Phone\_No varchar(10),Department varchar(10),PRIMARY KEY(StudentID));
4. insert into student values(1,"Merisa",876721086,"COMPS");  
insert into student values(2,"Priyanka",9847582901,"IT");  
insert into student values(3,"Siya",6374823918,"EXTC");  
insert into student values(4,"Ishaan",8978323934,"EXTC");  
insert into student values(5,"Jeil",8921034567,"IT");

5. Sqoop - list database

```
sqoop list-databases --connect jdbc:mysql://quickstart:3306/ --password cloudera  
--username root;
```

```
information_schema  
cm  
college  
employee  
firehose  
hue  
metastore  
mysql  
nav  
navms  
oozie  
retail_db  
rman  
sentry
```

6. Sqoop - list tables

```
sqoop list-tables --connect jdbc:mysql://quickstart:3306/college --username root  
--password cloudera;
```

```
[cloudera@quickstart ~]$ sqoop list-ta  
Warning: /usr/lib/sqoop/./accumulo do  
Please set $ACCUMULO_HOME to the root  
23/11/05 20:50:30 INFO sqoop.Sqoop: Rui  
23/11/05 20:50:30 WARN tool.BaseSqoopT  
23/11/05 20:50:30 INFO manager.MySQLMa  
student
```

## A] Sqoop- IMPORT Command

1] importing table from my sql to HDFS:

```
sqoop import --connect jdbc:mysql://quickstart:3306/college --password cloudera  
--username root --table student;
```

```

Bytes Written=119
23/11/05 21:02:58 INFO mapreduce.ImportJobBase: Transferred 119 bytes in 35.5377 seconds (3.3486 bytes/sec)
23/11/05 21:02:58 INFO mapreduce.ImportJobBase: Retrieved 5 records.

```

## hadoop fs -ls

```

[cloudera@quickstart ~]$ hadoop fs -ls
Found 1 items
drwxr-xr-x - cloudera cloudera 0 2023-11-05 21:02 student

```

## hadoop fs -ls student

```

Found 6 items
-rw-r--r-- 1 cloudera cloudera 0 2023-11-05 21:02 student/_SUCCESS
-rw-r--r-- 1 cloudera cloudera 25 2023-11-05 21:02 student/part-m-00000
-rw-r--r-- 1 cloudera cloudera 25 2023-11-05 21:02 student/part-m-00001
-rw-r--r-- 1 cloudera cloudera 23 2023-11-05 21:02 student/part-m-00002
-rw-r--r-- 1 cloudera cloudera 25 2023-11-05 21:02 student/part-m-00003
-rw-r--r-- 1 cloudera cloudera 21 2023-11-05 21:02 student/part-m-00004

```

## hadoop fs -cat /user/cloudera/student/part\*

```

[cloudera@quickstart ~]$ hadoop fs -cat /user/cloudera/student/part*
1,Merisa,876721086,COMPS
2,Priyanka,9847582901,IT
3,Siya,6374823918,EXTC
4,Ishaan,8978323934,EXTC
5,Jeil,8921034567,IT

```

## sqoop import --connect jdbc:mysql://quickstart:3306/college --password cloudera --username root --table student --target-dir /user/cloudera/xie;

```

Bytes Written=119
23/11/05 21:20:52 INFO mapreduce.ImportJobBase: Transferred 119 bytes in 31.2413 seconds (3.8091 bytes/sec)
23/11/05 21:20:52 INFO mapreduce.ImportJobBase: Retrieved 5 records.

```

## hadoop fs -ls

Found 2 items

```

drwxr-xr-x - cloudera cloudera 0 2023-11-05 21:02 student
drwxr-xr-x - cloudera cloudera 0 2023-11-05 21:20 xie

```

## hadoop fs -cat /user/cloudera/xie/part\*

```

1,Merisa,876721086,COMPS
2,Priyanka,9847582901,IT
3,Siya,6374823918,EXTC
4,Ishaan,8978323934,EXTC
5,Jeil,8921034567,IT

```

```
sqoop import --connect jdbc:mysql://quickstart:3306/college --password cloudera
--username root --table student --where "StudentID<4" --target-dir
/user/cloudera/student1;
```

```
23/11/05 21:31:35 INFO mapreduce.ImportJobBase: Transferred 73 bytes in 22.2926 seconds (3.2746 bytes/sec)
23/11/05 21:31:35 INFO mapreduce.ImportJobBase: Retrieved 3 records.
```

```
hadoop fs -cat /user/cloudera/student1/part*
```

```
1,Merisa,876721086,COMPS
2,Priyanka,9847582901,IT
3,Siya,6374823918,EXTC
```

```
sqoop export --connect jdbc:mysql://quickstart:3306/college --password cloudera
--username root --table stud --export-dir /user/cloudera/student1;
```

```
23/11/05 21:45:08 INFO mapreduce.ExportJobBase: Transferred 825 bytes in 22.2501 seconds (37.0785 bytes/sec)
23/11/05 21:45:08 INFO mapreduce.ExportJobBase: Exported 3 records.
```

```
mysql> select * from stud;
```

StudentID	Name	Phone_No	Department
1	Merisa	876721086	COMPS
2	Priyanka	9847582901	IT
3	Siya	6374823918	EXTC