ASSIGNMENT 15.6

1)IMPORT MYSQL TABLE AS AVRO FILE IN HDFS

[training@localhost ~]\$ sqoop import --connect jdbc:mysql://localhost/moviel ens --username employee --password emp --table emp --m 1 --target-dir sam1 -- as-avrodatafile

17/04/25 21:46:25 WARN tool.BaseSqoopTool: Setting your password on the comm and-line is insecure. Consider using -P instead.

17/04/25 21:46:25 INFO manager.MySQLManager: Preparing to use a MySQL stream ing resultset.

OUTPUT

2) IMPORT MYSQL DATA INTO HDFS AS SEQUENCE FILE

training@localhost ~]\$ sqoop import --connect jdbc:mysql://localhost/moviel !ns --username employee --password emp --table emp --m 1 --target-dir sam2 as-sequencefile .7/04/25 21:53:16 WARN tool.BaseSgoopTool: Setting your password on the comm

.7/04/25 21:53:16 WARN tool.BaseSqoopTool: Setting your password on the comm ind-line is insecure. Consider using -P instead.

.7/04/25 21:53:16 INFO manager.MySQLManager: Preparing to use a MySQL stream .ng resultset.

.7/04/25 21:53:16 INFO tool.CodeGenTool: Beginning code generation

3)SQOOP EXPORT

CREATE A TABLE IN MYSQL

mysql> create table emp (id int, name varchar(12), salary int); Query OK, 0 rows affected (0.00 sec)

SQOOP EXPORT

[training@localhost ~]\$ sqoop export --connect jdbc:mysql://localhost/traini ng --username training --password training --table emp --m 1 --export-dir em ployee/par*

17/04/25 22:02:48 WARN tool.BaseSqoopTool: Setting your password on the comm and-line is insecure. Consider using -P instead.

OUTPUT

mysql> select * from emp;		
++		
id	name	salary
+	+	++
1	navya	20000
2	sriya	52000
3	adithi	56000
4	sriman	209000
5	keerthana	50000
6	shruthi	5000
++		
6 rows in set (0.00 sec)		
mysql>		

4. How can you control parallelism in running sqoop jobs. Control the number of mappers to run parallely to 5 while transfering data from Mysql to HDFS using sqoop.

4)CONTROLLING PARALLELISM

- It specifies number of map tasks that can run in parallel. Default is 4.
- To optimize performance, set the number of map tasks to a value lower than the maximum number of connections that the database supports.
- * Use the parameter --num-mappers if you want Sqoop to use a different number of mappers.
- * For example, to suggest 10 concurrent tasks, use the following Sqoop command:

```
sqoop import --connect
jdbc:mysql://localhost/sqoop --username
sqoop --password
sqoop --table
cities --num-mappers 5
```

- * Controlling the amount of parallelism that Sqoop will use to transfer data is the main way to control the load on your database.
- * Using more mappers will lead to a higher number of concurrent data transfer tasks, which can result in faster job completion.
- * However, it will also increase the load on the database as Sqoop will execute more concurrent queries.