APACHE SQOOP – IN-CLASS LAB 2

by

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Created Database and Table

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\sum_{i}
                                                   cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ mysql -u root -pcloudera
Welcome to the MySQL monitor. Commands end with ; or \q.
Your MySQL connection id is 49
Server version: 5.1.73 Source distribution
Copyright (c) 2000, 2013, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> use stocks db
Reading table information for completion of table and column names
You can turn off this feature to get a guicker startup with -A
Database changed
mysql> CREATE TABLE Stocks(
    -> id INT NOT NULL PRIMARY KEY AUTO INCREMENT,
    -> symbol VARCHAR(64) NOT NULL,
    -> name VARCHAR(64) NOT NULL,
    -> trade date DATE,
    -> close price DECIMAL(10,2),
    -> volume INT,
    -> updated time TIMESTAMP DEFAULT CURRENT TIMESTAMP);
Query OK, 0 rows affected (0.28 sec)
```

Inserted data into Table

```
cloudera@quickstart
Σ
 File Edit View Search Terminal Help
mysql> INSERT INTO Stocks
    -> (symbol, name, trade date, close price, volume)
    -> VALUES
    -> ('AAL', 'American Airlines', '2015-11-11', 44.39, 4416900);
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> INSERT INTO Stocks
    -> (symbol, name, trade date, close price, volume)
    -> VALUES
    -> ('AAPL', 'Apple', '2015-11-11', 116.1, 45217900);
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> INSERT INTO Stocks
    -> (symbol, name, trade date, close price, volume)
    -> VALUES
    -> ('AMGN', 'Amgen', '2015-11-11', 156.0, 1923900);
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO Stocks
    -> (symbol, name, trade date, close price, volume)
    -> VALUES
    -> ('GARS', 'Garrison', '2015-11-11', 13.57, 24800);
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> INSERT INTO Stocks
    -> (symbol, name, trade date, close price, volume)
    -> VALUES
    -> ('SBUX', 'Starbucks', '2015-11-11', 61.87, 4437300);
Query OK, 1 row affected (0.01 sec)
```

Selected all from Table

mysql> select * from Stocks;		
id symbol d_time	name	trade_date close_price volume update
1 AAL 3-28 06:42:13		44.39 4416900 2021-0
	Apple	2015-11-11 116.10 45217900 2021-0
3 AMGN	Amgen	2015-11-11 156.00 1923900 2021-0
3-28 06:42:13 4 GARS	Garrison	2015-11-11 13.57 24800 2021-0
3-28 06:42:28 5 SBUX	Starbucks	2015-11-11 61.87 4437300 2021-0
	American Airlines	42.40 4404500 2021-0
3-28 06:42:44 7 AAPL	Apple	2015-11-12 115.23 40217300 2021-0
	Mattel	2015-11-11 24.04 2920100 2021-0
3-28 06:42:44 9 INTC 3-28 06:42:59	Intel	2015-11-11 32.86 19864700 2021-0
++		-+
9 rows in set (0.00 sec)		

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Created and Listed Scoop job to do Incremental imports

SQOOP COMMAND:

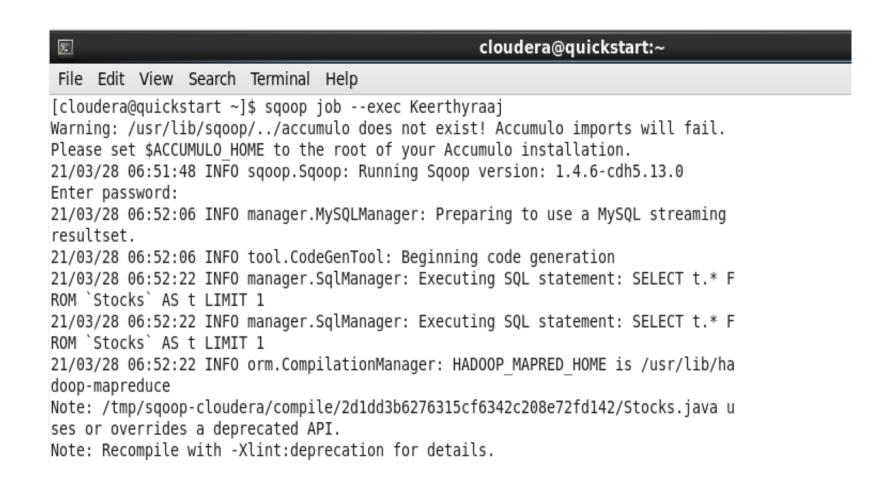
- 1) sqoop job --create Keerthyraaj -- import --connect jdbc:mysql://localhost/stocks_db --username root --password cloudera --table stocks --columns "symbol,name,volume" -m 7 --target-dir /BDAT1002/sqoop/keerthyraj --incremental append --check-column id
- 2) sqoop job --list

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[cloudera@quickstart ~]$ sqoop job --create Keerthyraaj -- import --connect jdbc :mysql://localhost/stocks_db --username root --password cloudera --table Stocks --columns "symbol,name,volume" -m 7 --target-dir /BDAT1002/sqoop/keerthyraj --in cremental append --check-column id Warning: /usr/lib/sqoop/../accumulo does not exist! Accumulo imports will fail. Please set $ACCUMULO_HOME to the root of your Accumulo installation. 21/03/28 06:51:12 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6-cdh5.13.0 21/03/28 06:51:16 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead. [cloudera@quickstart ~]$ sqoop job --list Warning: /usr/lib/sqoop/../accumulo does not exist! Accumulo imports will fail. Please set $ACCUMULO_HOME to the root of your Accumulo installation. 21/03/28 06:51:29 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6-cdh5.13.0 Available jobs: Keerthyraaj
```

Executed Sqoop Job

SQOOP COMMAND:

3) sqoop job --exec Keerthyraaj



Output

SQOOP COMMAND:

- 4) hadoop fs -ls /BDAT1002/sqoop/keerthyraj
- 5) hadoop fs -cat /BDAT1002/sqoop/keerthyraj/part-m-00000

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ted. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
21/03/28 07:08:22 INFO mapreduce.ImportJobBase: Transferred 201 bytes in 908.736
1 seconds (0.2212 bytes/sec)
21/03/28 07:08:22 INFO mapreduce.ImportJobBase: Retrieved 9 records.
21/03/28 07:08:24 INFO util.AppendUtils: Creating missing output directory - kee
rthvrai
21/03/28 07:08:24 INFO tool.ImportTool: Saving incremental import state to the m
etastore
21/03/28 07:08:28 INFO tool.ImportTool: Updated data for job: Keerthyraaj
[cloudera@quickstart ~]$ hadoop fs -ls /BigData/sqoop/keerthyraj
ls: `/BigData/sgoop/keerthyraj': No such file or directory
[cloudera@quickstart ~] $ hadoop fs -ls /BDAT1002/sqoop/keerthyraj
Found 7 items
-rw-r--r-- 1 cloudera cloudera
                                         50 2021-03-28 07:06 /BDAT1002/sqoop/kee
rthyrai/part-m-00000
-rw-r--r-- 1 cloudera cloudera
                                         19 2021-03-28 07:06 /BDAT1002/sqoop/kee
rthyraj/part-m-00001
-rw-r--r-- 1 cloudera cloudera
                                         20 2021-03-28 07:06 /BDAT1002/sqoop/kee
rthvrai/part-m-00002
-rw-r--r-- 1 cloudera cloudera
                                         23 2021-03-28 07:06 /BDAT1002/sqoop/kee
rthyraj/part-m-00003
-rw-r--r-- 1 cloudera cloudera
                                         30 2021-03-28 07:06 /BDAT1002/sqoop/kee
rthyraj/part-m-00004
-rw-r--r-- 1 cloudera cloudera
                                         20 2021-03-28 07:06 /BDAT1002/sqoop/kee
rthyraj/part-m-00005
-rw-r--r-- 1 cloudera cloudera
                                         39 2021-03-28 07:07 /BDAT1002/sqoop/kee
rthyraj/part-m-00006
[cloudera@quickstart ~]$ hadoop fs -cat /BDAT1002/sqoop/keerthyraj/part-m-00000
AAL, American Airlines, 4416900
AAPL, Apple, 45217900
[cloudera@quickstart ~]$
```