

# ACAD**GILD**

# Session 11: Sqoop Flume Assignment 2 Question

Perform incremental load in Hive

Read from MySQL Table and load it in Hive table.

Create hive table if it does not exist.

If it exists, perform the incremental load.

mysql> use db1;

Database changed

mysql> create table acad(emp\_id INT NOT NULL AUTO\_INCREMENT,emp\_name VARCHAR(100),emp\_sal INT,PRIMARY KEY(emp\_id));

Query OK, 0 rows affected (0.01 sec)

mysql> insert into acad values(5,"Sanam",50000);

Query OK, 1 row affected (0.00 sec)

mysql> insert into acad values(6, "Sonam", 54000);

Query OK, 1 row affected (0.00 sec)

mysql> GRANT ALL PRIVILEGES ON db1.\* TO 'acadgild'@'localhost';

Query OK, 0 rows affected (0.00 sec)

mysql> flush privileges;

Query OK, 0 rows affected (0.00 sec)

mysql> commit;

Query OK, 0 rows affected (0.00 sec)

mysql> insert into acad values(7,"Suraj",58000);

Query OK, 1 row affected (0.00 sec)

```
mysql> use db1;
Database changed
mysql> create table acad(emp id INT NOT NULL AUTO INCREMENT,emp name
VARCHAR(100), emp sal INT, PRIMARY KEY(emp id));
Query OK, 0 rows affected (0.01 sec)
mysql> insert into acad values(5, "Sanam", 50000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acad values(6, "Sonam", 54000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acad values(7, "Suraj", 58000);
Query OK, 1 row affected (0.00 sec)
mysql> select * from acad;
 emp_id | emp_name | emp_sal |
      5 | Sanam
                        50000 I
                        54000 I
       6 | Sonam
       7 | Suraj
                        58000 J
```

mysql> GRANT ALL PRIVILEGES ON db1.\* TO 'acadgild'@'localhost';

Query OK, 0 rows affected (0.00 sec)

```
mysql> flush privileges;

Query OK, 0 rows affected (0.00 sec)

mysql> commit;

Query OK, 0 rows affected (0.00 sec)
```

```
mysql> GRANT ALL PRIVILEGES ON db1.* TO 'acadgild'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)

mysql> commit;
Query OK, 0 rows affected (0.00 sec)
```

[acadgild@localhost ~]\$ sqoop import --connect jdbc:mysql://localhost/db1 --username root --password root --table acad --target-dir sqoop\_increment -m 1

```
acadgild@192.168.1.11's password:
Last login: Wed Oct 25 18:18:57 2017 from 192.168.1.9
[acadgild@localhost ~]$ sqoop import --connect jdbc:mysql://localhost/db1 --user
name root --password root --table acad --target-dir sqoop_increment -m 1
Warning: /usr/local/sqoop/../hcatalog does not exist! HCatalog jobs will fail.
Please set $HCAT HOME to the root of your HCatalog installation.
Warning: /usr/local/sqoop/../accumulo does not exist! Accumulo imports will fail
Please set $ACCUMULO HOME to the root of your Accumulo installation.
Warning: /usr/local/sqoop/../zookeeper does not exist! Accumulo imports will fai
Please set $ZOOKEEPER HOME to the root of your Zookeeper installation.
2017-10-25 18:33:07,265 INFO [main] sqoop.Sqoop: Running Sqoop version: 1.4.5 2017-10-25 18:33:07,279 WARN [main] tool.BaseSqoopTool: Setting your password o
n the command-line is insecure. Consider using -P instead.
2017-10-25 18:33:07,482 INFO [main] manager.MySQLManager: Preparing to use a My
SQL streaming resultset.
2017-10-25 18:33:07,482 INFO [main] tool.CodeGenTool: Beginning code generation
2017-10-25 18:33:07,743 INFO [main] manager.SqlManager: Executing SQL statement: SELECT t.* FROM `acad` AS t LIMIT 1
2017-10-25 18:33:07,768 INFO [main] manager.SqlManager: Executing SQL statement
: SELECT t.* FROM `acad` AS t LIMIT 1
2017-10-25 18:33:07,777 INFO [main] orm.CompilationManager: HADOOP_MAPRED_HOME
is /usr/local/hadoop-2.6.0
Note: /tmp/sqoop-acadgild/compile/4721f956449ac263d8a66c1d4888aabf/acad.java use
s or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
2017-10-25 18:33:09,849 INFO [main] orm.CompilationManager: Writing jar file: /
tmp/sqoop-acadgild/compile/4721f956449ac263d8a66c1d4888aabf/acad.jar
2017-10-25 18:33:09,868 WARN [main] manager.MySQLManager: It looks like you are
importing from mysql.
2017-10-25 18:33:09,869 WARN [main] manager.MySQLManager: This transfer can be
faster! Use the --direct
2017-10-25 18:33:09,869 WARN [main] manager.MySQLManager: option to exercise a
MySQL-specific fast path.
2017-10-25 18:33:09,869 INFO [main] manager.MySQLManager: Setting zero DATETIME
```

```
+-----+

| 5 | Sanam | 50000 |

| 6 | Sonam | 54000 |

| 7 | Suraj | 58000 |

| 8 | Surya | 49000 |

| 9 | Anand | 79000 |

+-----+

5 rows in set (0.00 sec)

mysql> SELECT MAX(`emp_id`) FROM acad;

+-----+

| MAX(`emp_id`) |

+------+
```

+----+

1 row in set (0.00 sec)

```
mysql> insert into acad values(8, "Surya", 49000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acad values(9,"Anand",79000);
Query OK, 1 row affected (0.00 sec)
mysql> select * from acad;
| emp id | emp name | emp sal |
      5 | Sanam | 50000 |
      6 | Sonam | 54000 |
      7 | Suraj | 58000 |
      8 | Surya | 49000 |
  9 | Anand | 79000 |
-----+
5 rows in set (0.00 sec)
mysql> SELECT MAX(`emp id`) FROM acad;
+----+
| MAX(`emp id`) |
             9 1
1 row in set (0.00 sec)
```

[acadgild@localhost ~]\$ sqoop import --connect jdbc:mysql://localhost/db1 --username root --password root --table acad --target-dir sqoop\_increment --incremental append --check-column emp\_id --last-value 7 -m 1

```
[acadgild@localhost ~] $ sqoop import --connect jdbc:mysql://localhost/db1 --username root --password root --table acad --target-dir sqo op increment --incremental append --check-column emp id --last-value 7 -m 1
Warning: /usr/local/sqoop/../hacatalog does not exist! HCatalog jobs will fail.
Please set $HCAT HOME to the root of your HCatalog installation.
Warning: /usr/local/sqoop/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO HOME to the root of your Accumulo installation.
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[acadgild@localhost ~]\$ hadoop fs -cat /user/acadgild/sqoop\_increment/part-m-00000

5,Sanam,50000

6,Sonam,54000

7,Suraj,58000

8,Surya,49000

9,Anand,79000