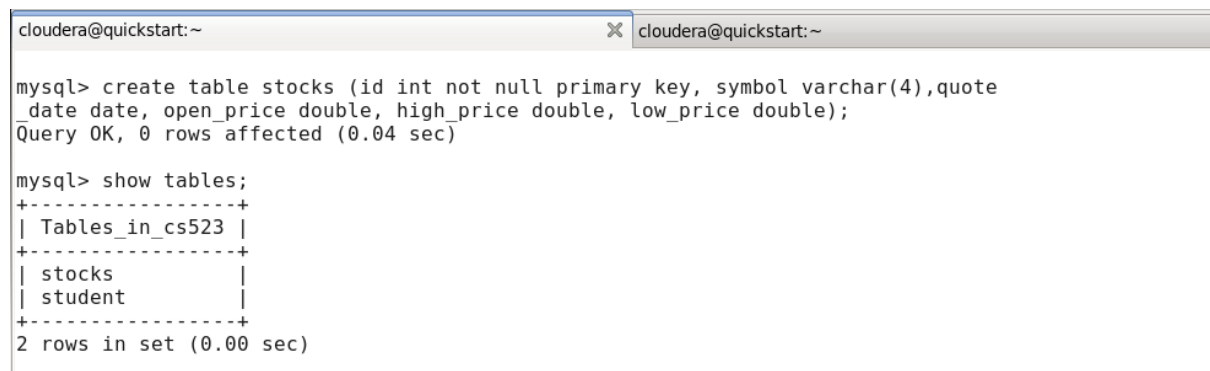# Lab 7 - sqoop Assignment

1. Query to create table "stocks" in MySql
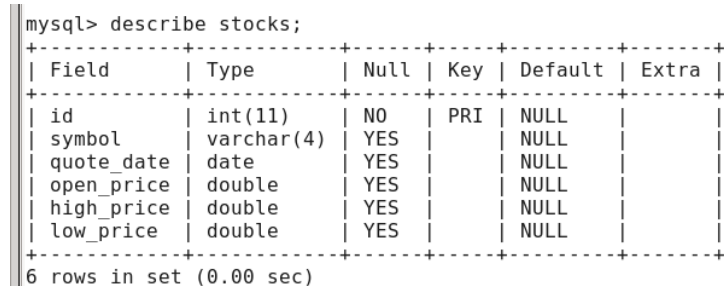
create table stocks (id int not null primary key, symbol varchar(4),quote_date date, open_price double, high_price double, low_price double);

mysql> show tables;
```
+-----------------------+
| Tables_in_cs523 |
+-----------------------+
| stocks                |
| student               |
+-----------------------+
```

Screenshot :

mysql> describe stocks;
```
+----------------+----------------+-------+-----+---------+----------+
| Field          | Type           | Null  | Key | Default | Extra    |
+----------------+----------------+-------+-----+---------+----------+
| id             | int(11)        | NO    | PRI | NULL    |          |
| symbol         | varchar(4)     | YES   |     | NULL    |          |
| quote_date     | date           | YES   |     | NULL    |          |
| open_price     | double         | YES   |     | NULL    |          |
| high_price     | double         | YES   |     | NULL    |          |
| low_price      | double         | YES   |     | NULL    |          |
+----------------+----------------+-------+------+-----------+------+
```
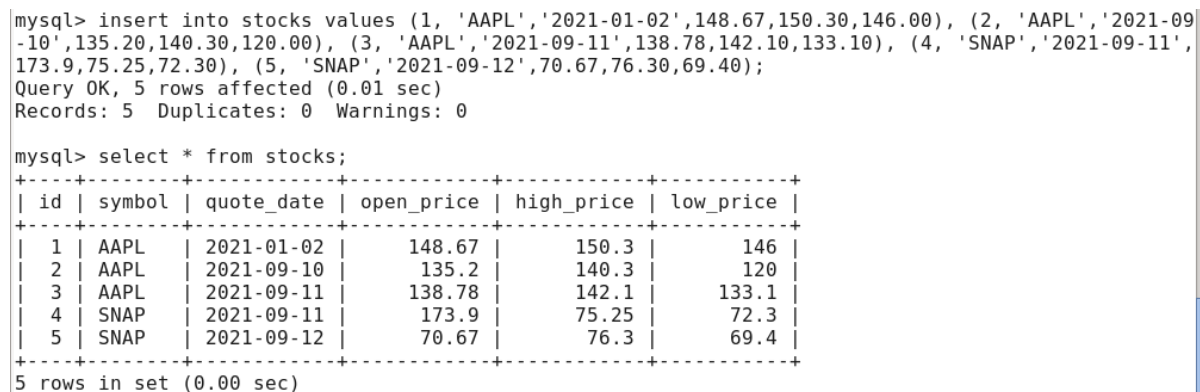
Screenshot:

Query to insert data in stocks table

mysql> insert into stocks values (1, 'AAPL','2021-01-02',148.67,150.30,146.00), (2, 'AAPL','2021-09-10',135.20,140.30,120.00), (3, 'AAPL','2021-09-11',138.78,142.10,133.10), (4, 'SNAP','2021-09-11',173.9,75.25,72.30), (5, 'SNAP','2021-09-12',70.67,76.30,69.40);

mysql> select * from stocks;

id	symbol	quote_date	open_price	high_price	low_price
1	AAPL	2021-01-02	148.67	150.3	146
2	AAPL	2021-09-10	135.2	140.3	120
3	AAPL	2021-09-11	138.78	142.1	133.1
4	SNAP	2021-09-11	173.9	75.25	72.3
5	SNAP	2021-09-12	70.67	76.3	69.4

Screenshot:

```
mysql> insert into stocks values (1, 'AAPL','2021-01-02',148.67,150.30,146.00), (2, 'AAPL','2021-09
-10',135.20,140.30,120.00), (3, 'AAPL','2021-09-11',138.78,142.10,133.10), (4, 'SNAP','2021-09-11',
173.9,75.25,72.30), (5, 'SNAP','2021-09-12',70.67,76.30,69.40);
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> select * from stocks;
+----+--------+------------+------------+------------+-----------+
| id | symbol | quote_date | open_price | high_price | low_price |
+----+--------+------------+------------+------------+-----------+
|  1 | AAPL   | 2021-01-02 |     148.67 |      150.3 |       146 |
|  2 | AAPL   | 2021-09-10 |      135.2 |      140.3 |       120 |
|  3 | AAPL   | 2021-09-11 |     138.78 |      142.1 |     133.1 |
|  4 | SNAP   | 2021-09-11 |      173.9 |      75.25 |      72.3 |
|  5 | SNAP   | 2021-09-12 |      70.67 |       76.3 |      69.4 |
+----+--------+------------+------------+------------+-----------+
5 rows in set (0.00 sec)
```

a) Import data of "stocks" table in "tab" separated format in HDFS

command to run >>

sqoop import --connect jdbc:mysql://quickstart.cloudera/cs523 --username root -P --table stocks --target-dir=/user/cloudera/sqoopImportOutput --columns "id,symbol,open_price" --fields-terminated-by "\t" -m 1

b) Screenshot of the HDFS browser

📄 **File Browser**

| Search for file name | ⚙ Actions ▾ | ✖ Move to trash | ▾ | ⊕ Upload ▾ |

🏠 Home / user / cloudera / **sqoopImportOutput** 🗑 Trash

☐		Name ▲	Size	User	Group	Permissions	Date
☐	📁	⤴		cloudera	cloudera	drwxr-xr-x	September 12, 2021 10:23 PM
☐	📁	.		cloudera	cloudera	drwxr-xr-x	September 12, 2021 10:24 PM
☐	📄	_SUCCESS	0 bytes	cloudera	cloudera	-rw-r--r--	September 12, 2021 10:24 PM
☐	📄	part-m-00000	67 bytes	cloudera	cloudera	-rw-r--r--	September 12, 2021 10:24 PM

c) Contents of the imported file including the screenshot.

Content of the part-m-00000 file

```
1       AAPL  148.67
2       AAPL  135.2
3       AAPL  138.78
4       SNAP 173.9
5       SNAP 70.67
```

Screenshot

/ user / cloudera / sqoopImportOutput /
part-m-00000

```
1       AAPL    148.67
2       AAPL    135.2
3       AAPL    138.78
4       SNAP    173.9
5       SNAP    70.67
```