

Name:Rishabh Raghuvanshi

Email: [rishooraghuvanshi@gmail.com](mailto:rishooraghuvanshi@gmail.com)

Linkedin: <https://www.linkedin.com/in/rishabh-raghuvanshi-3b4a67194/>

No tables initially.

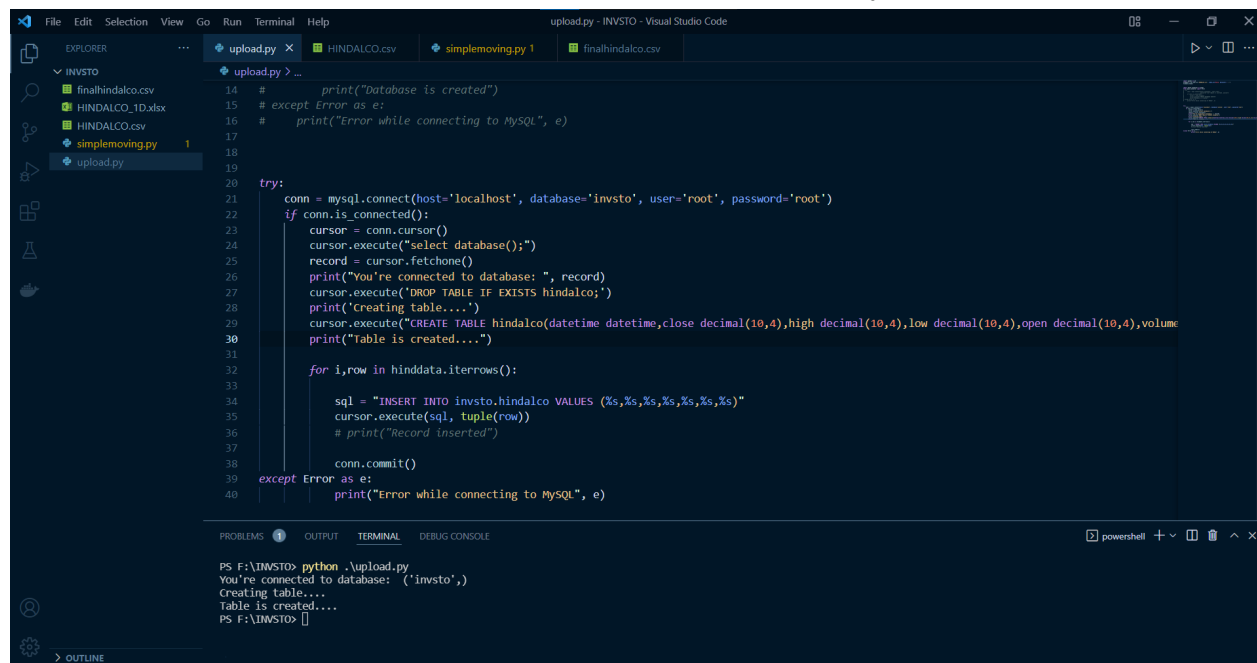
```
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use invsto;
Database changed
mysql> show tables
-> ;
Empty set (0.00 sec)

mysql>
```

Ran this code to upload the data of HINDALCO\_1D.xlsx into the mysql database.



```
File Edit Selection View Go Run Terminal Help
upload.py - INVSTO - Visual Studio Code

EXPLORER
INVSTO
  finalhindalco.csv
  HINDALCO_1D.xlsx
  HINDALCO.csv
  simplemoving.py 1
  upload.py

14 # print("Database is created")
15 # except Error as e:
16 # print("Error while connecting to MySQL", e)
17
18
19
20
21 try:
22     conn = mysql.connect(host='localhost', database='invsto', user='root', password='root')
23     if conn.is_connected():
24         cursor = conn.cursor()
25         cursor.execute("select database();")
26         record = cursor.fetchone()
27         print("You're connected to database: ", record)
28         cursor.execute('DROP TABLE IF EXISTS hindalco;')
29         print('creating table....')
30         cursor.execute("CREATE TABLE hindalco(datetime datetime,close decimal(10,4),high decimal(10,4),low decimal(10,4),open decimal(10,4),volume
31         print("Table is created....")
32
33         for i,row in hinddata.iterrows():
34             sql = "INSERT INTO invsto.hindalco VALUES (%s,%s,%s,%s,%s,%s)"
35             cursor.execute(sql, tuple(row))
36             # print("Record inserted")
37
38             conn.commit()
39 except Error as e:
40     print("Error while connecting to MySQL", e)

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
PS F:\INVSTO> python .\upload.py
You're connected to database: ('invsto',)
Creating table....
Table is created....
PS F:\INVSTO>
```

Name:Rishabh Raghuvanshi

Email: [rishooraghuvanshi@gmail.com](mailto:rishooraghuvanshi@gmail.com)

Linkedin: <https://www.linkedin.com/in/rishabh-raghuvanshi-3b4a67194/>

```
mysql> show tables
-> ;
+-----+
| Tables_in_invsto |
+-----+
| hindalco          |
+-----+
1 row in set (0.01 sec)

mysql> desc hindalco;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| datetime   | datetime      | YES  |     | NULL    |       |
| close      | decimal(10,4) | YES  |     | NULL    |       |
| high       | decimal(10,4) | YES  |     | NULL    |       |
| low        | decimal(10,4) | YES  |     | NULL    |       |
| open       | decimal(10,4) | YES  |     | NULL    |       |
| volume     | int           | YES  |     | NULL    |       |
| instrument | varchar(255)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.01 sec)

mysql> select * from hindalco limit 5;
+-----+-----+-----+-----+-----+-----+-----+
| datetime           | close   | high   | low    | open   | volume | instrument |
+-----+-----+-----+-----+-----+-----+-----+
| 2014-01-24 00:00:00 | 114.0000 | 115.3500 | 113.0000 | 113.1500 | 5737135 | HINDALCO   |
| 2014-01-27 00:00:00 | 111.1000 | 112.7000 | 109.3000 | 112.0000 | 8724577 | HINDALCO   |
| 2014-01-28 00:00:00 | 113.8000 | 115.0000 | 109.7500 | 110.0000 | 4513345 | HINDALCO   |
| 2014-01-29 00:00:00 | 111.7500 | 114.7500 | 111.1500 | 114.5000 | 4713458 | HINDALCO   |
| 2014-01-30 00:00:00 | 108.1000 | 110.7000 | 107.6000 | 110.2000 | 5077231 | HINDALCO   |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

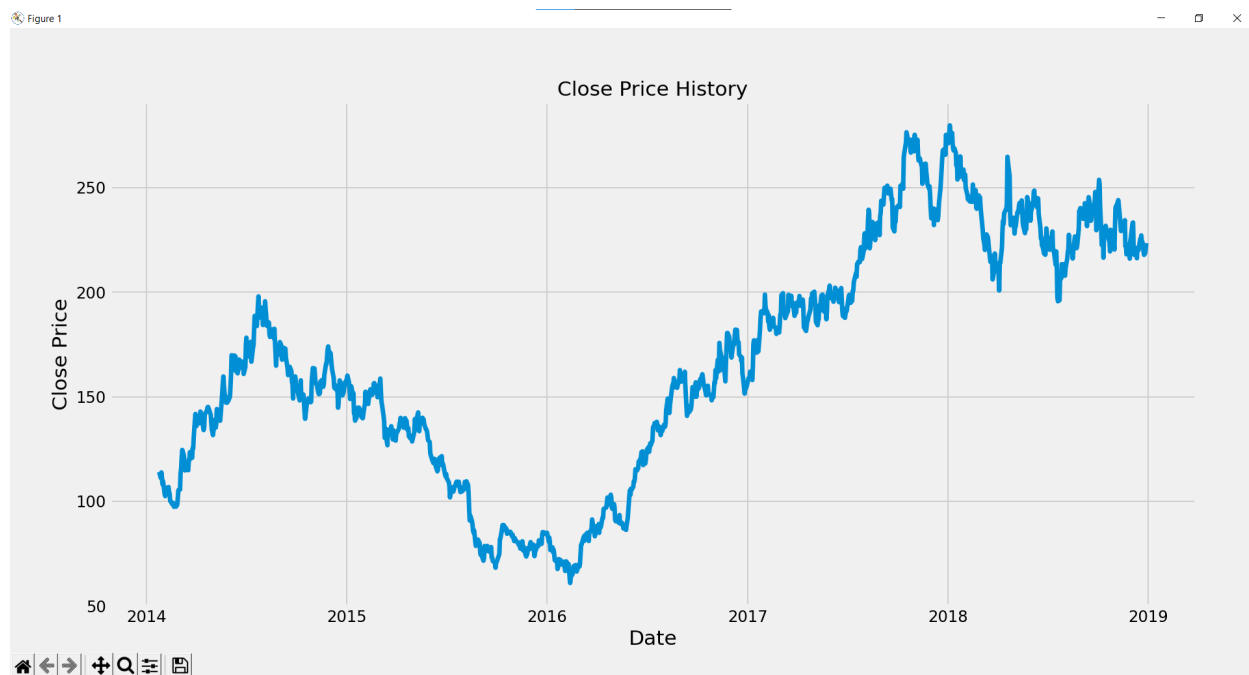
mysql>
```

Plot of Close price history vs Date

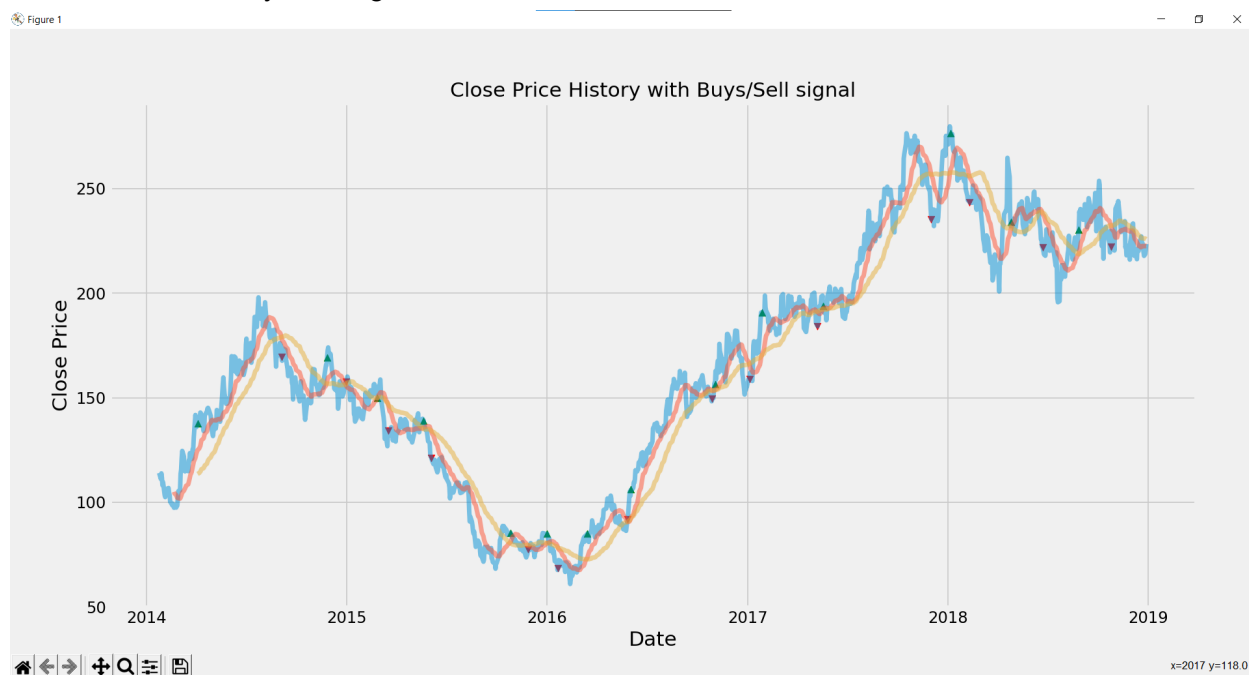
Name: Rishabh Raghuvarshi

Email: [rishooraghuvarshi@gmail.com](mailto:rishooraghuvarshi@gmail.com)

Linkedin: <https://www.linkedin.com/in/rishabh-raghuvarshi-3b4a67194/>



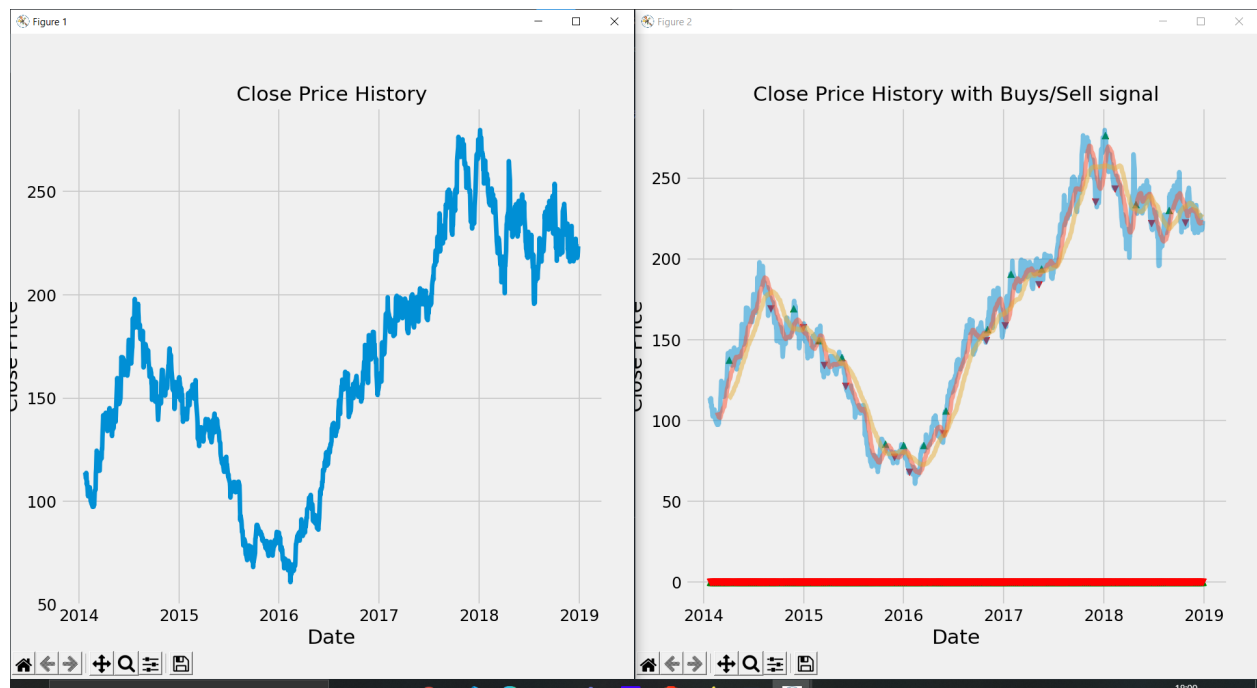
### Plot of SMA with Buy/Sell Signal



Name: Rishabh Raghuvanshi

Email: [rishooraghuvanshi@gmail.com](mailto:rishooraghuvanshi@gmail.com)

Linkedin: <https://www.linkedin.com/in/rishabh-raghuvanshi-3b4a67194/>



Storing the final form dataframe used in SMA in mysql

```
File Edit Selection View Go Run Terminal Help
simplemoving.py - INVSTO - Visual Studio Code
EXPLORER
  INVSTO
    finalhindalco.csv
    HINDALCO_1D.xlsx
    HINDALCO.csv
    simplemoving.py
    upload.py
  simplemoving.py
    simplemoving.py
      # Storing back into MySQL into a new table
      import mysql.connector as mysql
      from mysql.connector import Error
      try:
        conn = mysql.connect(host='localhost', database='invsto', user='root', password='root')
        if conn.is_connected():
          cursor = conn.cursor()
          cursor.execute("select database();")
          record = cursor.fetchone()
          cursor.execute("CREATE TABLE hindSMA(datetime datetime,close decimal(10,4),high decimal(10,4),low decimal(10,4),open decimal(10,4),volume")
          print("You're connected to database: ", record)
          for i,row in df.iterrows():
            # print("Record inserted",tuple(row))
            sql = "INSERT INTO invsto.hindSMA VALUES (%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)"
            cursor.execute(sql, tuple(row))
            conn.commit()
            print("Query executed")
          except Error as e:
            print("Error while connecting to MySQL", e)
      PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
      You're connected to database: ('invsto',)
      Creating table...
      Table is created...
      PS F:\INVSTO> python .\simplemoving.py
      [0 1]
      You're connected to database: ('invsto',)
      Query executed
      PS F:\INVSTO>
```

Linkedin: <https://www.linkedin.com/in/rishabh-raghuvanshi-3b4a67194/>

```
MySQL 8.0 Command Line Client
```

```
5 rows in set (0.00 sec)
```

```
mysql> show tables;
```

Tables_in_invsto
hindalco
hindsma

```
2 rows in set (0.02 sec)
```

```
mysql> desc hindsma;
```

Field	Type	Null	Key	Default	Extra
datetime	datetime	YES		NULL	
close	decimal(10,4)	YES		NULL	
high	decimal(10,4)	YES		NULL	
low	decimal(10,4)	YES		NULL	
open	decimal(10,4)	YES		NULL	
volume	int	YES		NULL	
instrument	varchar(255)	YES		NULL	
SMA20	decimal(14,7)	YES		NULL	
SMA50	decimal(14,7)	YES		NULL	
signals	int	YES		NULL	
position	int	YES		NULL	
buy	decimal(14,7)	YES		NULL	
sell	decimal(14,7)	YES		NULL	

```
13 rows in set (0.01 sec)
```

```
mysql> select * from hindsma limit 5;
```

datetime	close	high	low	open	volume	instrument	SMA20	SMA50	signals	position	buy	sell
2014-01-24 00:00:00	114.0000	115.3500	113.0000	113.1500	5737135	HINDALCO	0.0000000	0.0000000	0	0	0.0000000	0.0000000
2014-01-27 00:00:00	111.1000	112.7000	109.3000	112.0000	8724577	HINDALCO	0.0000000	0.0000000	0	0	0.0000000	0.0000000
2014-01-28 00:00:00	113.8000	115.0000	109.7500	110.0000	4513345	HINDALCO	0.0000000	0.0000000	0	0	0.0000000	0.0000000
2014-01-29 00:00:00	111.7500	114.7500	111.1500	114.5000	4713458	HINDALCO	0.0000000	0.0000000	0	0	0.0000000	0.0000000
2014-01-30 00:00:00	108.1000	110.7000	107.6000	110.2000	5077231	HINDALCO	0.0000000	0.0000000	0	0	0.0000000	0.0000000

```
5 rows in set (0.00 sec)
```

```
mysql>
```