Importing MySQL in python

In [ ]:

```python
import MySQLdb
import pandas as pd
```

In [ ]:

```python
db = MySQLdb.connect(host="localhost",    # your host, usually localhost
                     user="root",         # your username
                     passwd="sms",        # your mysql password
                     db="test")           # name of the data base
```

In [ ]:

```python
cur = db.cursor()
```

In [ ]:

```python
#Creating a table
numrow=cur.execute('CREATE TABLE STUDENTS\
        (RollNo INT,\
         Name VARCHAR(20),\
         Marks INT);')
```

In [ ]:

```python
#Inserting data into students table

cur.execute("INSERT INTO STUDENTS VALUES (1, 'Aashna', 89);")
cur.execute("INSERT INTO STUDENTS VALUES (2, 'Abhinav', 85);")
cur.execute("INSERT INTO STUDENTS VALUES (3, 'Ayesha', 78);")
```

In [ ]:

```python
db.commit()
```

In [ ]:

```python
cur.execute("INSERT INTO STUDENTS VALUES (4,'Naveen',100);")
```

In [ ]:

```python
db.commit()
```

In [ ]:
```
numrow=cur.execute("SELECT * FROM Students")
```

In [ ]:
```
cur.fetchall()
```

In [ ]:
```
numrow=cur.execute("SELECT * FROM Students where marks>80")
```

In [ ]:
```
cur.fetchall()
```

In [ ]:
```
numrow=cur.execute("SELECT * FROM Students where Name='Ayesha'")
```

In [ ]:
```
cur.fetchall()
```

Inserting data from a CSV file to a SQL Table

In [ ]:
```
data=[]
```

In [ ]:
```
import csv

with open('E:\workshop\Student.csv', 'r') as csvFile:
    reader = csv.reader(csvFile)
    for row in reader:
        data.append(row)
```

In [ ]:
```
data
```

In [ ]:
```
for row in data:
    sql = "insert into Students VALUES("+row[0]+",'"+row[1]+"',"+row[2]+")"
    numrow=cur.execute(sql)
```

In [ ]:

```python
db.commit()
```

In [ ]:

```python
numrow=cur.execute("SELECT * FROM Students")
```

In [ ]:

```python
Student=cur.fetchall()
```

In [ ]:

```python
Student
```

Reading SQL table into a Dataframe

In [ ]:

```python
df = pd.read_sql('SELECT * FROM students', con=db)
```

In [ ]:

```python
df
```

In [ ]:

```python
db.close()
```

In [ ]: