In [2]: ▶ pip install mysql-connector-python

Requirement already satisfied: mysql-connector-python in c:\users\v3it\an aconda3\lib\site-packages (8.0.32)
Requirement already satisfied: protobuf<=3.20.3,>=3.11.0 in c:\users\v3it\anaconda3\lib\site-packages (from mysql-connector-python) (3.19.1)
Note: you may need to restart the kernel to use updated packages.

```
In [3]: #Importing the liabraries

import mysql.connector
from mysql.connector import Error
import pandas as pd
```

```
In [4]:
        | def create_server_connection(host_name,user_name,user_password):
                global connection
                connection = None
                try:
                    connection = mysql.connector.connect(
                    host = host name,
                    user = user name,
                        password = user_password
                    print("MySQL connection Successfull")
                except Error as er:
                    print(f"Error: {er}")
                return connection
            ps = "12345" #exact password of server
            db = "Internship"
            create_server_connection("localhost", "root", ps) # root is username
```

MySQL connection Successfull

Out[4]: <mysql.connector.connection cext.CMySQLConnection at 0x1d3aa1ae070>

Error: 1007 (HY000): Can't create database 'internship'; database exists

MySQL Database Connection Successfully Error: 1050 (42S01): Table 'orders' already exists

```
In [14]:  # insert data

data_orders = """
  insert into orders values
  (101, 'Steve', 'Laptop', '2018-06-12', 2, 800, '6293730802'),
  (102, 'Jos', 'Books', '2019-02-10', 10, 12, '8367489124'),
  (103, 'Stacy', 'Trousers', '2019-12-25', 5, 50, '8976123645'),
  (104, 'Nancy', 'T-Shirts', '2018-07-14', 7, 30, '7368145099'),
  (105, 'Maria', 'Headphones', '2019-05-30', 6, 48, '8865316698'),
  (106, 'Danny', 'Smart TV', '2018-08-20', 10, 300, '7720130449');
  """
  connection = create_db_connection("localhost", "root",ps, db)
  execute_query(connection,data_orders)
```

MySQL Database Connection Successfully Error: 1062 (23000): Duplicate entry '101' for key 'orders.PRIMARY'

```
In [17]:  def read_query(connection,query):
        cursor = connection.cursor()
        results = None

        try:
            cursor.execute(query)
            result = cursor.fetchall()
            return result

        except Error as er:
            print(f"Error: {er}")
```

```
MySQL Database Connection Successfully
(101, 'Steve', 'Laptop', datetime.date(2018, 6, 12), 2, 800.0, '629373080
2')
(102, 'Joe', 'Books', datetime.date(2019, 2, 10), 10, 12.0, '8367489124')
(104, 'Nancy', 'T-Shirts', datetime.date(2018, 7, 14), 7, 30.0, '73681450
99')
(105, 'Maria', 'Headphones', datetime.date(2019, 5, 30), 6, 48.0, '886531
6698')
(106, 'Danny', 'Smart TV', datetime.date(2018, 8, 20), 10, 300.0, '772013
0449')
```

	order_id	customer_name	product_name	date_ordered	quantity	unit_price	phone_numb
0	101	Steve	Laptop	2018-06-12	2	800.0	62937308
1	102	Jos	Books	2019-02-10	10	12.0	83674891
2	103	Stacy	Trousers	2019-12-25	5	50.0	89761236
3	104	Nancy	T-Shirts	2018-07-14	7	30.0	73681450
4	105	Maria	Headphones	2019-05-30	6	48.0	88653166
5	106	Danny	Smart TV	2018-08-20	10	300.0	77201304

MySQL Database Connection Successfully
(2018,)
(2019,)

Query Tasks -

1- delete a row 2 - update a record 3 - fetch some condition(unit price is greater or smaller) 4 - query with order by 5 - select * from orders;

```
▶ | Query1 = """
In [19]:
             delete from orders
             where order id = 102;
             connection = create db connection("localhost", "root", ps, db)
             result = execute_query(connection,Query1)
             for result in results:
                 print(result)
             MySQL Database Connection Successfully
             Query was Successful
             (101, 'Steve', 'Laptop', datetime.date(2018, 6, 12), 2, 800.0, '629373080
             2')
             (102, 'Joe', 'Books', datetime.date(2019, 2, 10), 10, 12.0, '8367489124')
             (104, 'Nancy', 'T-Shirts', datetime.date(2018, 7, 14), 7, 30.0, '73681450
             99')
             (105, 'Maria', 'Headphones', datetime.date(2019, 5, 30), 6, 48.0, '886531
             6698')
             (106, 'Danny', 'Smart TV', datetime.date(2018, 8, 20), 10, 300.0, '772013
             0449')
In [23]:
         ▶ Query2 = """
             UPDATE orders
             SET customer name = 'Joe'
             where order id = 102;
             connection = create db connection("localhost", "root", ps, db)
             results = execute_query(connection,Query2)
             for result in results:
                 print(result)
             MySQL Database Connection Successfully
             Query was Successful
          ▶ | Query3 = """
In [25]:
             SELECT * from orders where unit price > 50;
             Select * from orders;
             connection = create db connection("localhost", "root", ps, db)
             results = read_query(connection,Query3)
             for result in results:
                 print(result)
             MySQL Database Connection Successfully
             (101, 'Steve', 'Laptop', datetime.date(2018, 6, 12), 2, 800.0, '629373080
             2')
             (106, 'Danny', 'Smart TV', datetime.date(2018, 8, 20), 10, 300.0, '772013
             0449')
```

```
Query4 = """
In [122]:
              SELECT * FROM orders ORDER BY customer_name = "DESC"
              connection = create db connection("localhost", "root", ps, db)
              results = read query(connection, Query4)
              for result in results:
                  print(result)
              MySQL Database Connection Successfully
              (101, 'Steve', 'Laptop', datetime.date(2018, 6, 12), 2, 800.0, '629373080
              2')
              (102, 'Joe', 'Books', datetime.date(2019, 2, 10), 10, 12.0, '8367489124')
              (104, 'Nancy', 'T-Shirts', datetime.date(2018, 7, 14), 7, 30.0, '73681450
              99')
              (105, 'Maria', 'Headphones', datetime.date(2019, 5, 30), 6, 48.0, '886531
              6698')
              (106, 'Danny', 'Smart TV', datetime.date(2018, 8, 20), 10, 300.0, '772013
              0449')
          N Query5 = """
 In [28]:
              Select * from orders;
              connection = create_db_connection("localhost", "root", ps, db)
              results = read query(connection, Query5)
              for result in results:
                  print(result)
              MySQL Database Connection Successfully
              (101, 'Steve', 'Laptop', datetime.date(2018, 6, 12), 2, 800.0, '629373080
              2')
              (104, 'Nancy', 'T-Shirts', datetime.date(2018, 7, 14), 7, 30.0, '73681450
              99')
              (105, 'Maria', 'Headphones', datetime.date(2019, 5, 30), 6, 48.0, '886531
              6698')
              (106, 'Danny', 'Smart TV', datetime.date(2018, 8, 20), 10, 300.0, '772013
              0449')
  In [ ]:
```