In [5]:

```
import mysql.connector

# Connect to the MySQL database
try:
    connection = mysql.connector.connect(
        host='localhost',
        user='root',
        password='1234567',
        database='olist_store'
    )

    if connection.is_connected():
        print('Connected to MySQL database')

        # Perform database operations here

except mysql.connector.Error as e:
    print('Error connecting to MySQL database:', e)

finally:
    # Close the database connection
    if 'connection' in locals() or 'connection' in globals():
        connection.close()
        print('MySQL database connection closed')
```

```
Connected to MySQL database
MySQL database connection closed
```

In [6]:

```
# Connect to the MySQL database
cnx = mysql.connector.connect(
    host='localhost',
    user='root',
    password='1234567',
    database='classicmodels'
)

try:
    if cnx.is_connected():
        print('Connected to MySQL database')

        # Create a cursor object for executing queries
        cursor = cnx.cursor()

        # Execute a SELECT query
        query = "SELECT * FROM customers"
        cursor.execute(query)

        # Fetch all the rows returned by the query
        rows = cursor.fetchall()

        # Process the fetched rows
        for row in rows:
            # Access the column values by index or column name
            column1 = row[0]
            column2 = row[1]


        # Close the cursor and the connection
        cursor.close()
        print('Cursor closed')

except mysql.connector.Error as e:
    print('Error accessing MySQL database:', e)

finally:
    # Close the database connection
    if 'cnx' in locals() or 'cnx' in globals():
        cnx.close()
        print('MySQL database connection closed')
```

```
Connected to MySQL database
Cursor closed
MySQL database connection closed
```

In [7]:

```
print(rows) # print fetched customer id,customer name and etc
```

```
[(103, 'Atelier graphique', 'Schmitt', 'Carine ', '40.32.2555', '54, rue
Royale', None, 'Nantes', None, '44000', 'France', 1370, Decimal('21000.0
0')), (112, 'Signal Gift Stores', 'King', 'Jean', '7025551838', '8489 St
rong St.', None, 'Las Vegas', 'NV', '83030', 'USA', 1166, Decimal('7180
0.00')), (114, 'Australian Collectors, Co.', 'Ferguson', 'Peter', '03 95
20 4555', '636 St Kilda Road', 'Level 3', 'Melbourne', 'Victoria', '300
4', 'Australia', 1611, Decimal('117300.00')), (119, 'La Rochelle Gifts',
'Labrune', 'Janine ', '40.67.8555', '67, rue des Cinquante Otages', Non
e, 'Nantes', None, '44000', 'France', 1370, Decimal('118200.00')), (121,
'Baane Mini Imports', 'Bergulfsen', 'Jonas ', '07-98 9555', 'Erling Skak
kes gate 78', None, 'Stavern', None, '4110', 'Norway', 1504, Decimal('81
700.00')), (124, 'Mini Gifts Distributors Ltd.', 'Nelson', 'Susan', '415
5551450', '5677 Strong St.', None, 'San Rafael', 'CA', '97562', 'USA', 1
165, Decimal('210500.00')), (125, 'Havel & Zbyszek Co', 'Piestrzeniewic
z', 'Zbyszek ', '(26) 642-7555', 'ul. Filtrowa 68', None, 'Warszawa', No
ne, '01-012', 'Poland', None, Decimal('0.00')), (128, 'Blauer See Auto,
Co.', 'Keitel', 'Roland', '+49 69 66 90 2555', 'Lyonerstr. 34', None, 'F
rankfurt', None, '60528', 'Germany', 1504, Decimal('59700.00')), (129,
'Mini Wheels Co.', 'Murphy', 'Julie', '6505555787', '5557 North Pendale
```

In [13]:

```
# Establishing a connection to the MySQL database
connection = mysql.connector.connect(
    host="localhost",
    user="root",
    password="1234567",
    database="classicmodels"
)

# Creating a cursor
cursor = connection.cursor()

# Updating a record
query = "UPDATE customers SET customerName = %s WHERE customerNumber = %s"
values = ("Ibrahim alam", 112)
cursor.execute(query, values)

# Committing the transaction
connection.commit()

# Closing the cursor and database connection
cursor.close()
connection.close()
```

In [17]:

```
# Establishing a connection to the MySQL database
connection = mysql.connector.connect(
    host="localhost",
    user="root",
    password="1234567",
    database="irfanadb"
)

# Creating a cursor
cursor = connection.cursor()

# Creating the table
query = """
    CREATE TABLE customers (
        id INT AUTO_INCREMENT PRIMARY KEY,
        name VARCHAR(50),
        email VARCHAR(100)
    )
"""
cursor.execute(query)

# Committing the transaction
connection.commit()

# Closing the cursor and database connection
cursor.close()
connection.close()
```

In [19]:

```
# Establishing a connection to the MySQL database
connection = mysql.connector.connect(
    host="localhost",
    user="root",
    password="1234567",
    database="irfanadb"
)

# Creating a cursor object from the connection
cursor = connection.cursor()

# Bulk insertion using executemany
query = "INSERT INTO customers (id, name, email) VALUES (%s, %s, %s)"
users_data = [
    ("01", "Fatima Naqi", "fatima@example.com"),
    ("02", "Rabiya Rahim", "rabiya@example.com"),
    ("03", "Zain Hassan", "zain@example.com"),
]
cursor.executemany(query, users_data)

# Committing the transaction
connection.commit()

# Closing the cursor and database connection
cursor.close()
connection.close()
```

In [ ]:

```

```