**Step 1**: Start importing relevant libraries like Polygon to get data from Polygon Library RestClient to get real-time data. Import database libraries SQLite and PyMongo to manipulate the data and insert it into the Database.

**Step 2**: Initiate SQLite and Mongo DB database connection and creation

**Step 3:** Through RestClient functionality initialize the Object/Instance

client\_polygon = RESTClient('beBybSi8daPgsTp5yx5cHtHpYcrjp5Jq')

**Step 4**: Create a loop with a range of 2 hours(7200 sec ) and call function **“get\_real\_time\_currency\_conversion”** on the object of RestClient to use appropriate currency symbols to get data.

EURUSD = client\_polygon.get\_real\_time\_currency\_conversion("EUR", "USD")

**Step 5:** Get attribute data of Forex, timestamp of the transaction.

FXrate\_EURUSD = EURUSD.converted

FX\_timestamp\_EURUSD = datetime.utcfromtimestamp(EURUSD.last.timestamp / 1000)

**Step 6:** Convert the timestamp data from UTC to date time string.

TS24\_EURUSD = FX\_timestamp\_EURUSD.strftime('%Y-%m-%d %H:%M:%S')

**Step 7:** Repeat steps 4-6 for different Forex inputs replacing “EUR” with from value and “USD” with Value.

**Step 8**: Capture the current time and convert the format to string.

 writing\_time = datetime.utcnow()

 DB\_time = writing\_time.strftime('%Y-%m-%d %H:%M:%S')

Step 9: Insert data into SQLite database, repeat for all currencies.

cursor\_sqlite.execute('''INSERT INTO conversion\_data

                                  (source\_currency, target\_currency, converted\_value, timestamp, writing\_time)

                                  VALUES (?, ?, ?, ?, ?)''',

                                  ('EUR', 'USD', FXrate\_EURUSD, TS24\_EURUSD, DB\_time))

**Step 10:** Define a dictionary data\_EURUSD with appropriate columns, Insert data into MongoDB.

collection\_mongodb.insert\_one(data\_EURUSD)

**Step 11:** Catch any errors and set the delay of 1 sec at the close of the loop. Close the DB connections.

**Step 12:** Initialize MongoDB connection and define the dictionary to store sum and count variables.

**Step 13:** Capture the count of FX rate values and the sum of all FX values. Calculate Avg by dividing the sum by the count.