

Code

```
import tweepy

import mysql.connector

import time


auth = tweepy.OAuthHandler('8mAH9OirUjCY4hr1Ck3TYg5Yi',
'YGrTPhdSNv6T0IpBoSLBIM6DY3cOb3UIYKkkHI780tM4gtAs5m')

auth.set_access_token('1310098231926222848-
dH0rY4TgqVhuEfURVaxa5rDJkdRNtR',
                        '3sCng6WFik3AZcsfXsJidg7mD4hHWzd2zDhANExfsRCIj')


api = tweepy.API(auth)

mydb =
mysql.connector.connect(host="localhost",user="vijay",passwd="Vijay@1999",
database="twitter")

mycursor = mydb.cursor()


def Show_Public_Tweets():

    public_tweets = api.home_timeline()

    for tweet in public_tweets:

        print(tweet.text)


def Show_MyProfile_Details():

    user = api.me()
```

```
print("My user name = ",user.name)

print("My screen name = ",user.screen_name)

print("No. of followers = ",user.followers_count)
```

```
def Show_MyFollowers_Details():
```

```
    for follower in (tweepy.Cursor(api.followers).items()):
```

```
        print(follower.followers_count,' ',follower.name)
```

```
print("do you want to store into database?")
```

```
choice = input("yes/no")
```

```
mycursor = mydb.cursor()
```

```
mycursor.execute("create table followers (name varchar(30),followers int)")
```

```
if choice == "yes":
```

```
    for follower in (tweepy.Cursor(api.followers).items()):
```

```
        sqlstuf = "insert into followers (name,followers) values(%s,%s)"
```

```
        record = (follower.name, follower.followers_count)
```

```
        mycursor.execute(sqlstuf, record)
```

```
        mydb.commit()
```

```
def ppl_im_following():
```

```
    for follower in limit_handle(tweepy.Cursor(api.friends).items()):
```

```
        print(follower.name, ' ', follower.followers_count)
```

```
print("do you want to store into database?")
```

```
choice = input("yes/no")
```

```
mycursor = mydb.cursor()
```

```
if choice == "yes":
```

```
    for follower in (tweepy.Cursor(api.friends).items()):
```

```
        sqlstuf = "insert into friends_det (name,followers) values(%s,%s)"
```

```
        record = (follower.name, follower.followers_count)
```

```
        mycursor.execute(sqlstuf, record)
```

```
    mydb.commit()
```

```
def like_a_tweet():
```

```
    search_string = input("Enter the search string ")
```

```
    numberOfTweets = 1
```

```
    for tweet in tweepy.Cursor(api.search,  
search_string).items(numberOfTweets):
```

```
        try:
```

```
            tweet.favorite()
```

```
            print('yes, I have liked a tweet containing search string given')
```

```
        except tweepy.TweepError as e:
```

```
            print(e.reason)
```

```
        except StopIteration:
```

```
            break
```

```
def retweet():
```

```
    search_string = input("Enter the search string ")
```

```

numberOfTweets = 1

for tweet in tweepy.Cursor(api.search,
search_string).items(numberOfTweets):

    try:

        tweet.retweet()

        print('yes, I have retweeted a tweet containing the given search string')

    except tweepy.TweepError as e:

        print(e.reason)

    except StopIteration:

        break

```

```

def update_status():

    status = input("enter the status ")

    api.update_status(status)

    print("status updated")

```

```

def searchTweet_and_retweet():

    hashtag = input('enter the hashtag ')

    tweetnumber = int(input("enter the tweetnumber "))

    tweetss = tweepy.Cursor(api.search, hashtag).items(tweetnumber)

    for tweet in tweetss:

        try:

            tweet.retweet()

```

```
        print("retweet done")

        time.sleep(2)

    except tweepy.TweepError as e:

        print(e.reason)

        time.sleep(2)
```

```
def limit_handle(cursor):

    try:

        while True:

            yield cursor.next()

    except tweepy.RateLimitError:

        time.sleep(15)
```

```
def errorhandler():

    return "invalid choice"
```

```
while(1):

    print("")

    1.Show_Public_Tweets/Home timeline tweets

    2.Show_MyProfile_Details

    3.Show_MyFollowers_Details

    4.like_a_tweet

    5.retweet
```

6.Update Status

7.search tweets with a particular hashtag and then retweet it

8.friends(people I'm following)

'''

)

choice = int(input("Enter the choice "))

operations = {

1:Show_Public_Tweets,

2:Show_MyProfile_Details,

3:Show_MyFollowers_Details,

4:like_a_tweet,

5:retweet,

6:update_status,

7:searchTweet_and_retweet,

8:ppl_im_following

}

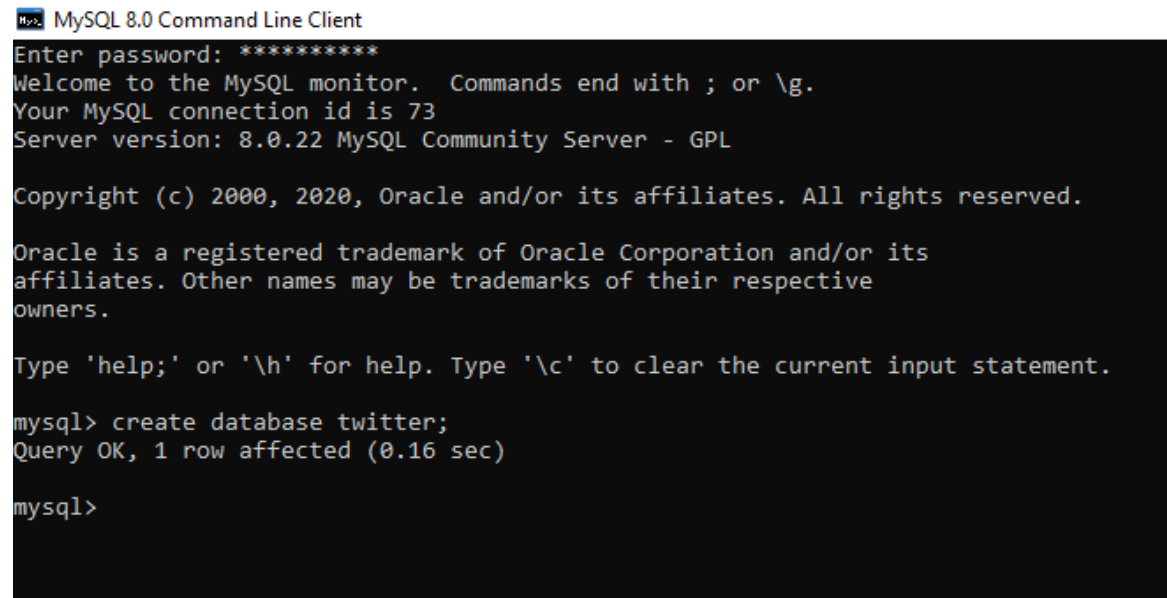
output = operations.get(choice,errorhandler)()

print(output)

CHAPTER 5

OUTPUT

1) Creating database Twitter before using it



```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 73
Server version: 8.0.22 MySQL Community Server - GPL

Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.

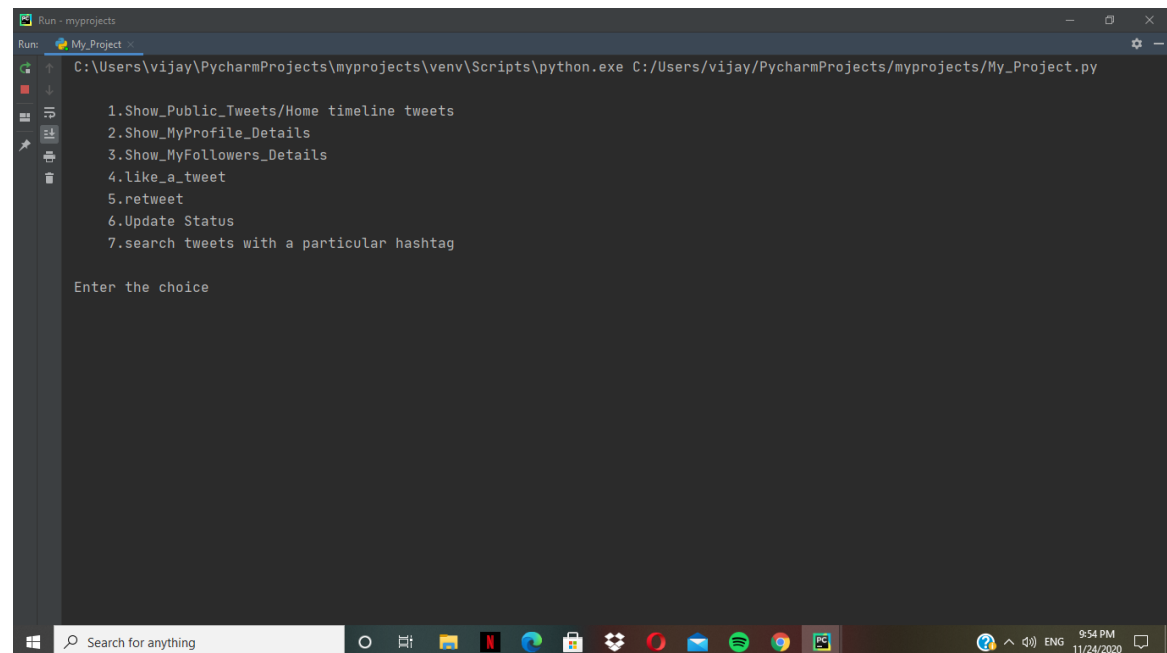
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> create database twitter;
Query OK, 1 row affected (0.16 sec)

mysql>
```

2) The main screen



```
Run - myprojects
Run: My_Project
C:\Users\vijay\PycharmProjects\myprojects\venv\Scripts\python.exe C:/Users/vijay/PycharmProjects/myprojects/My_Project.py

1.Show_Public_Tweets/Home timeline tweets
2.Show_MyProfile_Details
3.Show_MyFollowers_Details
4.like_a_tweet
5.retweet
6.Update Status
7.search tweets with a particular hashtag

Enter the choice
```

3) Showing the timeline tweets

```
Run - myprojects
Run: My_Project
7.search tweets with a particular hashtag

Enter the choice
RT @SonuSood: So proud of you my brother @ImRaina .. can't wait to see you soon. I am sure under your leadership our country will
RT @manakgupta: कश्मीर के बच्चों को क्रिकेट सिखाने का सबसे मुश्किल जिम्मा उठाया है @ImRaina ने. रेना खुद जम्मू-कश्मीर से है इसलिए अपनी U...
RT @imrahultrehan: Excellent initiative brother @ImRaina All the best.
RT @TEDCountdown: If the temperature in your home went up by 1.5 degrees, you probably wouldn't notice - but the world heating up
RT @archanavijaya: Congratulations and good luck with all your endeavours ! 🙌🙌🙌
RT @Umeshnni: Congrats Bro @ImRaina for signing MoU with J&K Sports Council for training budding cricketers across the Union
RT @MdSham11: Congratulations brother @ImRaina
RT @ArunPandey99: I would like to express my heartiest respect to @ImRaina for taking up this great initiative of building drink
RT @yashika10gupta: Not for nothing are you a champion. The kids will be so happy to have you as their hero and role model @ImRain
RT @vijaylokapally: Well done @ImRaina Your transition from player to take on the mantle of coaching and mentoring has been super
RT @PriyankaCRaina: Super super proud of you. I know how hard you have been working on this project & it's so wonderful to see
An extremely tight spell of 1/1(2)(4) by Adam Zampa under pressure, helped us push the game until the very last... https://t.co/yf
RT @UnstoppableVUVA: And we are grateful to you @PriyankaCRaina and @ImRaina for sharing your time, love and efforts for helping
RT @shafali_bagga: This is how one can give back to the society. Real hero @ImRaina #cricket @vikrantgupta73
RT @rawatrahul9: Congratulations and best wishes for your new endeavour. Your effort will go a long way in nurturing young talent
RT @rashikarajput01: Congratulations @ImRaina
Good Luck...!!
RT @vikrantgupta73: You are doing a good job @ImRaina - best wishes with you brother
RT @chitraaam: @ImRaina @manojsinha @nitishwarKumar @AdityaRajKaul @dcjammuofficial @BJP4JnK @SwetaSinghAT @aajtak Congratulation
Honoured to be part of the #FitIndiaSchoolWeek inauguration. Looking forward to the interaction with @KirenRijiju s... https://t.co
Slept at 10 pm and just woken up thought it would be morning But still 11:50pm ☹☹☹ #jetlag 🤔🤔🤔
None
```

4) To show my profile details

```
Run - myprojects
Run: My_Project
None

1.Show_Public_Tweets/Home timeline tweets
2.Show_MyProfile_Details
3.Show_MyFollowers_Details
4.like_a_tweet
5.retweet
6.Update Status
7.search tweets with a particular hashtag

Enter the choice
My user name = nimmaVijay
My screen name = VijayJB8
No. of followers = 6
```

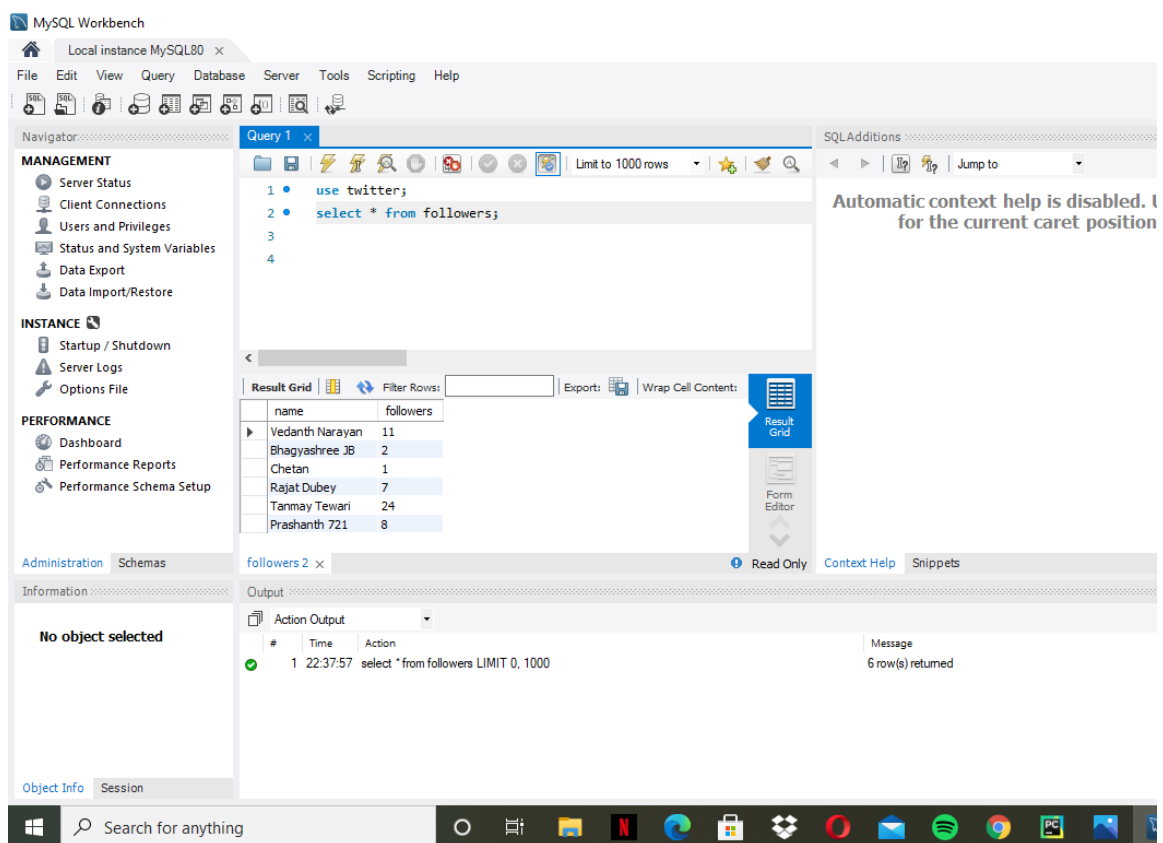


5) Displays my followers details

```
1.Show_Public_Tweets/Home timeline tweets
2.Show_MyProfile_Details
3.Show_MyFollowers_Details
4.like_a_tweet
5.retweet
6.Update Status
7.search tweets with a particular hashtag

Enter the choice 3
11    Vedanth Narayan
2     Bhagyashree JB
1     Chetan
7     Rajat Dubey
24    Tanmay Tewari
8     Prashanth 721
do you want to store into database?
yes/no
```

Storing the details retrieved in database (i.e. in the table named followers)





6) To like (favorite) a tweet

```

Run - myprojects
Run: My_Project x
C:\Users\vijay\PycharmProjects\myprojects\venv\Scripts\python.exe

1.Show_Public_Tweets/Home timeline tweets
2.Show_MyProfile_Details
3.Show_MyFollowers_Details
4.like_a_tweet
5.retweet
6.Update Status
7.search tweets with a particular hashtag

Enter the choice 4
Enter the search string karnatakaturism
yes, I have liked a tweet containing search string given

```



7) To retweet

```
Run - myprojects
Run: My_Project x
yes, I have liked a tweet containing search string given
None

1.Show_Public_Tweets/Home timeline tweets
2.Show_MyProfile_Details
3.Show_MyFollowers_Details
4.like_a_tweet
5.retweet
6.Update Status
7.search tweets with a particular hashtag

Enter the choice 5
Enter the search string india
yes, I have retweet a tweet containing virat kohli
None
```



8) Updating the status

```

Run - myprojects
Run: My_Project x
C:\Users\vijay\PycharmProjects\myprojects\venv\Scripts\python.

1.Show_Public_Tweets/Home timeline tweets
2.Show_MyProfile_Details
3.Show_MyFollowers_Details
4.like_a_tweet
5.retweet
6.Update Status
7.search tweets with a particular hashtag

Enter the choice 6
enter the status hi there! this is my bot updating my status!
status updated
None

```



9) Searching a tweet using particular hashtag and then interacting with it

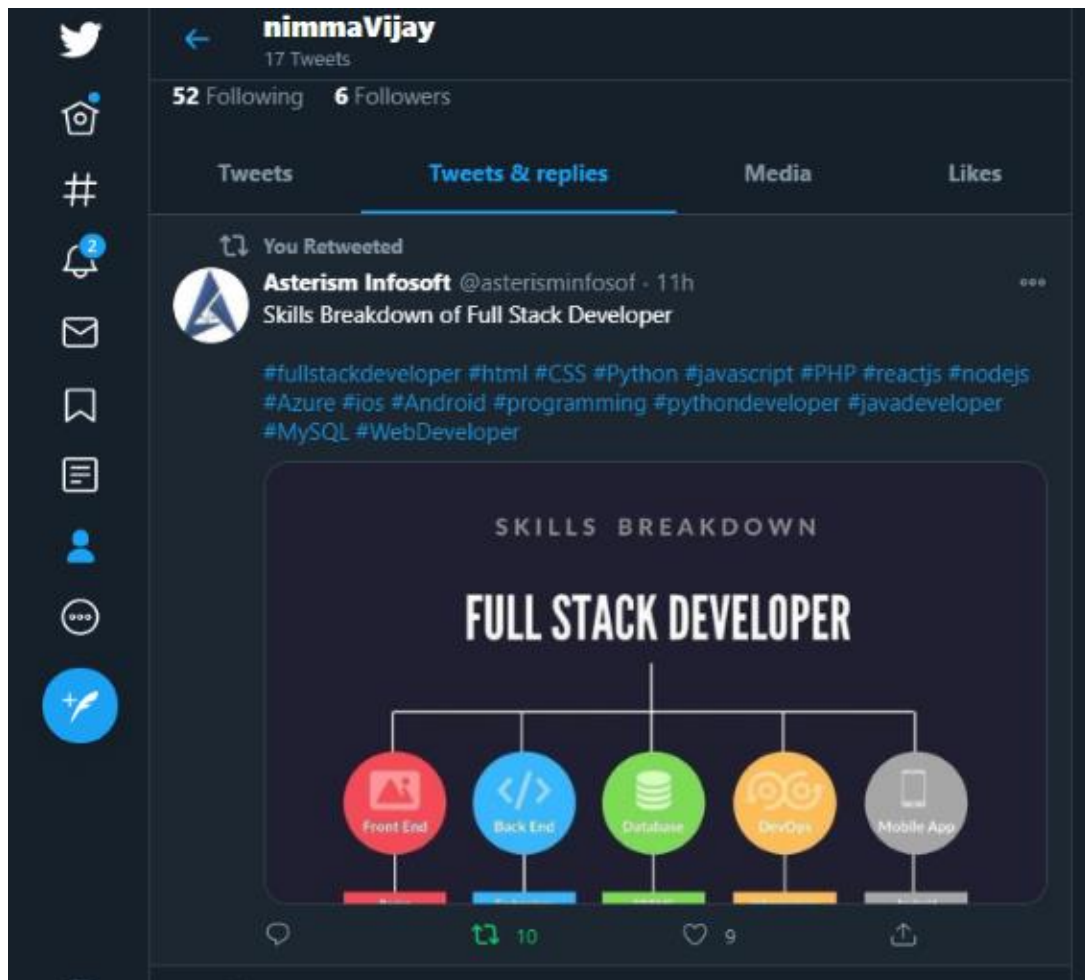
```

Run - myprojects
Run: My_Project x
C:\Users\vijay\PycharmProjects\myprojects\venv\Scripts\python.exe C

1.Show_Public_Tweets/Home timeline tweets
2.Show_MyProfile_Details
3.Show_MyFollowers_Details
4.like_a_tweet
5.retweet
6.Update Status
7.search tweets with a particular hashtag and then retweet it

Enter the choice 7
enter the hashtag #pythondeveloper
enter the tweetnumber 1
retweet done
None

```



10) It will display my friends (i.e. users I'm following)

```

Run - myprojects
My_Project x
C:\Users\vijay\PycharmProjects\myprojects\venv\Scripts\python.exe C:/Users/vi

1.Show_Public_Tweets/Home timeline tweets
2.Show_MyProfile_Details
3.Show_MyFollowers_Details
4.like_a_tweet
5.retweet
6.Update Status
7.search tweets with a particular hashtag and then retweet it
8.friends(people I'm following)

Enter the choice 8
Amit Shah 23763500
Rashid Khan 669935
Manish Pandey 808818
Devdutt Padikkal 98426
Amit Bhadana 673804
Ashish Chanchlani 1845596
Bhuvan Bam 3778399
Bhagyashree JB 2
Chetan 1
TED Talks 11450799
Great Minds Quotes 4303892
Tanmay Tewari 24
Keerthy Suresh 3452722
President of India 11841918
  
```

Storing in the database

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar contains a Navigator pane with icons for Server, Client, User, Status, Data, and Data. The main window displays a query editor with the following SQL code:

```
1 • use employee;  
2 • select * from friends;  
3  
4
```

Below the query editor, the 'Result Grid' tab is active, showing the results of the query. The results are displayed in a table with two columns: 'name' and 'followers'. The table contains 16 rows of data, including names like 'IndianPremierLe...', 'taapsee panna', 'Yogi Adityanath', 'Shikhar Dhawan', 'Royal Challenger...', 'Anupam Kher', 'PRIYANKA', 'Yuzvendra Chahal', 'Rohit Sharma', 'Siddharamaiah', 'Sadhguru', 'hardik pandya', 'Shah Rukh Khan', 'Anil Kapoor', 'Suresh Raina', 'Mahesh Babu', 'Sachin Tendulkar', 'K L Rahul', 'Kapil Sharma', and 'Amitabh Bachchan'.

At the bottom of the interface, there is a status bar showing 'friends 8' and an 'Output' pane.