

## My Python Snippets 2.7

### Enter Data from a File into a Database

```
In [6]: 1 import sqlite3
2 import time
3 #account = "TEDTalks.txt"
4 account = "importpython.txt"
5 #account = "elonmusk.txt"
6 #account = "realDonaldTrump.txt"
7 user = account[:-4]
8 lines = open(account, "r")
9 line = lines.readline()
10 for line in lines:
11     conn = sqlite3.connect('collection.db')
12     # ProgrammingError: You must not use 8-bit bytestrings
13     # unless you use a text_factory
14     conn.text_factory = str
15     c = conn.cursor()
16     c.execute("INSERT INTO tweets VALUES (?,?)", (line, user))
17     conn.commit()
18     conn.close()
19
20     #print line
21
22 conn.commit()
23 conn.close()
```

Jacknorthrup TwitterBot Project

## My Python Snippets

### Create a Database and Tables

#### Using FTS3 - full text search

```
In [ ]: 1 import sqlite3
2 conn = sqlite3.connect('collection.db')
3 c = conn.cursor()
4 c.execute("""
5 CREATE VIRTUAL TABLE tweets
6 USING FTS3(text, account);
7 """)
8 conn.commit()
9 conn.close()
```

Jacknorthrup TwitterBot Project

## My Python Snippets 2.7

### Searching and Reading the Twitter Database

```
1 import sqlite3
2 import sys
3 conn = sqlite3.connect('collection.db')
4 c = conn.cursor()
5 count=0
6 # Limits query to 1000
7 req=1000
8 search = raw_input("Search : ")
9 for row in c.execute("SELECT rowid,* FROM tweets WHERE text MATCH ?", (search,)):
10     count=count+1
11     print count,"-", (row)[1], " -- by", (row)[2], "\n"
12     if count > req:
13         conn.close()
14         sys.exit()

Search : Flight
1 - "...to terrorism and airline flight safety. Humanitarian reasons, plus I want Russia
   gainst ISIS & terrorism."
   -- byrealDonaldTrump

2 - "@CloveLife No, but shielding got fragged every flight. More control authority is t
   https://t.co/mkpv3JvXK"
   -- by elonmusk

3 - RT @SpaceX: Quick video recap of Falcon 9 launch of Inmarsat-5 Flight 4 https://t.co
   -- by elonmusk

4 - @Cardoso Silliest thing we can imagine! Secret payload of 1st Dragon flight was a n
```

Jacknorthrup TwitterBot Project

## My Python Snippets 2.7

### Loads the NewsFeeds From 35 Sources into an FTS3 Database

```
[2]: 1 import sqlite3
2 import feedparser
3 import time
4 import sqlite3
5 Dbase = 'bigfeedfts.db'
6 conn = sqlite3.connect(Dbase)
7 c = conn.cursor()
8 c.execute("""
9 CREATE VIRTUAL TABLE IF NOT EXISTS bbctech
10 USING FTS3(head, feed);
11 """)
12 count=0
13 while count<35:
14     count=count+1
15     # This is for posting my actual list has 35 sources
16     if count==1: feed='http://feeds.bbc1.co.uk/news/technology/rss.xml'
17     if count==2: feed='http://www.cbn.com/cbnnews/us/feed/'
18     d = feedparser.parse(feed)
19     for post in d.entries:
20         aa = 'd[feed][title],d[feed][link],d.entries[0][link]'
21         bb = 'post.title + " : " + post.link + "'
22         conn = sqlite3.connect(Dbase)
23         c = conn.cursor()
24         c.execute("INSERT INTO bbctech VALUES (?,?)", (aa,bb))
25         conn.commit()
26         conn.close()
```

Jacknorthrup TwitterBot Project

## My Python Snippets 2.7

### Searches of 'snippet.db' return formatted code

```
1 #Returned code can be cut and pasted
2 import sqlite3
3 import sys
4 conn = sqlite3.connect('snippet.db')
5 conn.text_factory = str
6 c = conn.cursor()
7 count=0; req=200
8 search = raw_input("Search : ")
9 for row in c.execute("SELECT * FROM snippet WHERE text MATCH ?", (search,)):
10     count=count+1
11     #print count,"by", (row)[2], "\n", (row)[1], "\n"
12     print count,"-", (row)[1], " -- by", (row)[2], "\n"
13     if count > req:
14         conn.close()
15         sys.exit()

Search : factory
1
def insert_info(store):
    with sqlite3.connect("misc.db") as db:
        #use a text_factory that can interpret 8-bit bytestrings
        db.text_factory = str
        cursor = db.cursor()
        #db.text_factory = str
        sql = "insert into storeit (data0, data1, data2) values (?, ?, ?)"
        cursor.execute(sql, store)
        db.commit()
```

Jacknorthrup TwitterBot Project

## My Python Snippets 2.7

### Limited Amount of Results -- req=100

```
1 import sqlite3
2 import sys
3 conn = sqlite3.connect('bigfeedfts.db')
4 c = conn.cursor()
5 count=0
6 # Limited Amount of Results to 100
7 req=100
8 term = raw_input("Search Term : ")
9 for row in c.execute("SELECT * FROM bbctech WHERE feed MATCH ?", (term,)):
10     row=str(row)
11     row=row.replace("\u(u",""); row=row.replace(" ", " ");
12     row=row.replace("u"," "); row=row.replace("'", " ");
13     row=row.replace("http://", "\nhttp://"); row=row.replace("'", '')
14     row=row.replace("",""); row=row.replace("#tk.rss_all", "")
15     count=count+1
16     print "\n", count, "-----\n", (row)
17     if count > req:
18         conn.close()
19         sys.exit()

Search Term : spacecraft

1 -----
BBC News - Technology
http://www.bbc.co.uk/news/
http://www.bbc.co.uk/news/technology-41518351
Nasa tests new Dream Chaser spacecraft and other news:
http://www.bbc.co.uk/news/technology-41012557
```

Jacknorthrup TwitterBot Project