import sqlite3

import re

conn = sqlite3.connect('orgcount.sqlite') #创建连接数据库

cur = conn.cursor() #打开数据库

cur.execute('DROP TABLE IF EXISTS Counts')

cur.execute('''CREATE TABLE Counts (org TEXT, count INTEGER)''')

fname = input('Enter file name: ')

if (len(fname) < 1): fname = 'mbox.txt'

fh = open(fname)

tag = ''

for line in fh:

if not line.startswith('From: '): continue

pieces = line.split()

email = pieces[1]

x = email.split('.')

#print(email)

for i in x:

t = i.find('@') + 1

if t:

tag = i

org = tag.split('@')[-1]

#print(t)

#print(i)

#print(tag)

#print(org)

cur.execute('SELECT count FROM Counts WHERE org = ? ', (org,))

row = cur.fetchone()

if row is None:

cur.execute('''INSERT INTO Counts (org, count)

VALUES (?, 1)''', (org,))

else:

cur.execute('UPDATE Counts SET count = count + 1 WHERE org = ?',

(org,))

conn.commit()

# https://www.sqlite.org/lang\_select.html

sqlstr = 'SELECT org, count FROM Counts ORDER BY count DESC LIMIT 10'

for row in cur.execute(sqlstr):

print(str(row[0]), row[1])

cur.close()