

DSC450
01/24/21
HW 3 Part 2b

Code:

```
import sqlite3
```

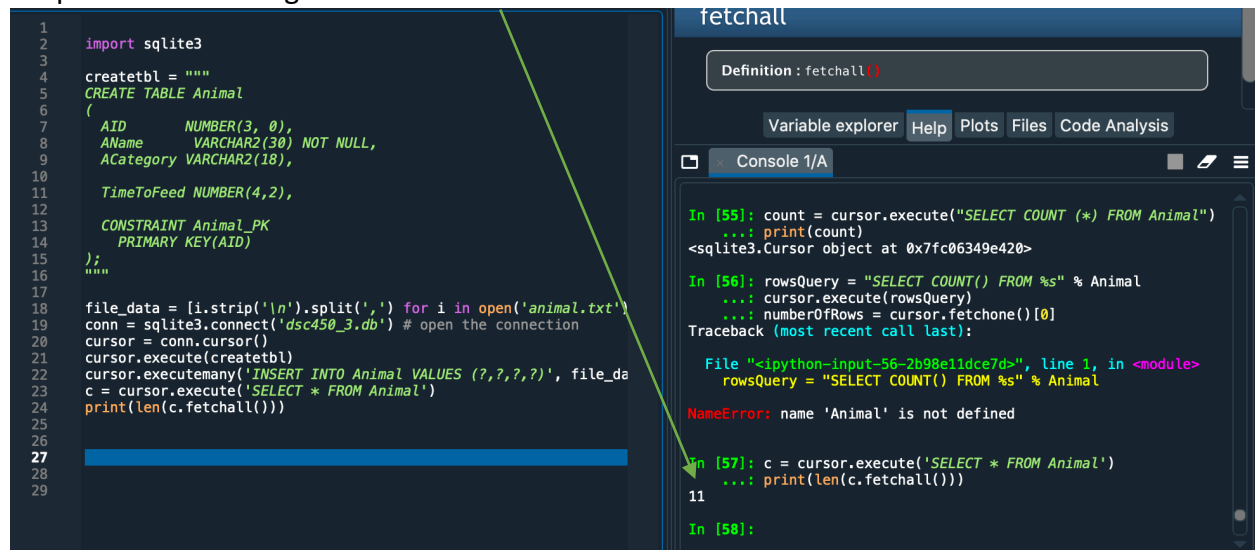
```
createtbl = """
CREATE TABLE Animal
(
    AID    NUMBER(3, 0),
    AName  VARCHAR2(30) NOT NULL,
    ACategory VARCHAR2(18),

    TimeToFeed NUMBER(4,2),

    CONSTRAINT Animal_PK
    PRIMARY KEY(AID)
);
"""
```

```
file_data = [i.strip('\n').split(',') for i in open('animal.txt')]
conn = sqlite3.connect('dsc450_3.db') # open the connection
cursor = conn.cursor()
cursor.execute(createtbl)
cursor.executemany('INSERT INTO Animal VALUES (?, ?, ?, ?)', file_data)
c = cursor.execute('SELECT * FROM Animal')
print(len(c.fetchall()))
```

Output demonstrating number of rows:



```
1 import sqlite3
2
3 createtbl = """
4 CREATE TABLE Animal
5 (
6     AID    NUMBER(3, 0),
7     AName  VARCHAR2(30) NOT NULL,
8     ACategory VARCHAR2(18),
9
10    TimeToFeed NUMBER(4,2),
11
12    CONSTRAINT Animal_PK
13    PRIMARY KEY(AID)
14 );
15 """
16
17 file_data = [i.strip('\n').split(',') for i in open('animal.txt')]
18 conn = sqlite3.connect('dsc450_3.db') # open the connection
19 cursor = conn.cursor()
20 cursor.execute(createtbl)
21 cursor.executemany('INSERT INTO Animal VALUES (?, ?, ?, ?)', file_data)
22 c = cursor.execute('SELECT * FROM Animal')
23 print(len(c.fetchall()))
24
25
26
27
28
29
```

fetchall

Definition: fetchall()

Variable explorer Help Plots Files Code Analysis

Console 1/A

```
In [55]: count = cursor.execute("SELECT COUNT (*) FROM Animal")
...: print(count)
<sqlite3.Cursor object at 0x7fc06349e420>

In [56]: rowsQuery = "SELECT COUNT() FROM %s" % Animal
...: cursor.execute(rowsQuery)
...: numberOfRows = cursor.fetchone()[0]
Traceback (most recent call last):

  File "<ipython-input-56-2b98e11dce7d>", line 1, in <module>
    rowsQuery = "SELECT COUNT() FROM %s" % Animal
NameError: name 'Animal' is not defined

In [57]: c = cursor.execute('SELECT * FROM Animal')
...: print(len(c.fetchall()))
11

In [58]:
```