

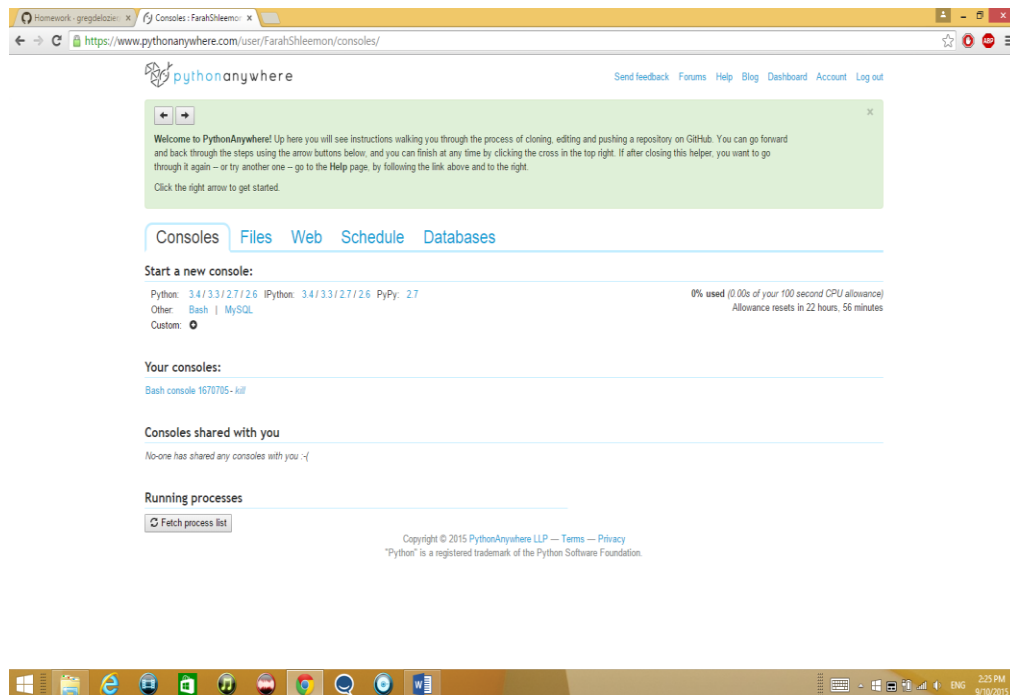
1. Get Python set up on your computer.

I already have python on my computer because I am working on my research using Python

2. Get your PythonAnywhere account set up.

I have pythonAnywhere account which is

My user name is FarahShleemon



3. Do the SQLite tutorial here: <http://zetcode.com/db/sqlite/>

I read the SQLite tutorial also I implement most of the instruction.

The screenshot shows a web browser window with the URL <https://www.pythonanywhere.com/user/FarahShleemon/consoles/bash/1691395/>. The page title is "pythonanywhere". A green welcome message is displayed at the top. Below it, a terminal window titled "Bash console 1691395" shows the following commands and output:

```
18:43 ~$ cd sql
18:43 ~$ sqlite3 students.db
sqlite_version 3.8.2 2013-12-06 14:53:30
Enter SQL statements terminated with a ";"
sqlite> create table studentInfo(id INTEGER PRIMARY KEY, Name TEXT, age Numeric)
sqlite> .schema
CREATE TABLE studentInfo(id INTEGER PRIMARY KEY, Name TEXT, age Numeric);
sqlite> insert into studentInfo (id,name,age)values(1,farah,30);
Error: no such column: farah
sqlite> insert into studentInfo (id,name,age)values(1,"farah",30)
sqlite> insert into studentInfo(id,name,age) values(2,"Rani",35)
sqlite> .mode column
Error: mode should be one of: column csv html insert line list tabs tcl
sqlite> .mode column
sqlite> .header on
sqlite> select * from studentInfo;
id      Name      age
-----
1       farah     30
2       Rani      35
sqlite> select id,name from studentInfo where age >30;
id      Name
-----
2       Rani
```

The terminal window also shows the system tray at the bottom with the date and time: 9/10/2015, 2:56 PM.

4. I create database called students then I create table I called it StudentInfo  
Also I create database called test I put into it two tables cars and order.

The screenshot shows a web browser window with the URL <https://www.pythonanywhere.com/user/FarahShleemon/consoles/bash/1691395/>. The page title is "pythonanywhere". A green welcome message is displayed at the top. Below it, a terminal window titled "Bash console 1691395" shows the following commands and output:

```
CREATE TABLE studentInfo(id INTEGER PRIMARY KEY, Name TEXT, age Numeric);
CREATE TABLE Cars(id INTEGER PRIMARY KEY, Name TEXT, Price INTEGER);
sqlite> select * from Cars;
id      Name      Price
-----
1       Audi      52642
2       Mercedes  57127
3       Skoda     9000
4       Volvo     29000
5       Bentley   350000
6       Citroen    21000
7       Hummer    41400
8       Volkswagen 21600
sqlite> select Name,price from Cars where id=2
Name      Price
-----
Mercedes   57127
sqlite> .read order.sql
Error: cannot open "order.sql"
sqlite> .read orders.sql
sqlite> .schema
CREATE TABLE studentInfo(id INTEGER PRIMARY KEY, Name TEXT, age Numeric);
CREATE TABLE Cars(id INTEGER PRIMARY KEY, Name TEXT, Price INTEGER);
CREATE TABLE Orders(id INTEGER PRIMARY KEY,
                     OrderPrice INTEGER CHECK(OrderPrice>0), Customer TEXT);
sqlite> .mode csv
sqlite> select
```

The terminal window also shows the system tray at the bottom with the date and time: 9/10/2015, 3:02 PM.

SQLite expressions x Bash console 1691395: f: x Google x

https://www.pythonanywhere.com/user/FarahShleemon/consoles/bash/1691395/

pythonanywhere

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Click the right arrow to get started.

Bash console 1691395

```
6 Citroen 21000
7 Hummer 41400
8 Volkswagen 21600
sqlite> select Name,price from Cars where id=2
...>
Name Price
-----
Mercedes 57127
sqlite> .read order.sql
Error: cannot open "order.sql"
sqlite> .read orders.sql

sqlite> .schema
CREATE TABLE studentInfo(id INTEGER PRIMARY KEY, Name TEXT, age Numeric);
CREATE TABLE Cars(id INTEGER PRIMARY KEY, Name TEXT, Price INTEGER);
CREATE TABLE Orders(id INTEGER PRIMARY KEY,
                    OrderPrice INTEGER CHECK(OrderPrice>0), Customer TEXT);
sqlite> .mode csv
sqlite> select * from orders
...>
id,OrderPrice,Customer
1,1200,Williamson
2,200,Robertson
3,40,Robertson
4,1640,Smith
5,100,Robertson
6,30,Williamson
7,150,Smith
8,250,Smith
9,840,Brown
```

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Windows taskbar: 3:11 PM 9/10/2015

SQLite expressions x Bash console 1691395: f: x Google x

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Click the right arrow to get started.

Bash console 1691395

```
11:20,Brown
sqlite> .mode html
sqlite> select * from orders
...>
<tr><th>id</th>
<th>orderPrice</th>
<th>Customer</th>
</tr>
<tr><td>1</td>
<td>1200</td>
<td>Williamson</td>
</tr>
<tr><td>2</td>
<td>200</td>
<td>Robertson</td>
</tr>
<tr><td>3</td>
<td>40</td>
<td>Robertson</td>
</tr>
<tr><td>4</td>
<td>1640</td>
<td>Smith</td>
</tr>
<tr><td>5</td>
<td>100</td>
<td>Robertson</td>
</tr>
<tr><td>6</td>
<td>30</td>
<td>Williamson</td>
</tr>
<tr><td>7</td>
<td>150</td>
<td>Smith</td>
</tr>
<tr><td>8</td>
<td>250</td>
<td>Smith</td>
</tr>
<tr><td>9</td>
<td>840</td>
<td>Brown</td>
</tr>
```

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Windows taskbar: 3:15 PM 9/10/2015

## 5. I did the same work using python

The screenshot shows a Windows desktop with two open applications. The main application is 'SQLWorkpy - C:\Python27\sql\SQLWork.py (2.7.9)'. It contains Python code that connects to a SQLite database named 'CarInfo.db', creates a table named 'Cars' with columns 'Id' (INTEGER PRIMARY KEY), 'Name' (TEXT), and 'Price' (INTEGER). It then inserts five rows of data: Camery (6000), Audi (52642), Skoda (9000), Volvo (29000), and Bentley (350000). The code also reads a file named 'orders.sql' and commits the changes. The second application is 'Python 2.7.9 Shell', which shows the Python 2.7.9 prompt and the same code being executed.

```
SQLWorkpy - C:\Python27\sql\SQLWork.py (2.7.9)
File Edit Format Run Options Windows Help
import sqlite3
conn = sqlite3.connect('CarInfo.db')
c = conn.cursor()

# Create table
c.execute('''CREATE TABLE Cars(Id INTEGER PRIMARY KEY, Name TEXT, Price INTEGER);''')
# Insert into table
c.execute("INSERT INTO Cars VALUES (1, 'Camery', 6000)")
c.execute("INSERT INTO Cars VALUES (2, 'Audi', 52642)")
c.execute("INSERT INTO Cars VALUES (3, 'Skoda', 9000)")
c.execute("INSERT INTO Cars VALUES (4, 'Volvo', 29000)")
c.execute("INSERT INTO Cars VALUES (5, 'Bentley', 350000)")
# Create another table using .read
SFile = open('orders.sql').read()
c.executescript(SFile)
conn.commit()
conn.close()

Python 2.7.9 Shell
File Edit Shell Debug Options Windows Help
Python 2.7.9 (default, Dec 10 2014, 12:24:55) [MSC v.1500 32 bit (Intel)] on win
32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
```

The screenshot shows the same Windows desktop with two open applications. The main application is 'SQLWork (2).py - C:\Python27\sql\SQLWork (2).py (2.7.9)'. It contains Python code that connects to a SQLite database named 'CarInfo.db', creates a table named 'Cars' with columns 'Id' (INTEGER PRIMARY KEY), 'Name' (TEXT), and 'Price' (INTEGER). It then inserts five rows of data: Camery (6000), Audi (52642), Skoda (9000), Volvo (29000), and Bentley (350000). The code also reads a file named 'orders.sql' and commits the changes. The second application is 'Python 2.7.9 Shell', which shows the Python 2.7.9 prompt and the same code being executed.

```
SQLWork (2).py - C:\Python27\sql\SQLWork (2).py (2.7.9)
File Edit Format Run Options Windows Help
import sqlite3
conn = sqlite3.connect('CarInfo.db')
c = conn.cursor()

# Query one
# c.execute("SELECT * FROM Cars ")
# for data in c.execute("SELECT * FROM Cars"):
#     print data

print "Query one"

# Query two
for data2 in c.execute("SELECT * FROM Cars WHERE id=1"):
    print data2

print "Query Three"

# Query three
for data3 in c.execute("SELECT * FROM Cars ORDER BY price"):
    print data3

print "Query Four"

# Query four
for data4 in c.execute("SELECT * FROM Cars where price>10000"):
    print data4

c.execute("UPDATE Cars SET Name = 'Honda' WHERE id = 1 ")
conn.commit()

print "Query Five"

# Query five
for data in c.execute("SELECT * FROM Cars WHERE id=1"):
    print data

c.execute("ALTER TABLE Cars RENAME TO CarF222");
for data in c.execute("SELECT * FROM CarF222 WHERE id=1"):
    print data

c.execute("ALTER TABLE CarF222 RENAME TO Cars");
c.execute("DROP TABLE Orders")
conn.close()

Python 2.7.9 Shell
File Edit Shell Debug Options Windows Help
Python 2.7.9 (default, Dec 10 2014, 12:24:55) [MSC v.1500 32 bit (Intel)] on win
32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
Query one
(1, u'Camery', 6000)
(2, u'Audi', 52642)
(3, u'Skoda', 9000)
(4, u'Volvo', 29000)
(5, u'Bentley', 350000)
Query two
(1, u'Camery', 6000)
Query Three
(1, u'Camery', 6000)
(3, u'Skoda', 9000)
(4, u'Volvo', 29000)
(2, u'Audi', 52642)
(5, u'Bentley', 350000)
Query Four
(2, u'Audi', 52642)
(4, u'Volvo', 29000)
(5, u'Bentley', 350000)
Query Five
(1, u'Honda', 6000)
(1, u'Honda', 6000)
>>>
```