a. Insert data into a SQL Lite database – create a table with the following data (Hint: Python for Data Analysis page 191):

b. Name, Address, City, State, Zip, Phone Number

c. Add at least 10 rows of data and submit your code with a query generating your results.

```
In [42]: import sqlite3
         from sqlite3 import Error
         import pandas as pd
```

```
In [51]: # Data is read from the csv file
         AddressBookFile = "AddressBook.csv"
         AddressBookData = pd.read_csv(AddressBookFile)
         AddressBookData
```

Out[51]:

	Name	Address	City	State	Zip	PhoneNumber
0	Name1	Address1	City1	state1	zip1	phone1
1	Name2	Address2	City2	state2	zip2	phone2
2	Name3	Address3	City3	state3	zip3	phone3
3	Name4	Address4	City4	state4	zip4	phone4
4	Name5	Address5	City5	state5	zip5	phone5
5	Name6	Address6	City6	state6	zip6	phone6
6	Name7	Address7	City7	state7	zip7	phone7
7	Name8	Address8	City8	state8	zip8	phone8
8	Name9	Address9	City9	state9	zip9	phone9
9	Name10	Address10	City10	state10	zip10	phone10

```python
In [52]:  # Create table
          import sqlite3
          add_table = """
          CREATE TABLE AddressBook
          (Name VARCHAR(20), Address VARCHAR(20),
          City VARCHAR(20),State VARCHAR(20),
          zip VARCHAR(20),PhoneNumber VARCHAR(20)
          );"""
          drop_table = """
          DROP TABLE AddressBook
          """
          sqlite_file = 'DSC540_EdrisSafari.sqlite'
          con = sqlite3.connect(sqlite_file)

          con.execute(drop_table)
          con.commit()

          con.execute(add_table)
          con.commit()
```

```python
In [53]:  data = AddressBookData.values.tolist()
          insert_data = "INSERT INTO AddressBook VALUES(?, ?, ?, ?, ?, ?)"
          con.executemany(insert_data, data)
          con.commit()
```

```python
In [54]:  cursor = con.execute('select * from AddressBook')
          rows = cursor.fetchall()
          rows
```

```
Out[54]:  [('Name1', 'Address1', 'City1', 'state1', 'zip1', 'phone1'),
           ('Name2', 'Address2', 'City2', 'state2', 'zip2', 'phone2'),
           ('Name3', 'Address3', 'City3', 'state3', 'zip3', 'phone3'),
           ('Name4', 'Address4', 'City4', 'state4', 'zip4', 'phone4'),
           ('Name5', 'Address5', 'City5', 'state5', 'zip5', 'phone5'),
           ('Name6', 'Address6', 'City6', 'state6', 'zip6', 'phone6'),
           ('Name7', 'Address7', 'City7', 'state7', 'zip7', 'phone7'),
           ('Name8', 'Address8', 'City8', 'state8', 'zip8', 'phone8'),
           ('Name9', 'Address9', 'City9', 'state9', 'zip9', 'phone9'),
           ('Name10', 'Address10', 'City10', 'state10', 'zip10', 'phone10')]
```