2/28/23, 1:56 PM Untitled

DSC 540 Brandon Mather Activity 11:

```
In [2]:
         import sqlite3
 In [3]: #Connect to petsDB and check if the connection has been successful
         conn = sqlite3.connect("petsdb")
         def is_opened(conn):
 In [4]:
             try:
                  conn.execute("SELECT * FROM persons LIMIT 1")
                  return True
              except sqlite3.ProgrammingError as e:
                  print("Connection closed {}".format(e))
                  return False
 In [5]: print(is_opened(conn))
         True
         conn.close()
 In [6]:
         print(is_opened(conn))
 In [7]:
         Connection closed Cannot operate on a closed database.
         False
         #Find the different age groups in the persons database
 In [8]:
          conn = sqlite3.connect("petsdb")
         c = conn.cursor()
In [9]:
         for ppl, age in c.execute("SELECT count(*), age FROM persons GROUP BY age"):
In [10]:
             print("We have {} people aged {}".format(ppl, age))
```

Untitled

```
We have 2 people aged 5
We have 1 people aged 6
We have 1 people aged 7
We have 3 people aged 8
We have 1 people aged 9
We have 2 people aged 11
We have 3 people aged 12
We have 1 people aged 13
We have 4 people aged 14
We have 2 people aged 16
We have 2 people aged 17
We have 3 people aged 18
We have 1 people aged 19
We have 3 people aged 22
We have 2 people aged 23
We have 3 people aged 24
We have 2 people aged 25
We have 1 people aged 27
We have 1 people aged 30
We have 3 people aged 31
We have 1 people aged 32
We have 1 people aged 33
We have 2 people aged 34
We have 3 people aged 35
We have 3 people aged 36
We have 1 people aged 37
We have 2 people aged 39
We have 1 people aged 40
We have 1 people aged 42
We have 2 people aged 44
We have 2 people aged 48
We have 1 people aged 49
We have 1 people aged 50
We have 2 people aged 51
We have 2 people aged 52
We have 2 people aged 53
We have 2 people aged 54
We have 1 people aged 58
We have 1 people aged 59
We have 1 people aged 60
We have 1 people aged 61
We have 2 people aged 62
We have 1 people aged 63
We have 2 people aged 65
We have 2 people aged 66
We have 1 people aged 67
We have 3 people aged 68
We have 1 people aged 69
We have 1 people aged 70
We have 4 people aged 71
We have 1 people aged 72
We have 5 people aged 73
We have 3 people aged 74
```

```
In [11]: #Find the age group that has the maximum number of people
for ppl, age in c.execute("SELECT count(*), age FROM persons GROUP BY age ORDER BY couprint("Highest number of people {} came from {} age group".format(ppl, age))
    break
```

Highest number of people 5 came from 73 age group

2/28/23, 1:56 PM Untitled

```
#Find the people who do not have a last name
In [12]:
          res = c.execute("SELECT count(*) FROM persons WHERE last name IS null")
         for row in res:
             print(row)
         (60,)
         #Find out how many people have more then one pet
In [17]:
          res = c.execute("SELECT count(*) FROM (SELECT count(owner id) FROM pets GROUP BY owner
         for row in res:
             print("{} People has more than one pets".format(row[0]))
         43 People has more than one pets
         #Find out how many pets have received treatment
In [18]:
         res = c.execute("SELECT count(*) FROM pets WHERE treatment done=1")
         for row in res:
             print(row)
         (36,)
In [19]: #Find out how many pets have recievd treatment and the type of pet is known
          res = c.execute("SELECT count(*) FROM pets WHERE treatment_done=1 AND pet_type IS NOT
         for row in res:
             print(row)
         (16,)
In [20]: #Find out how many pets are from the called east port
          res = c.execute("SELECT count(*) FROM pets JOIN persons ON pets.owner_id = persons.id
         for row in res:
             print(row)
         (49,)
In [21]: #Find out how many pets are from the city called east port and who recieved a treatmer
          res = c.execute("SELECT count(*) FROM pets JOIN persons ON pets.owner id = persons.id
         for row in res:
             print(row)
         (11,)
```