Function 1 - getAllMembers():

```
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 1
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Name | Email | Age | Membership Plan
-------------------------------------------------
Michael Scott | michael.scott@example.com | 45 | Annual
Pam Beesly | pam.beesly@example.com | 28 | Monthly
Jim Halpert | jim.halpert@example.com | 30 | Annual
Dwight Schrute | dwight.schrute@example.com | 35 | Monthly
Angela Martin | angela.martin@example.com | 32 | Monthly
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main>
```

Function 2 - countClassesPerGym():

```
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 2
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
-------------------------------------------------
Classes available at Downtown Gym: 1
Classes available at Uptown Gym: 1
Classes available at Eastside Gym: 2
Classes available at Westside Gym: 1
Classes available at Central Gym: 1
```

Function 3 - getMembersByClass(classId):

```
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 3 1
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Members attending Class ID 1:
Michael Scott
Dwight Schrute
```

Function 4 - listEquipmentByType(equipmentType):

```
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 4 Cardio
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
-- Equipment of type Cardio: -----------------------------------------
Treadmill
Rowing Machine
```

Function 5 - getExpiredMemberships():

```
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 5
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Expired Memberships:
Michael Scott
Pam Beesly
Jim Halpert
Dwight Schrute
Angela Martin
```

Function 6 - getClassesByInstructor(instructorId):

```
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 6 1
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
-- Classes Taught by Laura Thompson: -----------------------------------------
-- Phone: 555-1111
Class: Morning Yoga, Type: Yoga, Duration: 60, Capacity: 20
Class: Shaggy Shindig, Type: Zumba, Duration: 50, Capacity: 20
```

Function 7 - calculateAverageAge():

```
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 7
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Average Age of Active Members: No active members
Average Age of Expired Members: 34.00
(None, 34.0)
```

Function 8 - topInstructors():

```
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 8
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
-- Top-Teaching Instructors: -------------------------------------------------
Laura Thompson | Teaches: 2
Olivia Harris | Teaches: 1
James Miller | Teaches: 1
-----------------------------------------------------------------------------
```

Function 9 - findMembersByClassType(classType):

```
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 9 Zumba
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
No members have attended all Zumba classes.
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 9 Yoga
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Members who attended all Yoga classes:
Michael Scott
Dwight Schrute
```

Function 10 - recentClassAttendance():

```
PS C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main> python Main.py 10
Attempting to connect to database at: C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
Connected to SQLite at C:\Users\trons\Documents\GitHub\CS359_Project\Stage3\src\main\database\XYZGym.sqlite
-- Recent Class Attendees: --------------------------------------------------------------------------------
Member Name              Total Classes Attended      Classes Attended                    Class Types
=========================================================================================================
Michael Scott                      3                 HIIT Blast, Zumba Fun,              HIIT, Zumba,
Jim Halpert                        3                 HIIT Blast, Zumba Fun,              HIIT, Zumba,
Dwight Schrute                     3                 Morning Yoga, Strength Training,    Yoga, Weights,
---------------------------------------------------------------------------------------------------------
```