

# Class Project

## Part 4

### Execution screenshots

5/10/2023

#### 1.) Files in directory

```
> ll
-rw-r--r-- 1 tbcrow staff 3 KiB Mon May 8 19:47:24 2023 ✓ crtddb.sql
-rw-r--r-- 1 tbcrow staff 12 KiB Mon May 8 19:45:42 2023 ✓ insdb.sql
-rw-r--r-- 1 tbcrow staff 256 B Mon May 8 19:24:39 2023 ✓ objectives.txt
-rw-r--r-- 1 tbcrow staff 24 KiB Wed May 10 13:28:45 2023 ✓ proj.py
-rw-r--r-- 1 tbcrow staff 132 KiB Wed May 10 13:28:45 2023 ✓ testsql1.sqlite
-rw-r--r-- 1 tbcrow staff 132 KiB Tue May 9 23:59:39 2023 ? testsql2.sqlite
```

#### 2.) Initial screen for logging into SQLite database

```
*****
*                                     *
*      Digital Display Database Interface System      *
*                                     *
*****
1. Log into Digital Display Database System
Q. Quit the program
? █
```

#### 3.) Entering filename of SQLite file

```
*****
*                                     *
*      Digital Display Database Interface System      *
*                                     *
*****
What is the filename of the Digital Display Database: testsql1.sqlite █
```

#### 4.) Main User Menu

```
*****
*                                     *
*      Digital Display Database Interface System      *
*                                     *
*****
1. Display all the digital displays
2. Search digital displays
3. Add a new digital display
4. Edit an existing digital display
5. Delete an existing digital display
Q. Quit and log out of current database
? █
```

5.) Output of the first menu option, “Display all the digital displays”

```
*****
*                                                                 *
*           Digital Display Database Interface System             *
*                                                                 *
*****
*           *           *           *           *           *     *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *           *     *
*****
*       1467367200   *       Random           *       ABC4K32     *
*****
*       3443233432   *       Random           *       ABC4K50     *
*****
*       6083450384   *       Smart             *       ABC4K60     *
*****
*       1696599316   *       Virtue            *       ABC4K60     *
*****
*       2398723709   *       Smart             *       ABC4K32     *
*****
*       3434309093   *       Virtue            *       ABC4K75     *
*****
Press enter to continue
```

6.) Menu for the second menu option, “Search Digital Displays”

```
*****
*                                                                 *
*           Digital Display Database Interface System             *
*                                                                 *
*****
Please select the scheduler system you wish to search for:
1: Random
2: Smart
3: Virtue
? 
```

## 7.) Selecting the Random, Smart and Virtue options as well as an invalid option

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
Please select the scheduler system you with to search for:
1: Random
2: Smart
3: Virtue
? █
```

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *
*****
*   1467367200       *   Random               *   ABC4K32       *
*****
*   3443233432       *   Random               *   ABC4K50       *
*****
Press enter to continue █
```

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *
*****
*   6083450384       *   Smart                 *   ABC4K60       *
*****
*   2398723709       *   Smart                 *   ABC4K32       *
*****
Press enter to continue █
```

```

*****
*
*                               *
*       Digital Display Database Interface System       *
*                               *
*****
*                               *
*       Serial Number:      * Scheduler System:      * Model Number:      *
*                               *                               *
*****
*       1696599316      *      Virtue      *      ABC4K60      *
*****
*       3434309093      *      Virtue      *      ABC4K75      *
*****
Press enter to continue

```

```

*****
*
*                               *
*       Digital Display Database Interface System       *
*                               *
*****
Please select the scheduler system you with to search for:
1: Random
2: Smart
3: Virtue
? w
Invalid entry.
Press enter to continue

```

8.) Menu for the third option, "Add a new digital display". The first value the system asks for is the serial number. It requires a 10-character input.

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*                                     *
*           New Digital Display Insertion                       *
*                                     *
*****

Please enter the digital display's serial number:
?invalid
Please enter a ten character serial number.
Press enter to continue.█
```

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*                                     *
*           New Digital Display Insertion                       *
*                                     *
*****

Please enter the digital display's serial number:
?3464762674█
```

9.) The second value it asks for is the scheduler system.

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*                                     *
*           New Digital Display Insertion                       *
*                                     *
* Serial number: 3464762674                                     *
*                                     *
*****

Please select the digital display's scheduler system:

1: Random
2: Smart
3: Virtue
? 1█
```

10. The third value it prompts for is the model number

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*                                     *
*           New Digital Display Insertion                       *
*                                     *
* Serial number: 3464762674                                     *
* Scheduler system: Random                                     *
*                                     *
*****

Please enter the model number of the digital display:
?
Please enter a valid entry.
Press enter to continue.█
```

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*                                     *
*           New Digital Display Insertion                       *
*                                     *
* Serial number: 3464762674                                     *
* Scheduler system: Random                                     *
*                                     *
*****

Please enter the model number of the digital display:
? ABC4K55█
```

10.) The system then confirms the information given.

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*                                     *
*           New Digital Display Insertion                       *
*                                     *
* Serial number: 3464762674                                     *
* Scheduler system: Random                                     *
* Model number: ABC4K55                                       *
*                                     *
*****

Is this okay?
Y: Press Y to continue.
N: Press N to start over.
? █
```

11.) It then shows the list of digital displays as a verification of the digital display being added.

```
*****
*                                                                 *
*           Digital Display Database Interface System             *
*                                                                 *
*****
*           *           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *           *
*****
*       1467367200   *       Random           *       ABC4K32       *
*****
*       3443233432   *       Random           *       ABC4K50       *
*****
*       6083450384   *       Smart             *       ABC4K60       *
*****
*       1696599316   *       Virtue           *       ABC4K60       *
*****
*       2398723709   *       Smart             *       ABC4K32       *
*****
*       3434309093   *       Virtue           *       ABC4K75       *
*****
*       3464762674   *       Random           *       ABC4K55       *
*****
Press enter to continue
```

12.) The fourth option in the menu is to update a value in an existing value in the database. It first asks you for the serial number of the display you want to update.

```
*****
*                                                                 *
*           Digital Display Database Interface System             *
*                                                                 *
*****
*           *           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *           *
*****
*       1467367200   *       Random           *       ABC4K32       *
*****
*       3443233432   *       Random           *       ABC4K50       *
*****
*       6083450384   *       Smart             *       ABC4K60       *
*****
*       1696599316   *       Virtue           *       ABC4K60       *
*****
*       2398723709   *       Smart             *       ABC4K32       *
*****
*       3434309093   *       Virtue           *       ABC4K75       *
*****
*       3464762674   *       Random           *       ABC4K55       *
*****
Enter the serial number of the digital display you want to update.
? 6083450384
```

```

*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*           *           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *           *
*****
*   6083450384   *   Smart   *   ABC4K60   *
*****
Please select what you would like to update
1: Serial Number
2: Scheduler System
3: Model Number
Q: Cancel editing and return to menu
? 5
Invalid entry.
Press enter to continue

```

```

*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
What would you like the new value for Serial Number to be?
? 6543487654

```

13.) The system then asks the user to confirm the serial number entered.

```

*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
Is the value 6543487654 for the field Serial Number okay?
Y: Press Y to continue.
N: Press N to reenter the serial number.
Q: Press Q to quit and return to the menu
? 5
Please enter a valid entry.
Press enter to continue

```

```

*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
Is the value 6543487654 for the field Serial Number okay?
Y: Press Y to continue.
N: Press N to reenter the serial number.
Q: Press Q to quit and return to the menu
? y

```



14.) The system then displays a list of the displays to verify the change has been made.

```
*****
*
*           Digital Display Database Interface System           *
*
*****
*           *           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *           *
*****
*   1467367200   *   Random   *   ABC4K32   *
*****
*   3443233432   *   Random   *   ABC4K50   *
*****
*   6543487654   *   Smart   *   ABC4K60   *
*****
*   1696599316   *   Virtue   *   ABC4K60   *
*****
*   2398723709   *   Smart   *   ABC4K32   *
*****
*   3434309093   *   Virtue   *   ABC4K75   *
*****
*   3464762674   *   Random   *   ABC4K55   *
*****
Press enter to continue
```

15.) Repeat the process to update the scheduler system.

```
*****
*
*           Digital Display Database Interface System           *
*
*****
*           *           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *           *
*****
*   1467367200   *   Random   *   ABC4K32   *
*****
*   3443233432   *   Random   *   ABC4K50   *
*****
*   6543487654   *   Smart   *   ABC4K60   *
*****
*   1696599316   *   Virtue   *   ABC4K60   *
*****
*   2398723709   *   Smart   *   ABC4K32   *
*****
*   3434309093   *   Virtue   *   ABC4K75   *
*****
*   3464762674   *   Random   *   ABC4K55   *
*****
Enter the serial number of the digital display you want to update.
? 1696599316
```

```

*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
Please select the digital display's scheduler system:

1: Random
2: Smart
3: Virtue
? 2

```

```

*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
Please select the digital display's scheduler system:

1: Random
2: Smart
3: Virtue
? 2
Is the value Smart for the field Scheduler System okay?
Y: Press Y to continue.
N: Press N to choose again.
Q: Press Q to quit and return to the menu
? y

```

```

*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*       Serial Number:      * Scheduler System:      * Model Number:      *
*       *                   * *                      * *                      *
*****
*       1467367200          *       Random           *       ABC4K32          *
*****
*       3443233432          *       Random           *       ABC4K50          *
*****
*       6543487654          *       Smart            *       ABC4K60          *
*****
*       1696599316          *       Smart            *       ABC4K60          *
*****
*       2398723709          *       Smart            *       ABC4K32          *
*****
*       3434309093          *       Virtue           *       ABC4K75          *
*****
*       3464762674          *       Random           *       ABC4K55          *
*****
Press enter to continue

```

16.) Repeat the process again for the model number.

```
*****
*
*           Digital Display Database Interface System           *
*
*****
*           *           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *           *
*****
*   1467367200      *   Random      *   ABC4K32      *
*****
*   3443233432      *   Random      *   ABC4K50      *
*****
*   6543487654      *   Smart      *   ABC4K60      *
*****
*   1696599316      *   Smart      *   ABC4K60      *
*****
*   2398723709      *   Smart      *   ABC4K32      *
*****
*   3434309093      *   Virtue      *   ABC4K75      *
*****
*   3464762674      *   Random      *   ABC4K55      *
*****
Enter the serial number of the digital display you want to update.
? 1467367200
```

```
Apple iTerm2  Shell  Edit  View  Session  Scripts  Profiles  Toolbelt  Window  Help
*****
*
*           Digital Display Database Interface System           *
*
*****
*           *           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *           *
*****
*   1467367200      *   Random      *   ABC4K32      *
*****
Please select what you would like to update
1: Serial Number
2: Scheduler System
3: Model Number
Q: Cancel editing and return to menu
? 3
```

```
*****
*
*           Digital Display Database Interface System           *
*
*****
What would you like the new value for Model Number to be?
? ABC4K70
```

```
*****
*
*           Digital Display Database Interface System           *
*
*****

What would you like the new value for Model Number to be?
? ABC4K70
Is the value ABC4K70 for the field Model Number okay?
Y: Press Y to continue.
N: Press N to reenter the model number.
Q: Press Q to quit and return to the menu
? Y
```

```
*****
*
*           Digital Display Database Interface System           *
*
*****
*           *           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *           *
*****
*   1467367200      *   Random      *   ABC4K70      *
*****
*   3443233432      *   Random      *   ABC4K50      *
*****
*   6543487654      *   Smart      *   ABC4K60      *
*****
*   1696599316      *   Smart      *   ABC4K60      *
*****
*   2398723709      *   Smart      *   ABC4K32      *
*****
*   3434309093      *   Virtue      *   ABC4K75      *
*****
*   3464762674      *   Random      *   ABC4K55      *
*****
Press enter to continue
```

17.) The fifth menu option is to delete a digital display from the database.

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*       *       *       *       *       *       *       *       *
*   Serial Number:   Scheduler System:   Model Number:   *
*       *       *       *       *       *       *       *       *
*****
*       1467367200   *       Random   *       ABC4K70   *
*****
*       3443233432   *       Random   *       ABC4K50   *
*****
*       6543487654   *       Smart    *       ABC4K60   *
*****
*       1696599316   *       Smart    *       ABC4K60   *
*****
*       2398723709   *       Smart    *       ABC4K32   *
*****
*       3434309093   *       Virtue   *       ABC4K75   *
*****
*       3464762674   *       Random   *       ABC4K55   *
*****
Enter the serial number of the digital display you want to delete.
? 2398723709
```

18.) The system then displays the list of digital displays to verify that the display has been deleted.

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
*       *       *       *       *       *       *       *       *
*   Serial Number:   Scheduler System:   Model Number:   *
*       *       *       *       *       *       *       *       *
*****
*       1467367200   *       Random   *       ABC4K70   *
*****
*       3443233432   *       Random   *       ABC4K50   *
*****
*       6543487654   *       Smart    *       ABC4K60   *
*****
*       1696599316   *       Smart    *       ABC4K60   *
*****
*       3434309093   *       Virtue   *       ABC4K75   *
*****
*       3464762674   *       Random   *       ABC4K55   *
*****
Press enter to continue
```

19.) The final menu option is to log out. This allows you to connect to another database.

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
1. Display all the digital displays
2. Search digital displays
3. Add a new digital display
4. Edit an exisiting digital display
5. Delete and existing digital display
Q. Quit and log out of current database
? q
```

```
*****
*                                     *
*           Digital Display Database Interface System           *
*                                     *
*****
1. Log into Digital Display Database System
Q. Quit the program
? 1
```

```
*****
*                                                                 *
*           Digital Display Database Interface System           *
*                                                                 *
*****
*           *           *           *           *           *
*   Serial Number:   *   Scheduler System:   *   Model Number:   *
*           *           *           *           *           *
*****
*       1467367200   *           Smart   *       ABC4K32   *
*****
*       5265360807   *           Random   *       ABC4K50   *
*****
*       6083450383   *           Smart   *       ABC4K60   *
*****
*       9154677989   *           Virtue   *       ABC4K40   *
*****
*       1696599316   *           Random   *       ABC4K55   *
*****
*       3765433212   *           Smart   *       ABC4K50   *
*****
*       4678754345   *           Virtue   *       ABC504K   *
*****
*       4345432343   *           Virtue   *       ABC4K55   *
*****
*       3675423567   *           Random   *       ABC4K55   *
*****
*       2345623211   *           Smart   *       ABC4K55   *
*****
*       4567823654   *           Smart   *       ABC4K55   *
*****
*       3459423213   *           Smart   *       ABC4K55   *
*****
*       3453293456   *           Virtue   *       ABC4K55   *
*****
*       3453256787   *           Random   *       ABC4K55   *
*****
*       3765439876   *           Smart   *       ABC4K60   *
*****
*       3453215678   *           Virtue   *       ABC4K55   *
*****
*       3786545876   *           Smart   *       ABC4K50   *
*****
Press enter to continue
```

```
*****
*
*           Digital Display Database Interface System           *
*
*****
What is the filename of the Digital Display Database: testsql2.sqlite
```



```

*****
*                                                                 *
*           Digital Display Database Interface System           *
*                                                                 *
*****
*           *           *           *           *           *   *
*   Serial Number: * Scheduler System: * Model Number: *   *
*           *           *           *           *           *   *
*****
*   1467367200 * Smart * ABC4K32 *   *
*****
*   5265360807 * Random * ABC4K50 *   *
*****
*   6083450383 * Smart * ABC4K60 *   *
*****
*   9154677989 * Virtue * ABC4K40 *   *
*****
*   1696599316 * Random * ABC4K55 *   *
*****
*   3765433212 * Smart * ABC4K50 *   *
*****
*   4678754345 * Virtue * ABC504K *   *
*****
*   4345432343 * Virtue * ABC4K55 *   *
*****
*   3675423567 * Random * ABC4K55 *   *
*****
*   2345623211 * Smart * ABC4K55 *   *
*****
*   4567823654 * Smart * ABC4K55 *   *
*****
*   3459423213 * Smart * ABC4K55 *   *
*****
*   3453293456 * Virtue * ABC4K55 *   *
*****
*   3453256787 * Random * ABC4K55 *   *
*****
*   3765439876 * Smart * ABC4K60 *   *
*****
*   3453215678 * Virtue * ABC4K55 *   *
*****
*   3786545876 * Smart * ABC4K50 *   *
*****
Press enter to continue

```