Written Explanation of Program:
When the program starts up, it connects to the database (and quits if there was an error). Once connected, it goes in a while loop indefinitely and then provides the user with 6 options:

1. List all organizations and their corresponding leaders.");
2. List all student's and their Advisor's name.");
3. Remove a student from a class.");
4. Alter all faculty's salary by a certain percentage.");
5. Add a student to the database.");
6. Quit application.

The user can select one which then will execute the corresponding numbered function with the corresponding query, with some options asking for user input. Once they have completed that option, it returns to the list and asks for input again. The user can select the last option to close the program.

Screenshot #1- Select all of the organizations and their corresponding leaders if they have any. Here's the bottom of the console showing partial results (since they don't all fit on one page).

```
Organization 'Hhomwq' with leader 'C Bz'
Organization 'Orw' with leader 'null'
Organization 'Egnsiussyo' with leader 'null'
Organization 'Aikcwezww' with leader 'null'
Organization 'Rpieijsn' with leader 'Nl Ttdmqfv'
Organization 'Rfeiyaklqtoqbldvoi' with leader 'null'
Organization 'Gcdyxtqlwkkda' with leader 'null'
Organization 'Luuccdzycrwn' with leader 'null'
Organization 'Wcsgofm' with leader 'null'
Organization 'Texas Aggie Traditions' with leader 'Jennifer Welch'
Organization 'Aggie Swamp' with leader 'James Caverlee'
Organization 'Math Nerds' with leader 'Adam Thomas'
Organization 'Ultimate Frisbee' with leader 'John Keyser'
Organization 'Texas A&M Swimming' with leader 'Radu Stoleru'
Organization 'Ping Pong' with leader 'null'
1. List all organizations and their corresponding leaders.
2. List all student's and their Advisor's name.
3. Remove a student from a class.
4. Alter all faculty's salary by a certain percentage.
5. Add a student to the database.
6. Quit application.
Please enter an option:
```

Screenshot #2- Delete a student from an organization. The screenshot below shows the line the user inputed the student's UIN and a partial list of the resulting student's in the group (with said previous user not in it).

```
Type in the student UIN that you want to delete from the orgnanization: 18192
18192
Creating the statement...

Below is the organization you initally selected and the current members.
Student = Pp Vwi, UIN = 11471
Student = Aw Zokksdkakj, UIN = 11838
Student = Jx Nwhxnjthsh, UIN = 11934
Student = Nix Tcgl, UIN = 12318
Student = Sx Crlrl, UIN = 12361
Student = Wnljhx Qg, UIN = 12399
Student = R Ikqmuqui, UIN = 12451
Student = B Xstp, UIN = 12841
Student = N Yit, UIN = 13086
Student = Dlcuo Nv, UIN = 13097
Student = Enwpa Djieg, UIN = 13151
Student = K Bloytnc, UIN = 13596
Student = Twnvm Qbohcrd, UIN = 14316
Student = Slti W, UIN = 14344
Student = Xytx Mdrange, UIN = 14467
Student = Xxtd Rnszjzmop, UIN = 14991
```

Screenshot #3- Alter salary of one, some, or all faculty

This function allows the user to either increase or decrease the salary of one faculty member, a range of faculty, or all faculty in the university by a percentage. The user chooses which type of change to make, specifies which faculty to apply the change to, and the percentage by which to change the value.

Before:

+ Options

FacultyID	Name	Salary
10000	Sdjelu Dciwncwzfo	64157
10001	Xbpksv Asrzx	24721
10002	Bz Akw	28372
10003	Zdg Xvsw	29526
10004	A Ymooibnwew	27482
10005	N Lxcgsiyha	92113
10006	Amsx Km	63530
10007	Caane Zmzvfue	92825
10008	Yxovk Vxi	67475
10009	Bkwlfv Ax	58901
10010	Fpaq Q	92084
10011	Kz Eqcui	77649
10012	Vwvm Ndwuhbvo	60479
10013	Ayhete Pbwii	69450
10014	Mrzlm Bcatbjkgje	62782
10015	Za Rfyb	54048
10016	Ivfgj Af	81891
10017	Ki Ynrter	92764
10018	Fv Vteuf	63611

Console input - I'll alter the salary of a range of faculty, since that is the least trivial. How about id#'s 10001 - 10004, they have very low salary right now:

```
Options:
        1:  Alter salary of a specific faculty id
        2:  Alter salary of a specific range of faculty ids
        3:  Give a sweeping raise/cut to all faculty
2
Enter lower bounding ID
10001
Enter upper bounding ID
10004
Enter percentage change in salary
100%
4 row(s) modified
```

After:

+ Options

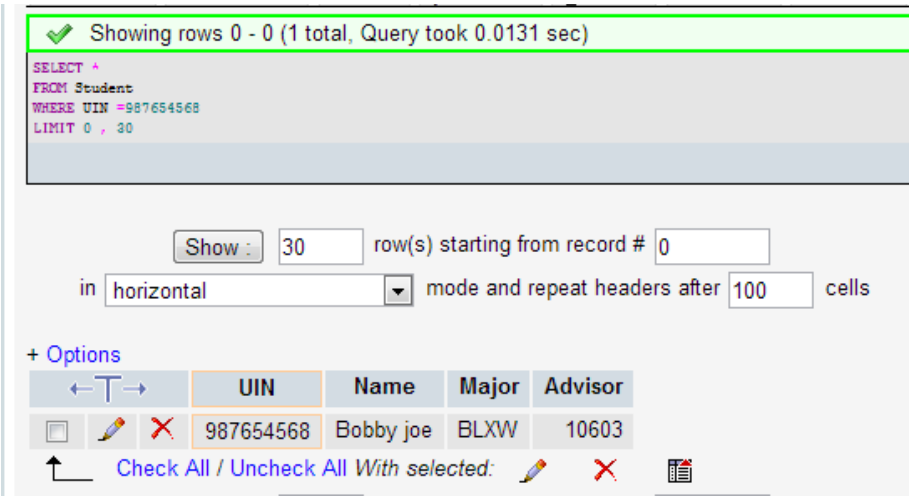
	FacultyID	Name	Salary
	10000	Sdjelu Dciwncwzfo	64157
	10001	Xbpksv Asrzx	49442
	10002	Bz Akw	56744
	10003	Zdg Xvsw	59052
	10004	A Ymooibnwew	54964
	10005	N Lxcgsiyha	92113
	10006	Amsx Km	63530
	10007	Caane Zmzvfue	92825
	10008	Yxovk Vxi	67475
	10009	Bkwlfv Ax	58901
	10010	Fpaq Q	92084
	10011	Kz Eqcui	77649
	10012	Vwvm Ndwuhbvo	60479
	10013	Ayhete Pbwii	69450
	10014	Mrzlm Bcatbjkgje	62782
	10015	Za Rfyb	54048

Screenshot #4- Alek's Insert a student into the university

This function requests from the user the name of the student, and their desired major. From this, it queries the Student table to find the largest UIN, increments it by 1, and assignes that to the student. It then finds an advisor for the student by looking through the list of courses taught to find a professor who teaches a class in the same department as the student's major. That facultyID is also assigned to the student, and then a query is made to find the name of the faculty who is associated with the ID, because its always nice to know your advisor's name, even if the database schema doesn't require it. Finally, the student is inserted into the Student table.

```
Database connection established
Enter the name of the student you wish to add
Bobby joe
What is the student's major?
BLXW
Bobby joe has been assigned UIN 987654568
Bobby joe has been assignedXrxymm Eztmjivzv as an advisor
Database connection terminated
```

Output:



Screenshot #5- Select the list of students and their advisors names (not all since they won't all fit on the screen):

```
Mfrwh Sda's advisor is 'J Pmtorvhwdt'
Hya Oprbbxpcs's advisor is 'Yxovk Vxi'
Odqqc I's advisor is 'Jxivkz Jfpffk'
Yvzy Dicvdi's advisor is 'Uam Dzgya'
Hmedbn Eyzly's advisor is 'Cot Seuex'
P Ybfwdvsmu's advisor is 'Stgai S'
Gvysn Dchmtjek's advisor is 'Kub Xauc'
Ben Beadle's advisor is 'James Caverlee'
Ana Parra's advisor is 'Radu Stoleru'
Alek Poteet's advisor is 'Adam Thomas'
Amanda Cofsky's advisor is 'John Keyser'
Kimberly Lewis's advisor is 'James Caverlee'
Mathew McFadden's advisor is 'Jennifer Welch'
Patrick Cumming's advisor is 'Radu Stoleru'
Paul Hagseth's advisor is 'James Caverlee'
Blake Pavel's advisor is 'Adam Thomas'
Nick Melynk's advisor is 'Radu Stoleru'
Bobby joe's advisor is 'Xrxymm Eztmjivzv'
1. List all organizations and their corresponding leaders.
2. List all student's and their Advisor's name.
3. Remove a student from a class.
4. Alter all faculty's salary by a certain percentage.
5. Add a student to the database.
6. Quit application.
Please enter an option:
```

Screenshot #6- Quitting the program

```
1. List all organizations and their corresponding leaders.
2. List all student's and their Advisor's name.
3. Remove a student from a class.
4. Alter all faculty's salary by a certain percentage.
5. Add a student to the database.
6. Quit application.
Please enter an option: 6
Thanks for using our program! Goodbye!
```