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Assignment 2

CSCE5350

Spring 2022

- Make sure the University database is built and the data set is loaded into the database before running the code.
- If you didn't install python mysql connector using mysql workbench, run the command below to do so.

```
pip install mysql-connector
```

- In the method below, change the database connection details to match your database.

```
def create_connection():  
    connection = connector.connect(  
        host="localhost", user="root",  
        passwd="root", db="university"  
    )  
  
    return connection
```

- Run the command below to run the code.

```
python assignment_2.py
```

- When you run the command above, it gives you the following four options.
- Choose option 1 from the menu to see the data from the table you provided.

```
$ python assignment_2.py  
*****  
UNIVERSITY DATABASE  
*****  
  
1. Display Data  
2. Insert Data  
3. Modify Budget  
4. Delete Department  
0. Exit  
  
Select and option to perform: [ ]
```

- After selecting option 1, you'll be prompted to provide the table name for which you want data to be displayed; type the table name and hit enter.

```
*****  
DISPLAY DATA  
*****  
Enter the table name you want to display data: department  


| dept_name  | building | budget    |
|------------|----------|-----------|
| Biology    | Watson   | 90000.00  |
| Comp. Sci. | Taylor   | 100000.00 |
| dads       | dsadsa   | 222.00    |
| Elec. Eng. | Taylor   | 85000.00  |
| Finance    | Painter  | 232232.00 |
| History    | Painter  | 50000.00  |
| Music      | Packard  | 80000.00  |
| Physics    | Watson   | 70000.00  |

  
Press Enter to go to main menu...[ ]
```

- From the main menu, choose Option 2, to insert data into the table you specified. Option 2 prompts you for the table name into which you want to insert data. Enter the table name and click enter; it will then prompt you to enter the column values one by one. After you've entered each value, hit enter.

```

*****
                        INSERT DATA
*****
Enter the table name you want to insert data: department

Enter the values for each column one by one, after entering the value press enter...

dept_name: CSCE
building: NTDP
budget: 150000

Record inserted successfully...

Press Enter to go to main menu...

```

- To update the budget in the department table, go to the main menu and select option 3. After selecting option 3, it prompts you to input the department name, which it then displays the existing results before prompting you to enter the new budget value you want to change.

```

*****
                        MODIFY BUDGET
*****
Enter the department name you want to update: finance
Results from the database...

      dept_name      building      budget
      Finance      Painter      232232.00

Enter the budget value you want to update: 120000

Record updated successfully...

Press Enter to go to main menu...

```

- From the main menu, select option 4 to remove a department from the department table. After selecting option 4, it will prompt you to enter the department name you wish to delete, return any existing results to the appropriate department, and then ask for confirmation before deleting the item from the database.

```

*****
                        DELETE DEPARTMENT
*****
Enter the department name you want to delete: finance
Results from the database...

      dept_name      building      budget
      Finance      Painter      120000.00

Are you sure (Y/N): Y

Record deleted successfully...

Press Enter to go to main menu...

```