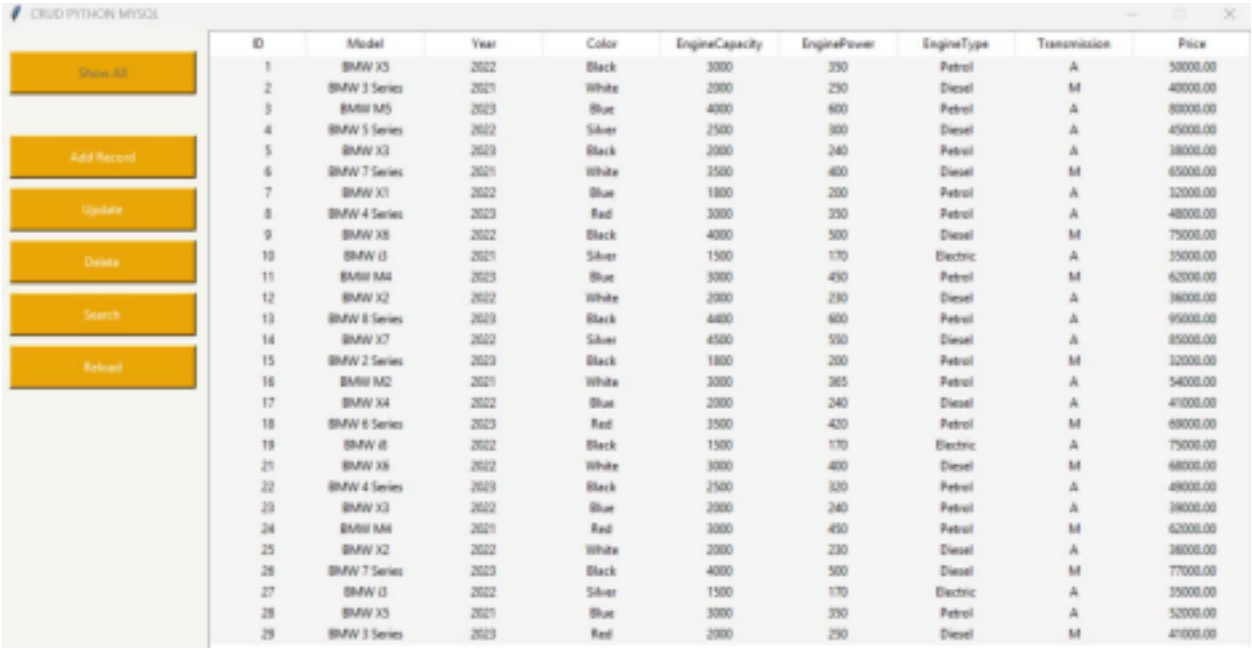
Name: Cuyugan, Karl Francis P.
Section: BSCS 203

Finals Lab Task 7.
MySQL CRUD Operations in Python Using GUI Tkinter

Step 1. Make sure you install the necessary prerequisites:

a. **MySQL-Connector** in Pycharm
b. Activate xampp (Apache and Mysql)
c. Create a database named: cars
d. Import the sql file (cars.sql) to load the tables and records

Step 2. See the GUI Design of the Demo interface



Step 3. Try the code below:

Get the copy of the following files and load in pycharm:

Link here:

https://drive.google.com/drive/folders/1e6Eh55qLAwepf0A_I8GKh70elW6jAxJj?usp=sharing

1. connectDb.py
2. main.py
3. window.py

Step 4. Run the program main.py (and test all the functions (CRUD)) it should be free from errors. Make a screenshot of your output as proof that you were able to configure the program properly

Step 5. Add the ff: Functions in the GUI. *Choose 1 only*

1. **Insert a Label and Text widget below the reload button** that will display the ff:

infos: a. *the total Number of Records*,

Name: Cuyugan, Karl Francis P.

Section: BSCS 203

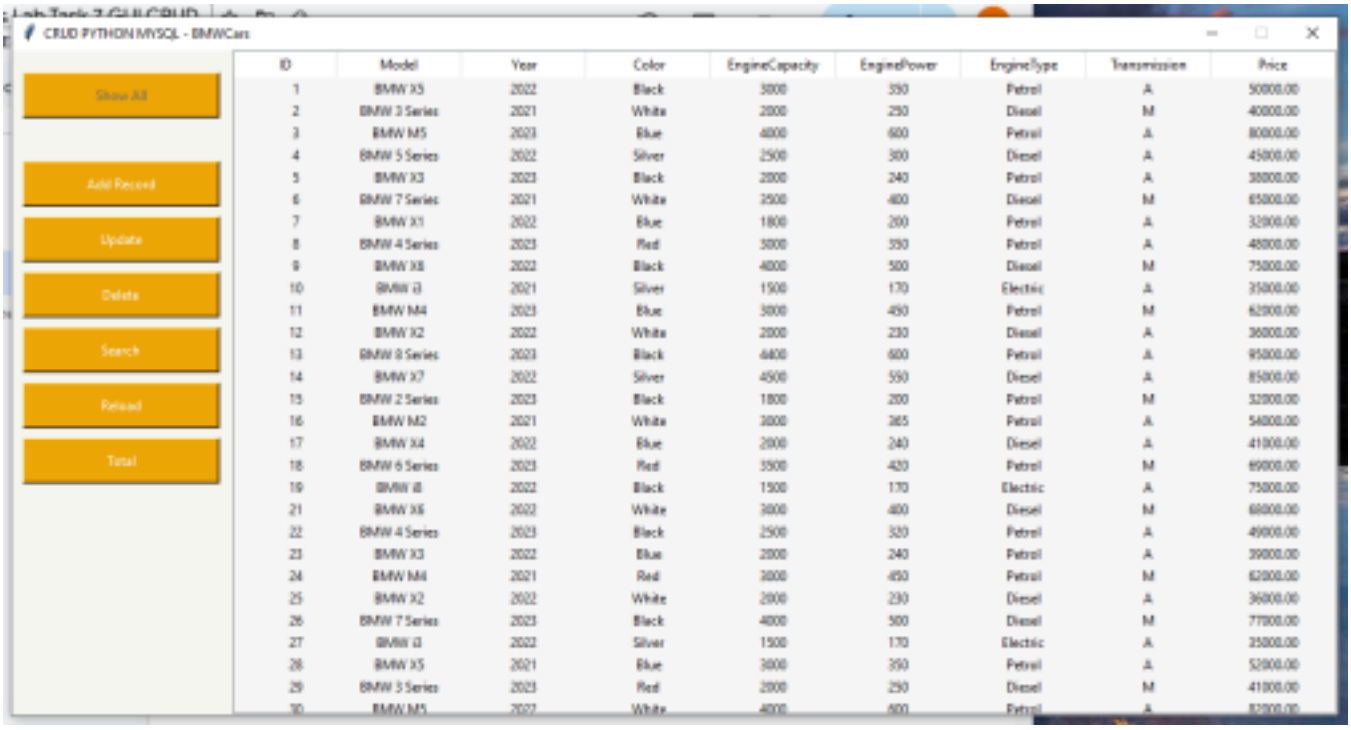
b. *Car Model* with the Highest Price,

c. Total Number of Manual

d. *Total number of and Automatic Cars*

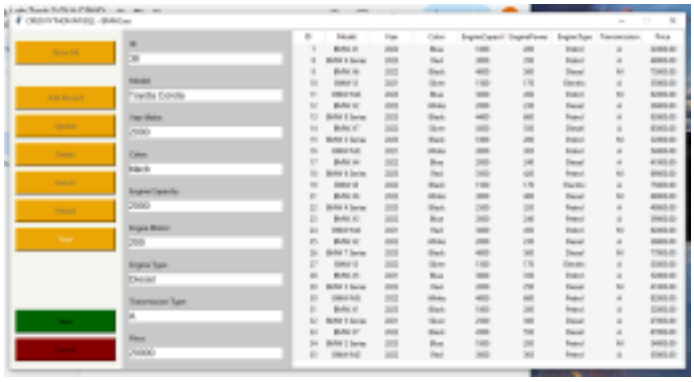
RUNNING GUI

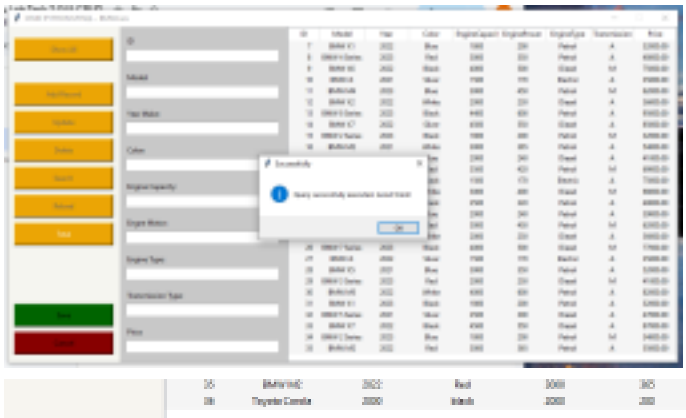
SHOW ALL BUTTON



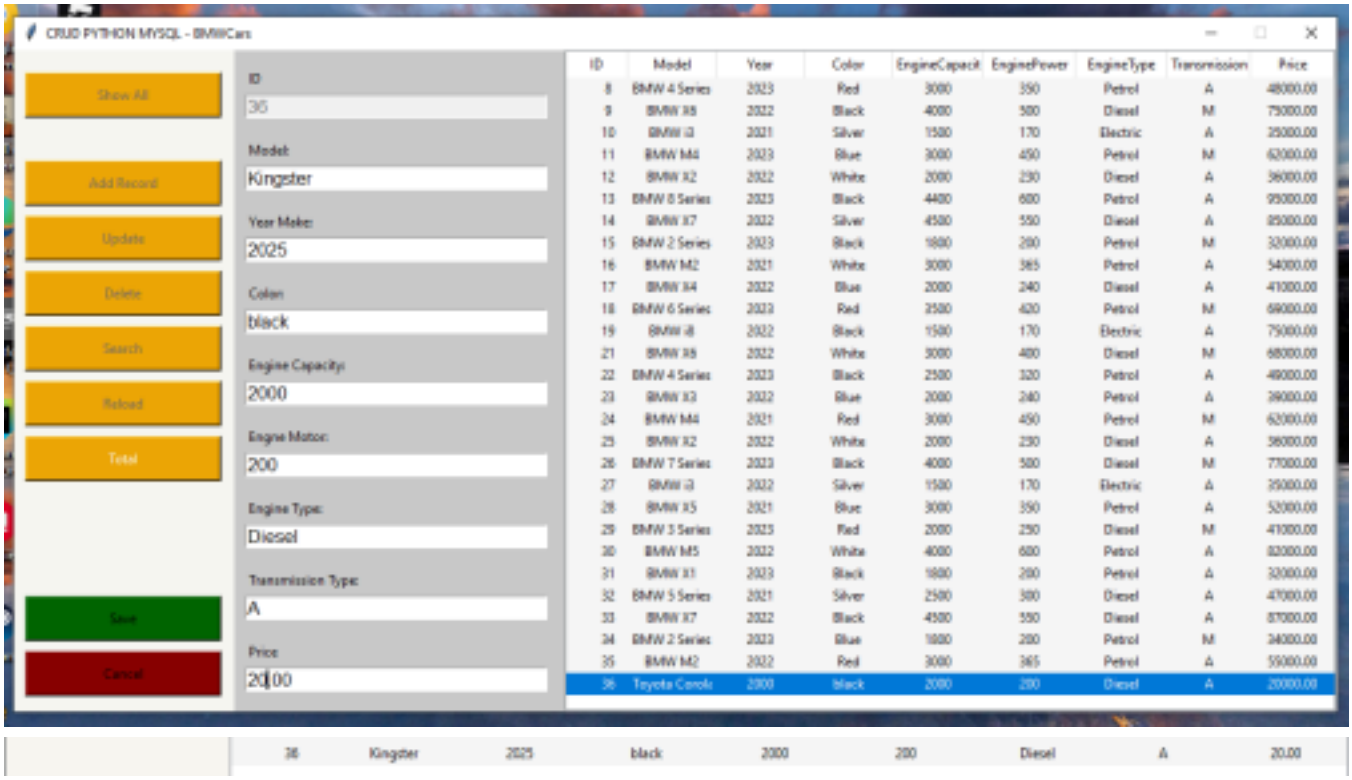
Name: Cuyugan, Karl Francis P.
Section: BSCS 203

ADD RECORD



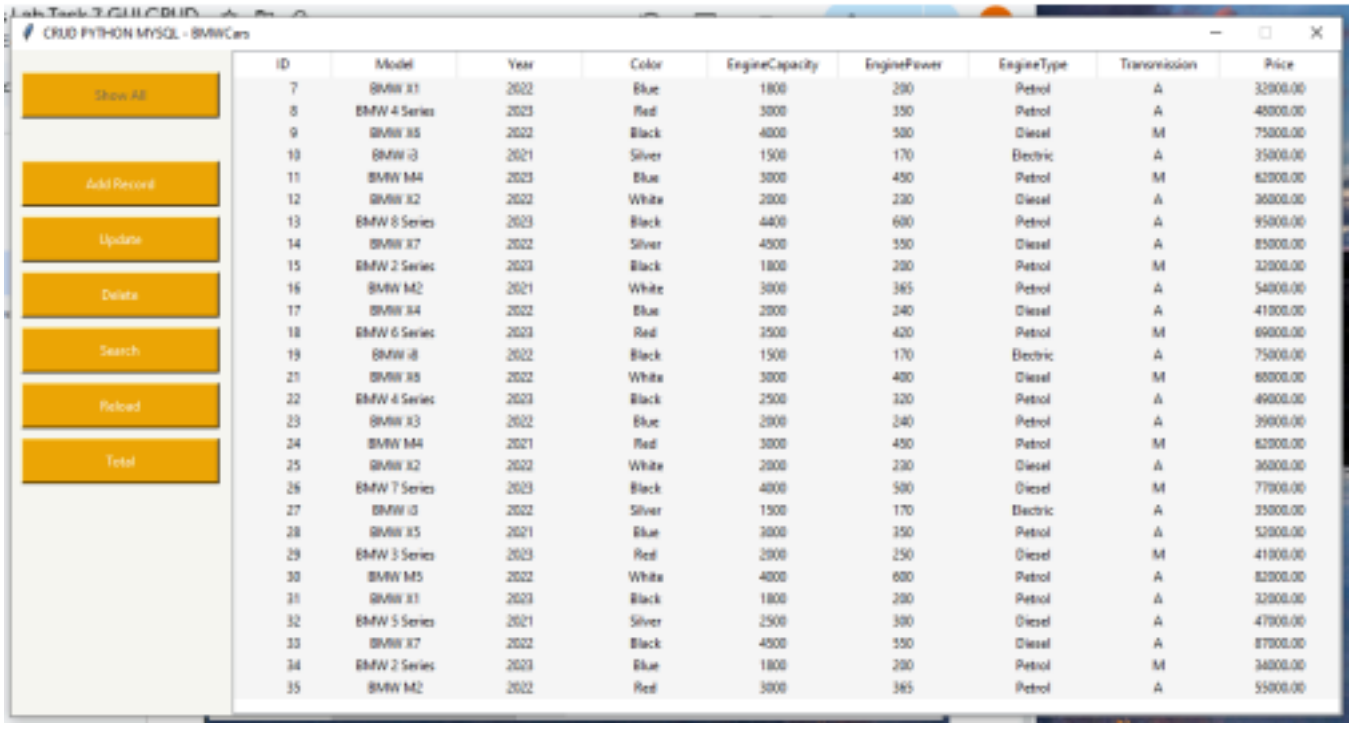


UPDATE

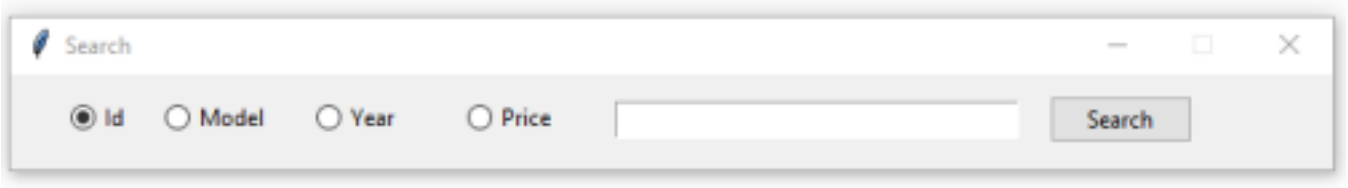


Name: Cuyugan, Karl Francis P.
Section: BSCS 203

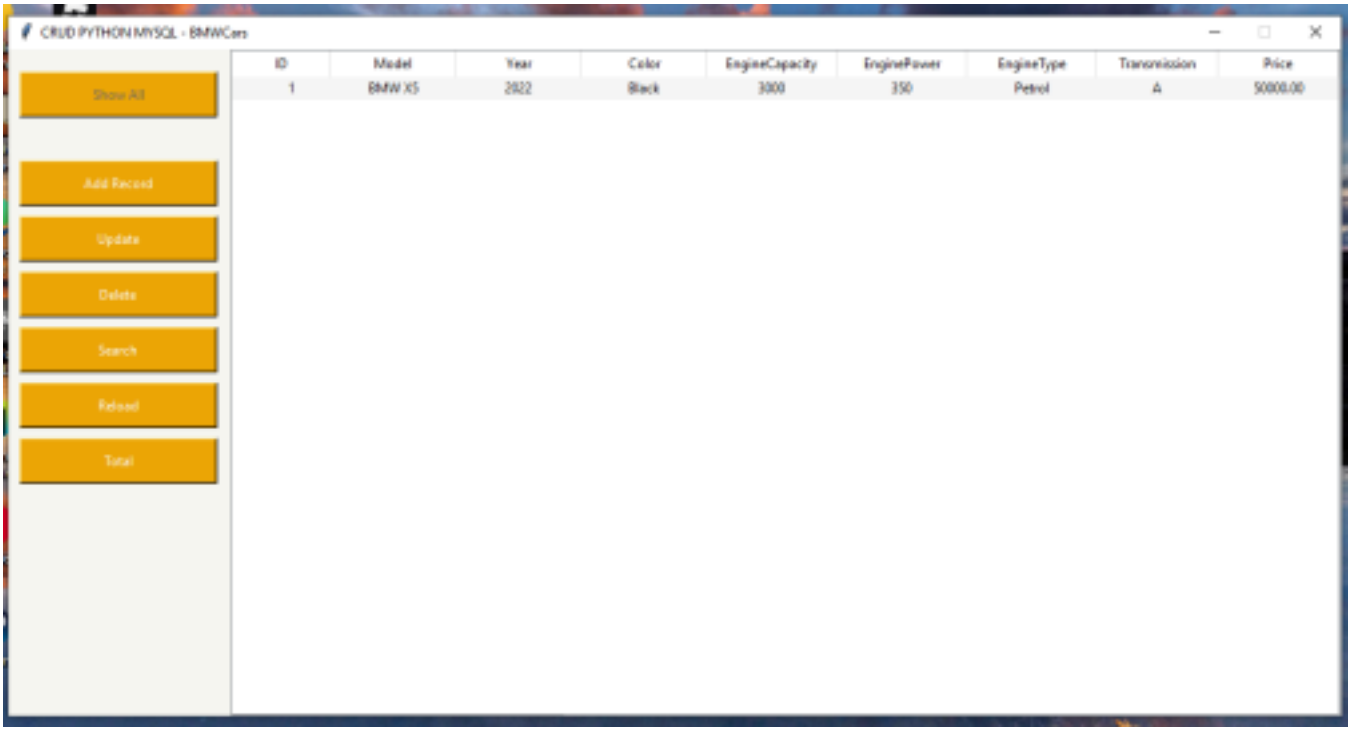
DELETE



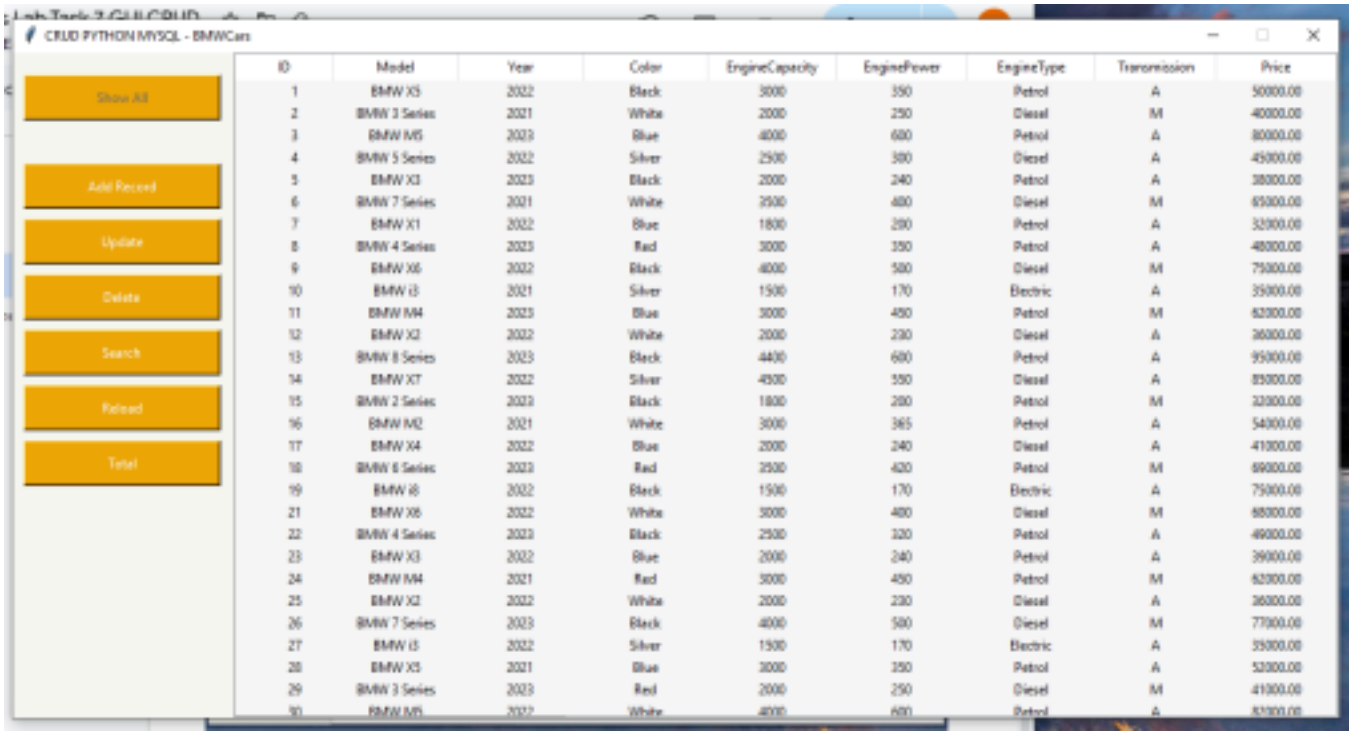
SEARCH



Name: Cuyugan, Karl Francis P.
Section: BSCS 203



RELOAD



TOTAL

```
self.buttonTotal = tk.Button(frame1, text="Total", command=self.totsRec,
                             width=24, height=2, background="#eba607", foreground="white")
self.buttonTotal.place(x=10, y=350)
```

```
def count_records(self, table):
    sql = f"SELECT COUNT(*) FROM {table}"
```

Name: Cuyugan, Karl Francis P.

Section: BSCS 203

```
    cursor = self.connectDB.cursor()
    try:
        cursor.execute(sql)
        result = cursor.fetchone()
        return result[0]
    except mysql.connector.Error as error:
        print("Error executing count query:", error)
```

```
def totsRec(self):
    self.cnn.connect()
    total = self.cnn.count_records("car")
    self.cnn.disconnect()
    messagebox.showinfo("Total Records", f"Total number of records: {total}")
```