UNIVERSITI TEKNOLOGI MARA

KEDAH BRANCH

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN INFORMATICS LIBRARY (IM144)

IML208: PROGRAMMING FOR LIBRARIES

INDIVIDUAL PROJECT: DATA ENTRY FOR MYSQL DATABASE FLORIST SHOP

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SUBMISSION DATE: WEEK 12

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Furthermore, million thanks also I wish to all my classmates because they also help me by giving ideas and helps so that I can improve my own assignment. Therefore, I would like to thank my family because of their support, care and helps me for this study. Hope that all the afford will give a lot of benefits to me. Nobody has been more important to me in the pursuit of this project than the members of my family.

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1.0 INTRODUCTION

In this individual project, I made a flower shop it is call Florist Shop database. This database may have benefit for the owner shop because it can help streamline operations, improve customer service, and enhance it efficiently. A database can help manage the shop inventory efficiently to allow the business to keep track of the types and quantities of flower or products in stock without running out of items or overstocking. Additionally, it helps for order processing by storing order details, customer information, and delivery preferences. It is enables to quickly and accurately fulfilling customer orders, track order statuses, and also manage deliveries easily without any complain.

Analytics and reporting play a pivotal role in enhancing intelligence and informed decision-making within the flower shop. They involve the systematic collection such as captures transactional data related to sales about the product sold and purchase amount. Also, the inventory data is collected include quantities of flowers and customer data such as purchase history and contact details are stored. By analysing sales data, it can highlight the performance of specific data and helps the owner to understand what items are good and which may need adjustment in marketing and pricing.

The reports will consolidate and present relevant information and can be customized based on the specific needs of the shop, to the daily sales, monthly inventory or customer purchase history. It can include the key performance indicators (KPIs) that measure the performances against predefined benchmarks.

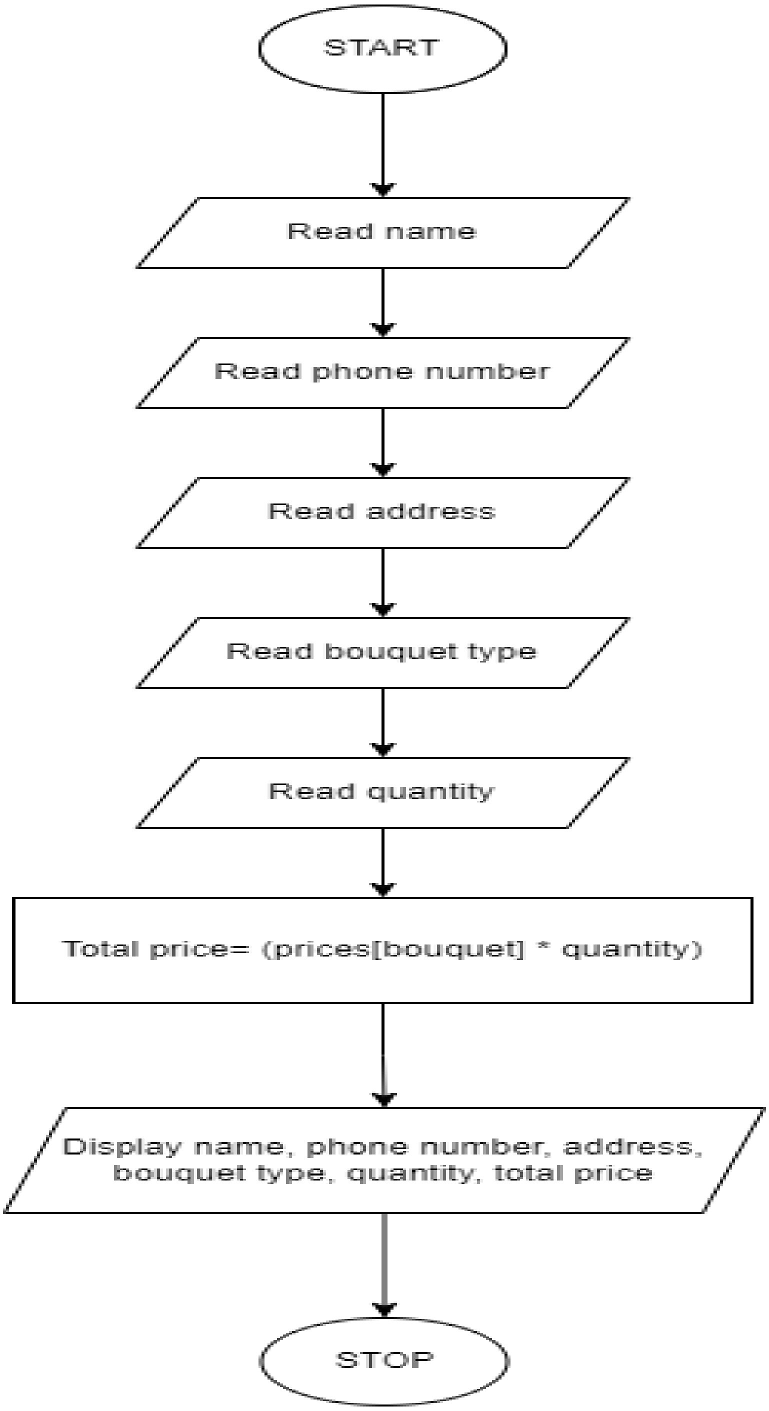
A database can support the integration of an e-commerce platform to allows customers to browse products, place orders online, and facilitates a connection between the online and offline platform. The record can maintain accurate and compliance and it ensures the flower shop can easily retrieve information when needed and stay organized in accordance with legal requirements.

Hence, the application as graphical user interfaces (GUI) are used to make it user-friendly to input information. It is helps for customer to entering data for the first time without any confusing to involves the process of adding or updating information.

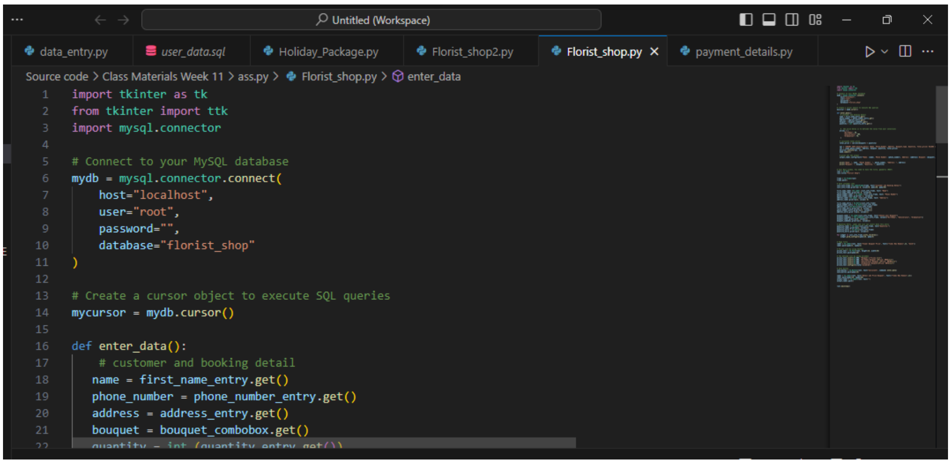
In summary, a well-designed database will help to enhance the efficiency and effectiveness of a flower shop’s operation, from how to manage inventory data to improving customer relationships and supportive business growth.

2.0 FLOW CHART

The customer must put the name, phone number address, choose the bouquet and put the quantity to calculate and get the total price and will display with the details.

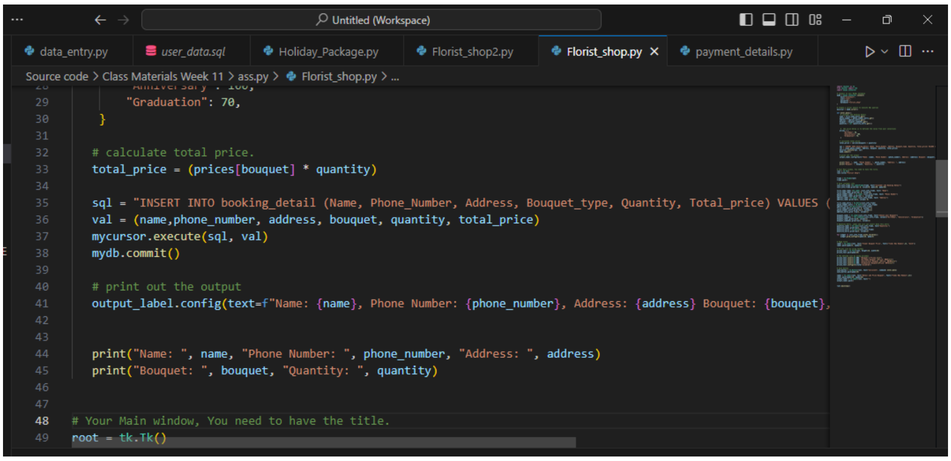

START
Read name
Read phone number
Read address
Read bouquet type
Read quantity
Total price= (prices[bouquet] * quantity)
Display name, phone number, address, bouquet type, quantity, total price
STOP

3.0 CODING



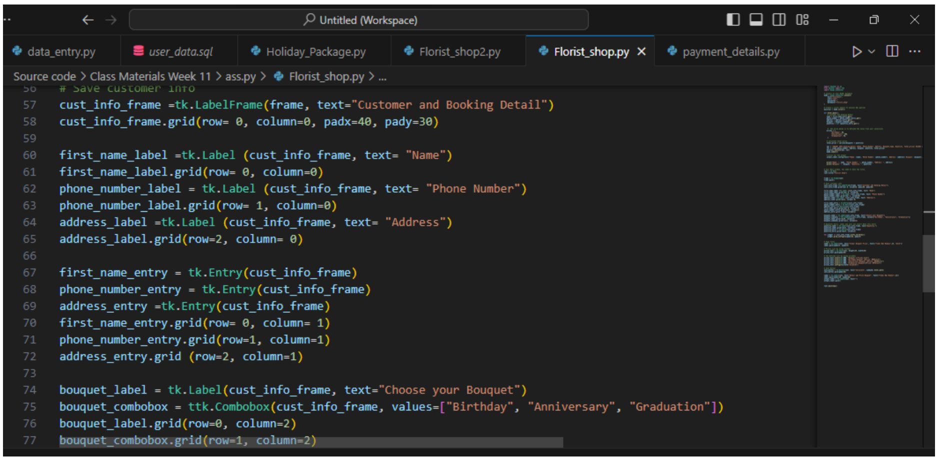
```python
import tkinter as tk
from tkinter import ttk
import mysql.connector

# Connect to your MySQL database
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="florist_shop"
)

# Create a cursor object to execute SQL queries
mycursor = mydb.cursor()

def enter_data():
    # customer and booking detail
   name = first_name_entry.get()
   phone_number = phone_number_entry.get()
   address = address_entry.get()
   bouquet = bouquet_combobox.get()
   quantity = int (quantity_entry.get())
```

Figure 1 How to connecting python code with SQL Database



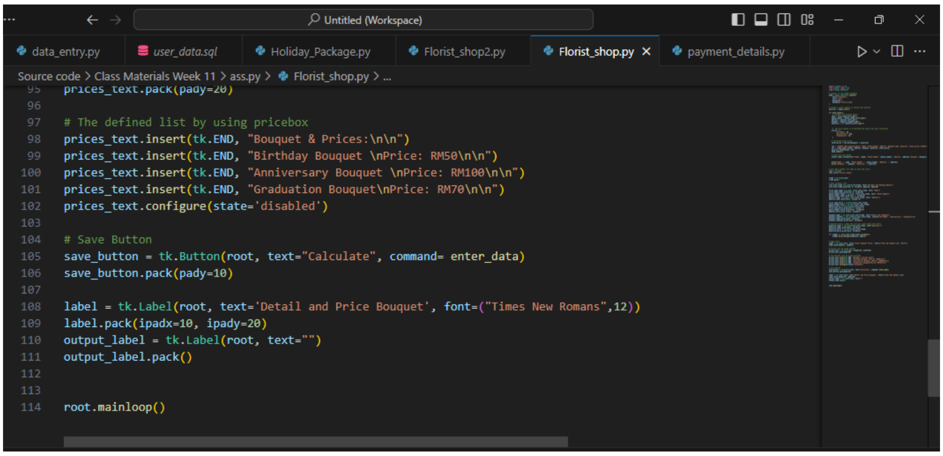
```python
        "Anniversary": 100,
        "Graduation": 70,
    }

   # calculate total price.
   total_price = (prices[bouquet] * quantity)

   sql = "INSERT INTO booking_detail (Name, Phone_Number, Address, Bouquet_type, Quantity, Total_price) VALUES (
   val = (name,phone_number, address, bouquet, quantity, total_price)
   mycursor.execute(sql, val)
   mydb.commit()

   # print out the output
   output_label.config(text=f"Name: {name}, Phone Number: {phone_number}, Address: {address} Bouquet: {bouquet},


   print("Name: ", name, "Phone Number: ", phone_number, "Address: ", address)
   print("Bouquet: ", bouquet, "Quantity: ", quantity)


# Your Main window, You need to have the title.
root = tk.Tk()
```

Figure 2 Calculation to the database



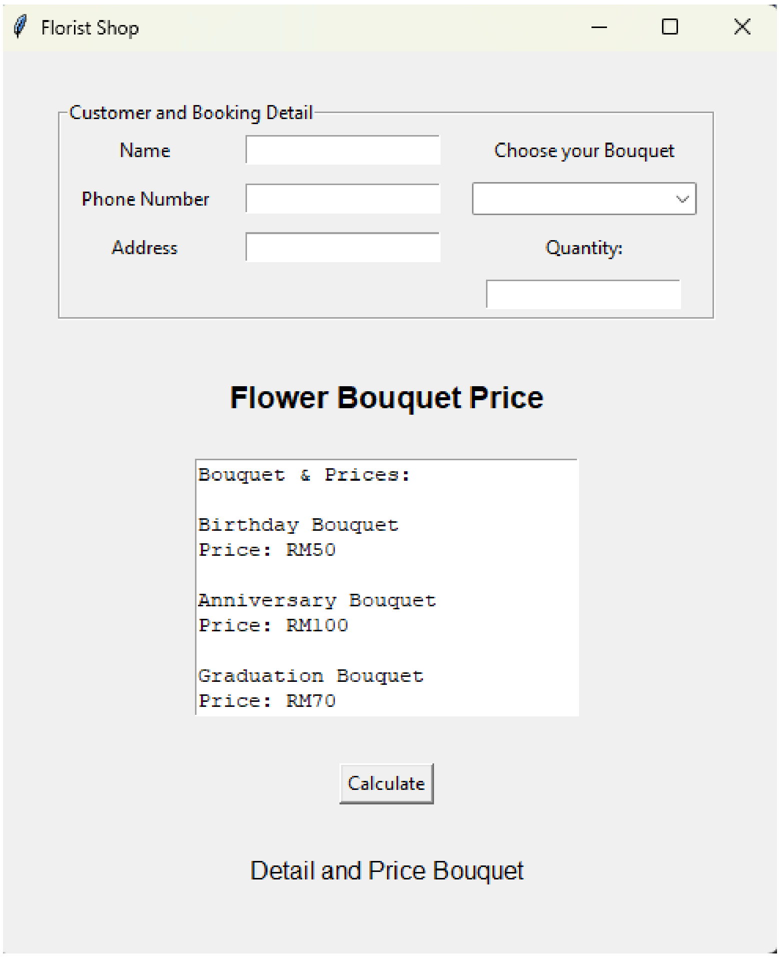
```python
# Save customer info
cust_info_frame =tk.LabelFrame(frame, text="Customer and Booking Detail")
cust_info_frame.grid(row= 0, column=0, padx=40, pady=30)

first_name_label =tk.Label (cust_info_frame, text= "Name")
first_name_label.grid(row= 0, column=0)
phone_number_label = tk.Label (cust_info_frame, text= "Phone Number")
phone_number_label.grid(row= 1, column=0)
address_label =tk.Label (cust_info_frame, text= "Address")
address_label.grid(row=2, column= 0)

first_name_entry = tk.Entry(cust_info_frame)
phone_number_entry = tk.Entry(cust_info_frame)
address_entry =tk.Entry(cust_info_frame)
first_name_entry.grid(row= 0, column= 1)
phone_number_entry.grid(row=1, column=1)
address_entry.grid (row=2, column=1)

bouquet_label = tk.Label(cust_info_frame, text="Choose your Bouquet")
bouquet_combobox = ttk.Combobox(cust_info_frame, values=["Birthday", "Anniversary", "Graduation"])
bouquet_label.grid(row=0, column=2)
bouquet_combobox.grid(row=1, column=2)
```

Figure 3 Examples of coding to saving data



```python
prices_text.pack(pady=20)

# The defined list by using pricebox
prices_text.insert(tk.END, "Bouquet & Prices:\n\n")
prices_text.insert(tk.END, "Birthday Bouquet \nPrice: RM50\n\n")
prices_text.insert(tk.END, "Anniversary Bouquet \nPrice: RM100\n\n")
prices_text.insert(tk.END, "Graduation Bouquet\nPrice: RM70\n\n")
prices_text.configure(state='disabled')

# Save Button
save_button = tk.Button(root, text="Calculate", command= enter_data)
save_button.pack(pady=10)

label = tk.Label(root, text='Detail and Price Bouquet', font=("Times New Romans",12))
label.pack(ipadx=10, ipady=20)
output_label = tk.Label(root, text="")
output_label.pack()


root.mainloop()
```

Figure 4 Save button to calculate and print the detail after enter the data

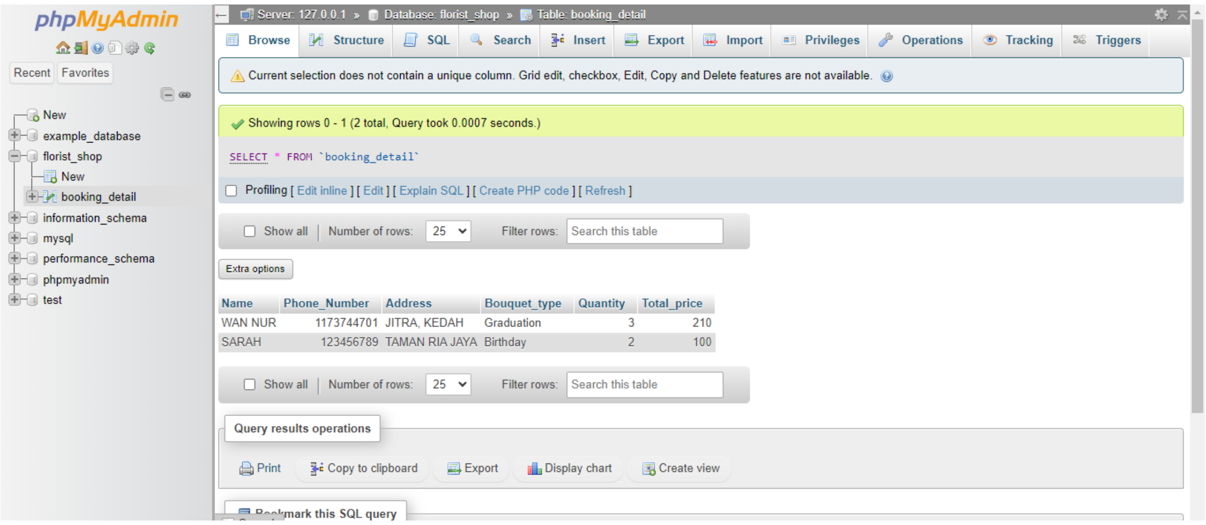


```
Bouquet & Prices:

Birthday Bouquet
Price: RM50

Anniversary Bouquet
Price: RM100

Graduation Bouquet
Price: RM70
```

Figure 5 GUI of Database

4.0 MYSQL DATABASE

In this picture show, the table of database to show the output after the customer entering data into the GUI and the table content is Name, Phone Number, Address, Bouquet type, Quantity, and Total price.



Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

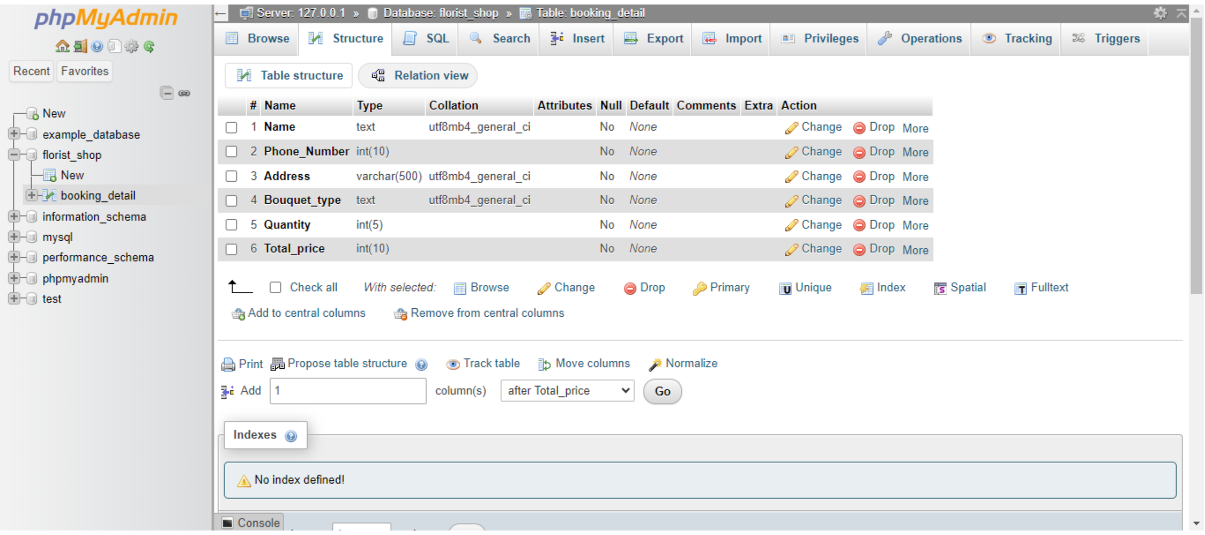
Showing rows 0 - 1 (2 total, Query took 0.0007 seconds.)

```
SELECT * FROM `booking_detail`
```

Number of rows: 25   Filter rows: Search this table

Name	Phone_Number	Address	Bouquet_type	Quantity	Total_price
WAN NUR	1173744701	JITRA, KEDAH	Graduation	3	210
SARAH	123456789	TAMAN RIA JAYA	Birthday	2	100

Figure 6 Table of booking detail in the database



#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Name	text	utf8mb4_general_ci		No	None			Change Drop More
2	Phone_Number	int(10)			No	None			Change Drop More
3	Address	varchar(500)	utf8mb4_general_ci		No	None			Change Drop More
4	Bouquet_type	text	utf8mb4_general_ci		No	None			Change Drop More
5	Quantity	int(5)			No	None			Change Drop More
6	Total_price	int(10)			No	None			Change Drop More

Add 1 column(s) after Total_price

No index defined!

Figure 7 The table structure in database