# Weekly Report – 4<sup>TH</sup> week

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GitHub:- https://github.com/R34L-D34TH/college-report

#### Day 15:-

MySql Connectivity

```
import mysql.connector as db
class Customer:
   def __init__(self):
        self.name = input("Enter Customer Name: ")
        self.phone = input("Enter Customer Phone: ")
        self.email = input("Enter Customer Email: ")
def main():
    customer = Customer()
    print(vars(customer))
    # DataBase Connectivity
    # Step1: Create Connection with Database
    connection = db.connect(user='root',
                            password='',
                            host='127.0.0.1',
                            database='gw2023pds1')
    # Step2: Obtain Cursor to perform SQL operations :)
    cursor = connection.cursor()
    # Step3: Create SQL Statement
    sql = "insert into Customer values" \
          "(null, '{name}', '{phone}', '{email}'); ".format_map(vars(customer))
    # Step4: Execute SQL Command
    cursor.execute(sql)
    connection.commit()
```

```
print("Customer Inserted...")

if __name__ == "__main__":
    main()
```

### Day 16:-

else:

 Project Activity - CRUD operations in Customer with pandas and tabulate

```
class Customer:
    def __init__(self):
        self.cid = 0
        self.name = ""
        self.phone = ""
        self.email = ""
        self.age = 0
        self.gender = ""
        self.address = ""
        self.createdon = ""
    def read_customer_data(self):
        self.name = input("Enter Customer Name: ")
        self.phone = input("Enter Customer Phone: ")
        self.email = input("Enter Customer Email: ")
        self.age = int(input("Enter Customer Age: "))
        self.gender = input("Enter Customer Gender (male/female): ").lower()
        self.address = input("Enter Customer Address: ")
        # Get the date and time
        self.createdon = str(datetime.datetime.today())
        # Eliminate Milli Seconds
        self.createdon = self.createdon[: self.createdon.rindex(".")]
    def get_insert_sql_query(self):
        sql = "insert into Customer values(null, '{name}', '{phone}', '{email}', {age}, " \
              "'{gender}', '{address}', '{createdon}');".format_map(vars(self))
        return sql
    def get_customers_sql_query(self, phone=""):
        if len(phone) == 0:
            sql = "select * from Customer"
```

## Day 17:-

• Code the Vets App Project to manage pets

```
from Session16A import customer_menu
from Session16B import pets_menu
from Session16C import consultation_menu
import datetime
def main_menu():
   message = """
    >>Main Menu<<
    1: Manage Customers
    2: Manage Pets
    3: Manage Consultations
    0: Quit
    ....
    print(message)
    choice = int(input("Enter Your Choice: "))
    while True:
        if choice == 1:
            customer menu()
        elif choice == 2:
            pets_menu()
        elif choice == 3:
            consultation_menu()
        elif choice == 0:
            break
        else:
            print("Invalid Choice")
        print(message)
        choice = int(input("Enter Your Choice: "))
```

```
def main():
   date1 = datetime.datetime.today() # to use this -> import datetime
   welcome = """
   ~~~~~~~~~~~~~~~~
   Welcome to Vets App
   ~~~~~~~~~~~~~~~
   .....
   print(welcome)
   main_menu()
   bye_message = """
   Thank You for Using Vets App
   ....
   print(bye_message)
   date2 = datetime.datetime.today()
   print("App Usage:", date2-date1)
if __name__ == "__main__":
   main()
```

### Day 18:-

• Vets App Code the Consultation

```
class Consultation:
```

```
def __init__(self):
    self.cnid = 0
    self.cid = 0
    self.pid = 0
    self.problem = ""
    self.heartrate = 0
    self.temperature = 98.4
    self.medicines = ""
    self.createdon = ""
def read consultation data(self):
    self.problem = input("Enter Problem: ")
    self.heartrate = int(input("Enter Heart Rate: "))
    self.temperature = float(input("Enter Temperature: "))
    self.medicines = input("Enter Medicines: ")
    # Get the date and time
    self.createdon = str(datetime.datetime.today())
    # Eliminate Milli Seconds
    self.createdon = self.createdon[: self.createdon.rindex(".")]
def get_insert_sql_query(self):
    sql = "insert into Consultation values(null, {cid}, {pid}, '{problem}'," \
          "{heartrate}, {temperature}, '{medicines}', '{createdon}'); ".format_map(vars(self))
    return sql
def get_consultation_sql_query(self, cid="", pid=""):
    sql = "select * from Consultation"
    if len(cid) != 0:
        sql = "select * from Consultation where cid = {}".format(cid)
```

```
if len(pid) != 0:
    sql = "select * from Consultation where pid = {}".format(pid)

return sql

def get_consultation_sql_query_by_date(self, date=""):
    sql = "select * from Consultation where createdon = '{}'".format(date)
    return sql

def get_delete_sql_query(self):
    sql = "delete from Consultation where cnid = {}".format(self.cnid)
    return sql
```

## Day 19:-

• Introduction to Raw MongoDB CRUD Operations

```
import pymongo
import certifi # pip install certifi | If SSL error

# ca = certifi.where() # If SSL error

uri = "mongodb+srv://atpl:atpl@cluster0.eh8zx.gcp.mongodb.net/?retryWrites=true&w=majority"
client = pymongo.MongoClient(uri)

# client = pymongo.MongoClient(uri, tlsCAFile=ca) # If SSL error

db = client['gw2023pds1']
collections = db.list_collection_names()

# print(collections)

for collection in collections:
    print(collection)

documents = db['customer'].find()
for document in documents:
    print(document)
```