# REPORT ON HOSPITAL MANAGEMENT SYSTEM BY USING MYSQL DATABASE AND PYTHON

❖ 1. To connect between python and MYSQL Database and create Database Name i.e 'hospitaldetail' the in MYSQL database .

```
import matplotlib.pyplot as plt
 import mysql.connector
import pandas as pd
from matplotlib import style
mydb = mysql.connector.connect(
host="localhost",
user="root",
 password="Wash@1234"
mycursor = mydb.cursor()
mycursor.execute("create database hospitaldetail")
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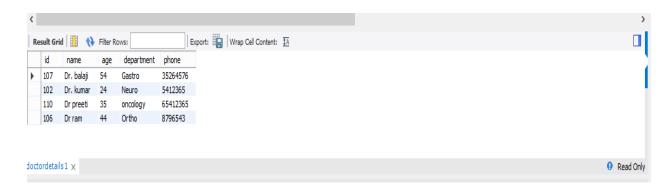
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```

❖ To create DoctorDetails table inserting values on the created table

```
import matplotlib.pyplot as plt
import mysql.connector
import pandas as pd
from matplotlib import style
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="Wash@1234",
    database='hospitaldetail'
)
mycursor = mydb.cursor()
```

```
def desc doctor details():
def insert doctor details():
   mycursor.execute(sql)
   mydb.commit()
   print(df)
```



**❖** To create PatientDetails table inserting values on the created table



**❖** To create WorkerDetails table inserting values on the created table

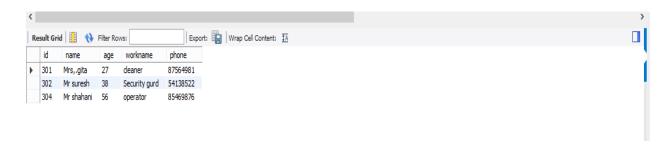
```
def create_worker_details():
    print("create table for worker ")
    mycursor.execute(
        "CREATE TABLE worker_detail (id int ,name VARCHAR(255),age int,
```

```
workname VARCHAR(255),phone int(15))")
print("table created")

def desc_worker_details():
    print("show the structure of worker details table ")
    df = pd.read_sql("describe worker_detail", mydb)
    print(df)

def insert_worker_details():
    print("Enter new worker information")
    id = int(input("Enter ID of worker: "))
    name = input("Enter worker name: ")
    age = int(input("Enter age: "))
    workname = input("Enter the workname: ")
    phone = int(input("Enter phone number: "))
    sql = f"INSERT INTO worker_detail VALUES
('{id}', '(name)', '{age}', '(workname)', '{phone}')"
    mycursor.execute(sql)
    print("succesfully registrated")
    mydb.commit()

def show_record_worker_details():
    print("Record of all worker")
    df = pd.read_sql("select * from worker_detail ", mydb)
    print(df)
```



### ❖ To calculate total bill

```
def totalbill():
    print("Record of charge without totaling Bill")
    print()
    df = pd.read_sql("select * from bill", mydb)
    print(df)
    print()
    column_list = list(df)
    print(column_list)
    print()
    print("Record of charge with totaling Bill")
    df = pd.read sql("SELECT *, (drvisit + medicine + room) AS totalbill
```

```
Print (df)

id name age drvisit medicine room

0 450 washim 21 250 550 200

1 451 nasru 27 300 450 250

2 355 moiunuddin 36 700 800 600

3 366 ajit 44 950 950 500

['id', 'name', 'age', 'drvisit', 'medicine', 'room']

Record of charge with totaling Bill

id name age drvisit medicine room totalbill

0 450 washim 21 250 550 200 1000.0

1 451 nasru 27 300 450 250 1000.0

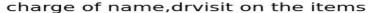
2 355 moiunuddin 36 700 800 600 2100.0

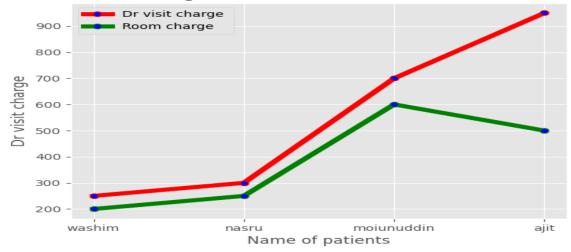
3 366 ajit 44 950 950 500 2400.0

Process finished with exit code 0
```

## Line chart Name of patients and Dr visit charge

```
def line_plot():
    print("line plot")
    df = pd.read_sql("select * from bill", mydb)
    x1 = df['name']
    y1 = df['drvisit']
    y2 = df['room']
    style.use("ggplot")
    plt.title('charge of name, drvisit on the items')
    plt.xlabel("Name of patients")
    plt.ylabel("Dr visit charge")
    plt.plot(x1, y1, color='r', linewidth=5, marker='o',
markerfacecolor="blue", label="Dr visit charge ")
    plt.plot(x1, y2, color='g', linewidth=5, marker='o',
markerfacecolor="blue", label='Room charge')
    plt.legend(loc=0)
    plt.show()
```

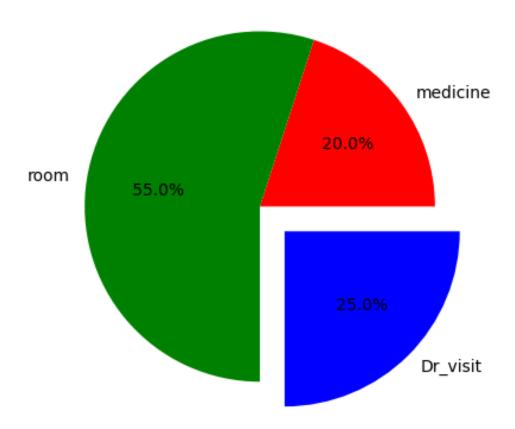




## Pie-chart

```
def pie_plot():
    print("pie plot")
    df = pd.read_sql("select * from bill", mydb)
    print(df)
    plt.title('charge of room, medicine, Dr. visit on the items')
    Total_Exp =eval(input("Enter charge of room, medicine, Dr visit in sq brackets:"))
    color = ['red', 'green', 'blue']
    items = ['medicine', 'room', 'Dr_visit']
    exp1 = [0, 0, 0.2]
    plt.pie(Total_Exp,colors=color, labels=items, explode=exp1,
autopct='%5.1f%%')
    plt.show()
```

# charge of room, medicine, Dr. visit on the items



### ❖ Bar chart

```
def bar plot():
    print("Bar plot")
    df=pd.read_sql("select * from bill",mydb)
    x1=df['name']
    y1=df['medicine']
    plt.xlabel('patent name',fontsize=14,color="r")
    plt.xlabel('medicine', fontsize=14, color="r")
    plt.title("paid for madicine",fontsize=14,color='blue')
    plt.xticks(fontsize=14,rotation=30)
    plt.bar(x1,y1,width=0.5,facecolor='r',edgecolor='green')
    plt.show()
```

# paid for madicine

