



NARULA INSTITUTE OF TECHNOLOGY

NAAC 'A' Accredited | NIRF Ranked College

Affiliated by MAKAUT

PYTHON PROJECT ON

STUDENT FEE MANAGEMENT SYSTEM

SUBMITTED BY-

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SOFTWARE SPECIFICATION:-

Operating System : Windows 7

Platform : Python IDLE 3.12

Database : MySQL
Languages : Python

HARDWARE SPECIFICATION:-

Processor : INTEL I3 4TH GEN
Hard Disk : 256 GB
Ram : 4 GB

Note: For Python-MySQL connectivity, following data have been used:-

Host- localhost, user- root, password- ronaldoo, database- school

Table Structure(image given below)

Database changed

```
mysql> desc student;
```

Field	Type	Null	Key	Default	Extra
roll	int(5)	NO	PRI	NULL	
name	varchar(20)	NO		NULL	
age	int(2)	NO		NULL	
class	varchar(3)	YES		NULL	
City	varchar(10)	YES		NULL	

5 rows in set (0.36 sec)

```
mysql> desc fee;
```

Field	Type	Null	Key	Default	Extra
roll	int(5)	YES		NULL	
FeeDeposit	int(6)	NO		NULL	
month	varchar(10)	YES		NULL	

3 rows in set (0.13 sec)

Source code

#SQL Commands to create both the tables

For Student table:

```
mysql> CREATE TABLE student (roll int(5) Primary key, name  
->varchar(20) NOT NULL,  
->age int(2) NOTNULL,  
->class varchar(3) NOT NULL,  
->City varchar(10));
```

For Fee table:

```
mysql> CREATE TABLE fee (roll int(5) references Student(roll),  
->FeeDeposit int(6) NOT NULL,  
->month varchar(10) NOT NULL);
```

Source code

```
from prettytable import PrettyTable  
import mysql.connector  
from prettytable import prettytable  
  
mydb=mysql.connector.connect(host="localhost",  
user="root",  
passwd="ronaldoo",  
database="school")  
mycursor=mydb.cursor()  
print("-----MAIN MENU-----"  
-")  
  
def stuInsert():  
    L=[]  
    roll=int(input("Enter the roll number : "))  
    L.append(roll)  
    name=input("Enter the Name: ")
```

```

L.append(name)
age=int(input("Enter Age of Student : "))
L.append(age)
classs=input("Enter the Class : ")
L.append(classs)
city=input("Enter the City ofthe Student : ")
L.append(city)
stud=(L)
sql="insert into student (roll,name,age,class,city) values
(%s,%s,%s,%s,%s)"
mycursor.execute(sql,stud)
mydb.commit()
print("inserted successfully")

```

```

def stuView():
    print("Select the search criteria : ")
    print("1. Roll")
    print("2. Name")
    print("3. Age")
    print("4. City")
    print("5. All")
    ch=int(input("Enter the choice : "))
    if ch==1:
        s=int(input("Enter roll no : "))
        rl=(s,)
        sql="select * from student where roll=%s"
        mycursor.execute(sql,rl)
    elif ch==2:
        s=input("Enter Name : ")
        rl=(s,)
        sql="select * from student where name=%s"
        mycursor.execute(sql,rl)
    elif ch==3:
        s=int(input("Enter age : "))
        rl=(s,)

```

```

sql="select * from student where age=%s"
mycursor.execute(sql,rl)
elif ch==4:
    s=input("Enter City : ")
    rl=(s,)
    sql="select * from student where City=%s"
    mycursor.execute(sql,rl)
elif ch==5:
    sql="select * from student"
    mycursor.execute(sql)
    res=mycursor.fetchall()
    print("The Students details are as follows : ")
    print("(ROLL, Name, Age, Class, City)")
    t=PrettyTable(['ROLL','NAME', 'AGE', 'CLASS', 'CITY'])
    for roll, name, age, classs, city in res:
        t.add_row([roll, name, age, classs, city])
    print(t)

```

```

def feeDeposit():
    L=[]
    roll=int(input("Enter the roll number : "))
    L.append(roll)
    feeDeposit=int(input("Enter the Fee to be deposited : "))
    L.append(feeDeposit)
    month=input("Enter month of fee : ")
    L.append(month)
    fee=(L)
    sql="insert into fee (roll,feeDeposit,Month) values (%s,%s,%s)"
    mycursor.execute(sql,fee)
    mydb.commit()
    print("inserted successfully")

```

```

def feeView():
    print("Please enter the details to view the fee details :")

```

```

roll=int(input("Enter the roll number of the student whose fee is to be
viewed : "))
sql="Select Student.Roll, Student.Name, Student.Class,
fee.feeDeposit, fee.month from Student INNER JOIN fee ON
Student.roll=fee.roll and fee.roll = %s" % (roll)
mycursor.execute(sql)
res=mycursor.fetchall()
mydb.commit()
print("The Students fees details are as follows \n: ")
t=PrettyTable(['ROLL','NAME', 'CLASS', 'FEES', 'MONTH'])
for roll, name, classs, fees, month in res:
    t.add_row([roll, name, classs, fees, month])
print(t)

```

```

def removeStu():
    roll=int(input("Enter the roll number of the student to be deleted : "))
    rl=(roll,)
    sql="Delete from fee where roll=%s"
    mycursor.execute(sql,rl)
    sql="Delete from Student where roll=%s"
    mycursor.execute(sql,rl)
    mydb.commit()

```

```

def RunAgain():
    ch=str(input("do you want to run again y or n \n"))
    if ch=='y':
        print("-----MAIN MENU-----")
    MenuSet()

```

```

while(1):
    def MenuSet():
        print("Enter 1 : To Add Student")
        print("Enter 2 : To View Student ")
        print("Enter 3 : To Deposit Fee ")

```

```

print("Enter 4 : To Remove Student")
print("Enter 5 : To View Fee of Any Student")
try:
    userInput = int(input("Please Select An Above Option: "))
except ValueError:
    exit("\nHey! That's a Wrong choice Try again")

else:
    print("\n")
    if(userInput == 1):
        stuInsert()
        RunAgain()
    elif(userInput==2):
        stuView()
        RunAgain()
    elif(userInput==3):
        feeDeposit()
        RunAgain()
    elif(userInput==4):
        removeStu()
        RunAgain()
    elif(userInput==5):
        feeView()
        RunAgain()
    else:
        print("wrong choice\n")
        print("Enter correct choice. . . ")
        print("-----MAIN MENU-----")
    -----")
MenuSet()

```

Output: (Adding Students):

= RESTART:

C:\Users\Rupshank\Desktop\python\new_project.py

-----MAIN MENU-----

Enter 1 : To Add Student

Enter 2 : To View Student

Enter 3 : To Deposit Fee

Enter 4 : To Remove Student

Enter 5 : To View Fee of Any Student

Please Select An Above Option: 1

Enter the roll number : 1

Enter the Name: Rupam

Enter Age of Student : 19

Enter the Class : 12

Enter the City ofthe Student : kolkata

inserted successfully

Viewing Students:

= RESTART: C:\Users\Rupshank\Desktop\python\new_project.py

-----MAIN MENU-----

Enter 1 : To Add Student

Enter 2 : To View Student

Enter 3 : To Deposit Fee

Enter 4 : To Remove Student

Enter 5 : To View Fee of Any Student

Please Select An Above Option: 2

Select the search criteria :

1. Roll

2. Name

3. Age

4. City

5. All

Enter the choice : 5

The Students details are as follows :

(ROLL, Name, Age, Class, City)

ROLL	NAME	AGE	CLASS	CITY
1	RUPAM	18	12	KOLKATA
2	SARUP	17	11	DELHI
3	PRIYANKA	19	12	MYSORE
4	DEBRAJ	18	11	GOA

DEPOSITING FEES:

= RESTART: C:\Users\Rupshank\Desktop\python\new_project.py

-----MAIN MENU-----

Enter 1 : To Add Student

Enter 2 : To View Student
Enter 3 : To Deposit Fee
Enter 4 : To Remove Student
Enter 5 : To View Fee of Any Student
Please Select An Above Option: 3

Enter the roll number : 2
Enter the Fee to be deposited : 2000
Enter month of fee : DEC
inserted successfully
do you want to run again y or n
Y

Enter 1 : To Add Student
Enter 2 : To View Student
Enter 3 : To Deposit Fee
Enter 4 : To Remove Student
Enter 5 : To View Fee of Any Student
Please Select An Above Option: 3

Enter the roll number : 2
Enter the Fee to be deposited : 2500
Enter month of fee : JAN
inserted successfully

VIEWING DEPOSITED FEES:

-----MAIN MENU-----

Enter 1 : To Add Student
Enter 2 : To View Student
Enter 3 : To Deposit Fee

Enter 4 : To Remove Student
Enter 5 : To View Fee of Any Student
Please Select An Above Option: 5

Please enter the details to view the fee details :
Enter the roll number of the student whose fee is to be
viewed : 2

The Students fees details are as follows

:

ROLL	NAME	CLASS	FEES	MONTH
2	SARUP	11	2000	DEC
2	SARUP	11	2500	JAN

REMOVING STUDENT:

= RESTART:

C:\Users\Rupshank\Desktop\python\new_project.py

-----MAIN MENU-----

Enter 1 : To Add Student
Enter 2 : To View Student
Enter 3 : To Deposit Fee
Enter 4 : To Remove Student
Enter 5 : To View Fee of Any Student
Please Select An Above Option: 4

Enter the roll number of the student to be deleted : 5

THE REMOVED STUDENT IS:

+	-----	+	-----	+	-----	+	-----	+	-----	+
	ROLL		NAME		AGE		CLASS		CITY	
+	-----	+	-----	+	-----	+	-----	+	-----	+
	5		TANAY		18		12		TRIPURA	
+	-----	+	-----	+	-----	+	-----	+	-----	+