

PROJECT TITLE- “SCHOOL MANAGEMENT”

DBMS: MySQL

Host : localhost

User: root

Password: tiger

DataBase: mysql

Table Structure: As per the Screenshot given below:

Table:Student

```
C:\Program Files\MySQL\MySQL Server 5.1\bin\mysql.exe
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 5
Server version: 5.1.33-community MySQL Community Server (GPL)
Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use mysql
Database changed
mysql> create table student
-> (sname varchar(30) not null,admno int primary key,dob date,
-> cls char(2),cty varchar(20));
Query OK, 0 rows affected (0.08 sec)

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| sname | varchar(30)   | NO   |     | NULL    |       |
| admno | int(11)       | NO   | PRI | NULL    |       |
| dob   | date          | YES  |     | NULL    |       |
| cls   | char(2)       | YES  |     | NULL    |       |
| cty   | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.02 sec)

mysql>
```

Table: Emp

```
C:\Program Files\MySQL\MySQL Server 5.1\bin\mysql.exe
mysql> create table emp(empno integer primary key,ename varchar(20),
-> job varchar(20),hiredate date);
Query OK, 0 rows affected (0.11 sec)

mysql> desc emp;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| empno | int(11)       | NO   | PRI | NULL    |       |
| ename | varchar(20)   | YES  |     | NULL    |       |
| job   | varchar(20)   | YES  |     | NULL    |       |
| hiredate | date        | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql>
```

Table:Fee

```
C:\Program Files\MySQL\MySQL Server 5.1\bin\mysql.exe
mysql> create table fee(admno integer,fee integer,month varchar(15));
Query OK, 0 rows affected (0.13 sec)
mysql> desc fee;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| admno | int(11)       | YES  |     | NULL    |       |
| fee   | int(11)       | YES  |     | NULL    |       |
| month | varchar(15)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.02 sec)
mysql>
```

Table:Exam

```
C:\Program Files\MySQL\MySQL Server 5.1\bin\mysql.exe
mysql> create table exam(sname varchar(20),admno integer,per decimal(4,2),
-> res varchar(10));
Query OK, 0 rows affected (0.11 sec)
mysql> desc exam;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| sname | varchar(20)   | YES  |     | NULL    |       |
| admno | int(11)       | YES  |     | NULL    |       |
| per   | decimal(4,2)  | YES  |     | NULL    |       |
| res   | varchar(10)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)
mysql>
```

Python Code:

```
import os
import platform
import mysql.connector
#import pandas as pd
#from pandas import DataFrame

def selection():
    db = mysql.connector.connect(user='root', password='tiger', host='localhost', database='mysql')
    cursor = db.cursor()
    print('-----\nWELCOME TO SCHOOL MANAGEMENT SYSTEM\n-----')
    print("1.STUDENT MANAGEMENT")
    print("2.EMPLOYEE MANAGEMENT")
    print("3.FEE MANAGEMENT")
    print("4.EXAM MANAGEMENT")

ch=int(input("\nEnter ur choice (1-4) : "))
if ch==1:
    print('\nWELCOME TO STUDENT MANAGEMENT SYSTEM\n')
    print('a.NEW ADMISSION')
    print('b.UPDATE STUDENT DETAILS')
    print('c.ISSUE TC')
    c=input("Enter ur choice (a-c) : ")
    print('\nInitially the details are..\n')
    display1()
    if c=='a':
        insert1()
        print('\nModified details are..\n')
        display1()
    elif c=='b':
        update1()
        print('\nModified details are..\n')
        display1()
    elif c=='c':
        delete1()
        print('\nModified details are..\n')
        display1()
    else:
        print('Enter correct choice...!!')
elif ch==2:
    print('WELCOME TO EMPLOYEE MANAGEMENT SYSTEM')
    print('a.NEW EMPLOYEE')
    print('b.UPDATE STAFF DETAILS')
    print('c.DELETE EMPLOYEE')
    c=input("Enter ur choice : ")
    if c=='a':
        insert2()
```

```

        print('\nModified details are..\n')
        display2()
    elif c=='b':
        update2()
        print('\nModified details are..\n')
        display2()
    elif c=='c':
        delete2()
        print('\nModified details are..\n')
        display2()
    else:
        print('Enter correct choice...!!')
elif ch==3:
    print('WELCOME TO FEE MANAGEMENT SYSTEM')
    print('a.NEW FEE')
    print('b.UPDATE FEE')
    print('c.EXEMPT FEE')
    c=input("Enter ur choice : ")
    if c=='a':
        insert3()
    elif c=='b':
        update3()
    elif c=='c':
        delete3()
    else:
        print('Enter correct choice...!!')
elif ch==4:
    print('WELCOME TO EXAM MANAGEMENT SYSTEM')
    print('a.EXAM DETAILS')
    print('b.UPDATE DETAILS ')
    print('c.DELETE DETAILS')
    c=input("Enter ur choice : ")
    if c=='a':
        insert4()
    elif c=='b':
        update4()
    elif c=='c':
        delete4()
    else:
        print('Enter correct choice...!!')
else:
    print('Enter correct choice...!!')

def insert1():
    sname=input("Enter Student Name : ")
    admno=int(input("Enter Admission No : "))
    dob=input("Enter Date of Birth(yyyy-mm-dd): ")
    cls=input("Enter class for admission: ")
    cty=input("Enter City : ")
    db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
    cursor = db.cursor()

```

```

sql="INSERT INTO student(sname,admno,dob,cls,cty) VALUES ( '%s' ,'%d','%s','%s','%s')"%(sname,admno,dob,cls,cty)
try:
    cursor.execute(sql)
    db.commit()
except:
    db.rollback()
    db.close()
#insert()

def display1():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM student"
        cursor.execute(sql)
        results = cursor.fetchall()
        for c in results:
            sname = c[0]
            admno= c[1]
            dob=c[2]
            cls=c[3]
            cty=c[4]
            print ("(sname=%s,admno=%d,dob=%s,cls=%s,cty=%s)" % (sname,admno,dob,cls,cty))
    except:
        print ("Error: unable to fetch data")
        db.close()
def update1():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM student"
        cursor.execute(sql)
        results = cursor.fetchall()

        for c in results:
            sname = c[0]
            admno= c[1]
            dob=c[2]
            cls=c[3]
            cty=c[4]
    except:
        print ("Error: unable to fetch data")
    print()
    tempst=int(input("Enter Admission No : "))
    temp=input("Enter new class : ")
    try:
        sql = "Update student set cls=%s where admno='%d'" % (temp,tempst)
        cursor.execute(sql)
        db.commit()
    except Exception as e:
        print (e)

```

```

        db.close()
def delete1():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM student"
        cursor.execute(sql)
        results = cursor.fetchall()
        for c in results:
            sname = c[0]
            admno= c[1]
            dob=c[2]
            cls=c[3]
            cty=c[4]
    except:
        print ("Error: unable to fetch data")

temp=int(input("\nEnter adm no to be deleted : "))
try:
    sql = "delete from student where admno='%d'" % (temp)
    ans=input("Are you sure you want to delete the record(y/n) : ")
    if ans=='y' or ans=='Y':
        cursor.execute(sql)
        db.commit()
except Exception as e:
    print (e)
    db.close()
def insert2():
    ename=input("Enter Employee Name : ")
    empno=int(input("Enter Employee No : "))
    job=input("Enter Designation: ")
    hiredate=input("Enter date of joining: ")
    db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
    cursor = db.cursor()
    sql="INSERT INTO emp(ename,empno,job,hiredate) VALUES ( '%s' , '%d', '%s', '%s')"% (ename,empno,job,hiredate)
    try:
        cursor.execute(sql)
        db.commit()
    except:
        db.rollback()
        db.close()
def display2():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM emp"
        cursor.execute(sql)
        results = cursor.fetchall()
        for c in results:
            ename = c[0]
            empno= c[1]

```

```

        job=c[2]
        hiredate=c[3]
        print ("(empno=%d,ename=%s,job=%s,hiredate=%s)" % (empno,ename,job,hiredate))
except:
    print ("Error: unable to fetch data")
    db.close()
def update2():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM emp"
        cursor.execute(sql)
        results = cursor.fetchall()
        for c in results:
            ename = c[0]
            empno= c[1]
            job=c[2]
            hiredate=c[3]
    except:
        print ("Error: unable to fetch data")
    print()
    tempst=int(input("Enter Employee No : "))
    temp=input("Enter new designation : ")
    try:
        sql = "Update emp set job=%s where empno='%d'" % (temp,tempst)
        cursor.execute(sql)
        db.commit()
    except Exception as e:
        print (e)
        db.close()
def delete2():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM emp"
        cursor.execute(sql)
        results = cursor.fetchall()
        for c in results:
            ename = c[0]
            empno= c[1]
            job=c[2]
            hiredate=c[3]
    except:
        print ("Error: unable to fetch data")

    temp=int(input("\nEnter emp no to be deleted : "))
    try:
        sql = "delete from emp where empno='%d'" % (temp)
        ans=input("Are you sure you want to delete the record(y/n) : ")
        if ans=='y' or ans=='Y':
            cursor.execute(sql)

```

```

        db.commit()
except Exception as e:
    print (e)
    db.close()
def insert3():
    admno=int(input("Enter adm no: "))
    fee=float(input("Enter fee amount : "))
    month=input("Enter Month: ")
    db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
    cursor = db.cursor()
    sql="INSERT INTO fee(admno,fee,month) VALUES ( '%d','%d','%s')"%(admno,fee,month)
    try:
        cursor.execute(sql)
        db.commit()
    except:
        db.rollback()
        db.close()
def display3():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM fee"
        cursor.execute(sql)
        results = cursor.fetchall()
        for c in results:
            admno= c[0]
            fee=c[1]
            month=c[2]
            print ("(admno=%d,fee=%s,month=%s)" % (admno,fee,month))
    except:
        print ("Error: unable to fetch data")
        db.close()
def update3():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM fee"
        cursor.execute(sql)
        results = cursor.fetchall()
        for c in results:
            admno= c[0]
            fee=c[1]
            month=c[2]
    except:
        print ("Error: unable to fetch data")
    print()
    tempst=int(input("Enter Admission No : "))
    temp=input("Enter new class : ")
    try:
        sql = "Update fee set month=%s where admno='%d'" % (temp,tempst)
        cursor.execute(sql)

```



```

        db.commit()
except Exception as e:
    print (e)
    db.close()
def delete3():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM fee"
        cursor.execute(sql)
        results = cursor.fetchall()
        for c in results:
            admno= c[0]
            fee=c[1]
            month=c[2]
    except:
        print ("Error: unable to fetch data")

temp=int(input("\nEnter adm no to be deleted : "))
try:
    sql = "delete from student where admno='%d'" % (temp)
    ans=input("Are you sure you want to delete the record(y/n) : ")
    if ans=='y' or ans=='Y':
        cursor.execute(sql)
        db.commit()
except Exception as e:
    print (e)
    db.close()
def insert4():
    sname=input("Enter Student Name : ")
    admno=int(input("Enter Admission No : "))
    per=float(input("Enter percentage : "))
    res=input("Enter result: ")
    db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
    cursor = db.cursor()
    sql="INSERT INTO exam(sname,admno,per,res) VALUES ( '%s' ,'%d','%s','%s')"%(sname,admno,per,res)
    try:
        cursor.execute(sql)
        db.commit()
    except:
        db.rollback()
        db.close()
def display4():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM exam"
        cursor.execute(sql)
        results = cursor.fetchall()
        for c in results:
            sname = c[0]

```

```

        admno= c[1]
        dob=c[2]
        cls=c[3]
        cty=c[4]
        print ("(sname,admno,per,res)"%(sname,admno,per,res) )
except:
    print ("Error: unable to fetch data")
    db.close()

def update4():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM exam"
        cursor.execute(sql)
        results = cursor.fetchall()

        for c in results:
            sname = c[0]
            admno= c[1]
            dob=c[2]
            cls=c[3]
            cty=c[4]
    except:
        print ("Error: unable to fetch data")
    print()
    tempst=int(input("Enter Admission No : "))
    temp=input("Enter new result : ")
    try:
        sql = "Update student set res=%s where admno='%d'" % (temp,tempst)
        cursor.execute(sql)
        db.commit()
    except Exception as e:
        print (e)
        db.close()

def delete4():
    try:
        db = mysql.connector.connect(user='root', password='tiger', host='localhost',database='mysql')
        cursor = db.cursor()
        sql = "SELECT * FROM exam"
        cursor.execute(sql)
        results = cursor.fetchall()
        for c in results:
            sname = c[0]
            admno= c[1]
            dob=c[2]
            cls=c[3]
            cty=c[4]
    except:
        print ("Error: unable to fetch data")

```

```
temp=int(input("\nEnter adm no to be deleted : "))
try:
    sql = "delete from exam where admno='%d'" % (temp)
    ans=input("Are you sure you want to delete the record(y/n) : ")
    if ans=='y' or ans=='Y':
        cursor.execute(sql)
        db.commit()
except Exception as e:
    print (e)
    db.close()
selection()
```

OUTPUT:

INSERT DETAILS

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\pythonEXE\DBconnectivity.py =====
-----
WELCOME TO SCHOOL MANAGEMENT SYSTEM
-----
1.STUDENT MANAGEMENT
2.EMPLOYEE MANAGEMENT
3.FEE MANAGEMENT
4.EXAM MANAGEMENT

Enter ur choice (1-4) : 1

WELCOME TO STUDENT MANAGEMENT SYSTEM

a.NEW ADMISSION
b.UPDATE STUDENT DETAILS
c.ISSUE TC
Enter ur choice (a-c) : a

Initially the details are..

(sname=Reema,admno=2089,dob=1111-11-11,cls=5,cty=Delhi)
(sname=Jitu,admno=2341,dob=2012-01-01,cls=2,cty=Sehore)
(sname=qwerty,admno=3456,dob=3333-33-33,cls=3,cty=fghj)
Enter Student Name : Deepak Kumar
Enter Admission No : 2114
Enter Date of Birth(yyyy-mm-dd): 2012-11-07
Enter class for admission: 1
Enter City : Indore

Modified details are..

(sname=Reema,admno=2089,dob=1111-11-11,cls=5,cty=Delhi)
(sname=Deepak Kumar,admno=2114,dob=2012-11-07,cls=1,cty=Indore)
(sname=Jitu,admno=2341,dob=2012-01-01,cls=2,cty=Sehore)
(sname=qwerty,admno=3456,dob=3333-33-33,cls=3,cty=fghj)
>>>
```

Ln: 39 Col: 4

UPDATE DETAILS

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/pythonEXE/DBconnectivity.py =====
-----
WELCOME TO SCHOOL MANAGEMENT SYSTEM
-----
1.STUDENT MANAGEMENT
2.EMPLOYEE MANAGEMENT
3.FEE MANAGEMENT
4.EXAM MANAGEMENT

Enter ur choice (1-4) : 1

WELCOME TO STUDENT MANAGEMENT SYSTEM

a.NEW ADMISSION
b.UPDATE STUDENT DETAILS
c.ISSUE TC
Enter ur choice (a-c) : b

Initially the details are..

(sname=Reema,admno=2089,dob=1111-11-11,cls=3,cty=Delhi)
(sname=qwerty,admno=3456,dob=3333-33-33,cls=3,cty=fghj)

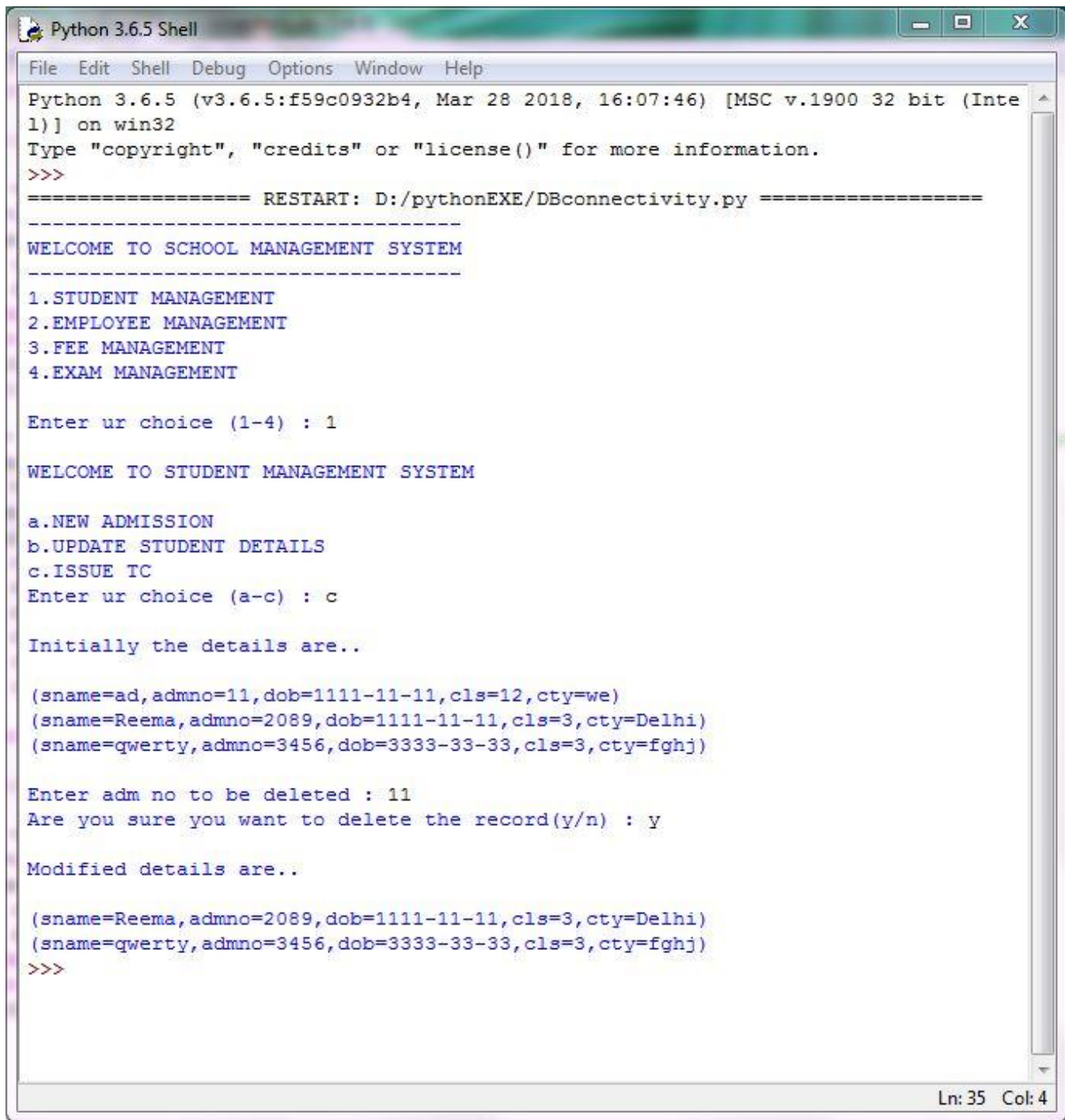
Enter Admission No : 2089
Enter new class : 5

Modified details are..

(sname=Reema,admno=2089,dob=1111-11-11,cls=5,cty=Delhi)
(sname=qwerty,admno=3456,dob=3333-33-33,cls=3,cty=fghj)
>>>
```

Ln: 34 Col: 4

DELETE DETAILS



```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/pythonEXE/DBconnectivity.py =====
-----
WELCOME TO SCHOOL MANAGEMENT SYSTEM
-----
1.STUDENT MANAGEMENT
2.EMPLOYEE MANAGEMENT
3.FEE MANAGEMENT
4.EXAM MANAGEMENT

Enter ur choice (1-4) : 1

WELCOME TO STUDENT MANAGEMENT SYSTEM

a.NEW ADMISSION
b.UPDATE STUDENT DETAILS
c.ISSUE TC
Enter ur choice (a-c) : c

Initially the details are..

(sname=ad, admno=11, dob=1111-11-11, cls=12, cty=we)
(sname=Reema, admno=2089, dob=1111-11-11, cls=3, cty=Delhi)
(sname=qwerty, admno=3456, dob=3333-33-33, cls=3, cty=fghj)

Enter adm no to be deleted : 11
Are you sure you want to delete the record(y/n) : y

Modified details are..

(sname=Reema, admno=2089, dob=1111-11-11, cls=3, cty=Delhi)
(sname=qwerty, admno=3456, dob=3333-33-33, cls=3, cty=fghj)
>>>
```

Ln: 35 Col: 4

By:
Shivkamal Singh (PGT CS)
KV Sehore