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STD: S.Y.B.SC.IT

SUBJECT: PYTHON PROGRAMMING

Practical (9 and 10)

Practical 9

1. Design a Python GUI application to insert records in the database

```
def insert(self):
    import mysql.connector
    conn=mysql.connector.connect(host='localhost',user='root',password='imnikhil',database='219371_PP')
    cur=conn.cursor()
    cur.execute("""insert into
tab1(userid,name)values(%s,%s)""",(self.lineEdit.text(),self.lineEdit_2
.text()))
    conn.commit()
    cur.close()
    print("record added successfully")
```

```
self.pushButton.clicked.connect(self.insert)
```

output:

C:\Windows\py.exe

record added successfully

Form

To INSERT DATA IN DATABASE

219371_ID:

219371_NAME:

INSERT

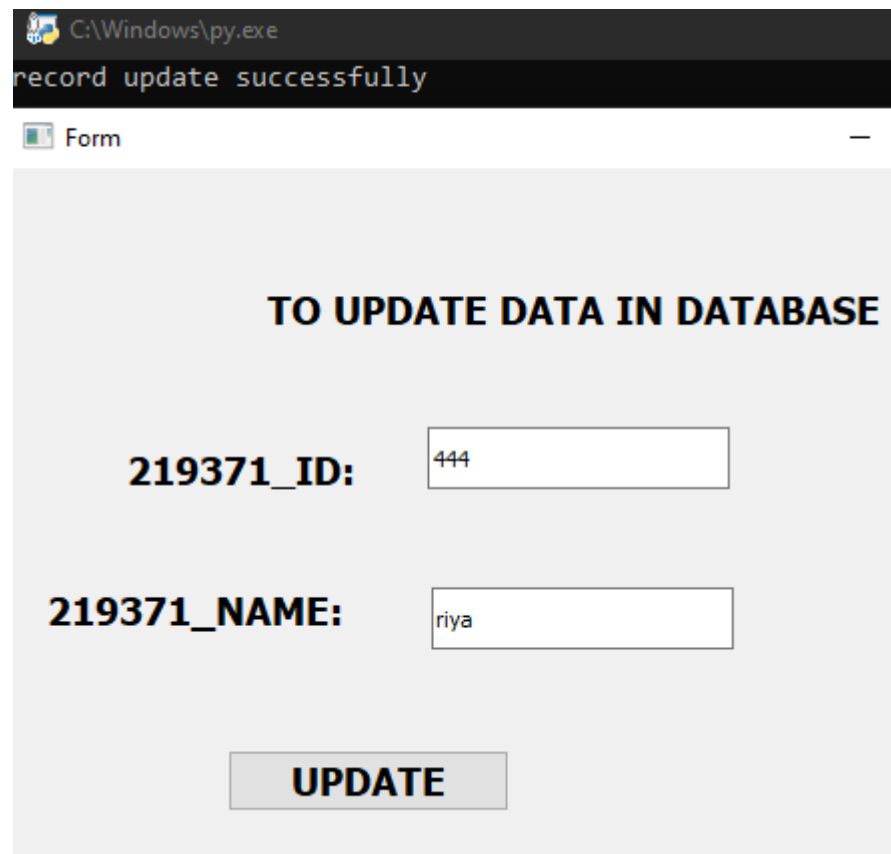
```
mysql> select * from tab1;
+-----+-----+
| userid | name |
+-----+-----+
| 4567   | jeet |
| 345    | raj  |
| 677    | ram  |
+-----+-----+
3 rows in set (0.00 sec)
```

2. Design a Python GUI application to update records in the database

```
3. def update(self):
4.     import mysql.connector
5.     conn=mysql.connector.connect(host='localhost',user='root',password='imnikhil',database='219371_PP')
6.     c=conn.cursor()
7.     c.execute("""update tab1 SET userid=(%s) WHERE name=(%s)""",(self.input1.text(),self.input2.text()))
8.     conn.commit()
9.     c.close()
10.    print("record update successfully")
```

```
self.pushButton.clicked.connect(self.update)
```

output:



C:\Windows\py.exe

record update successfully

Form

TO UPDATE DATA IN DATABASE

219371_ID:

219371_NAME:

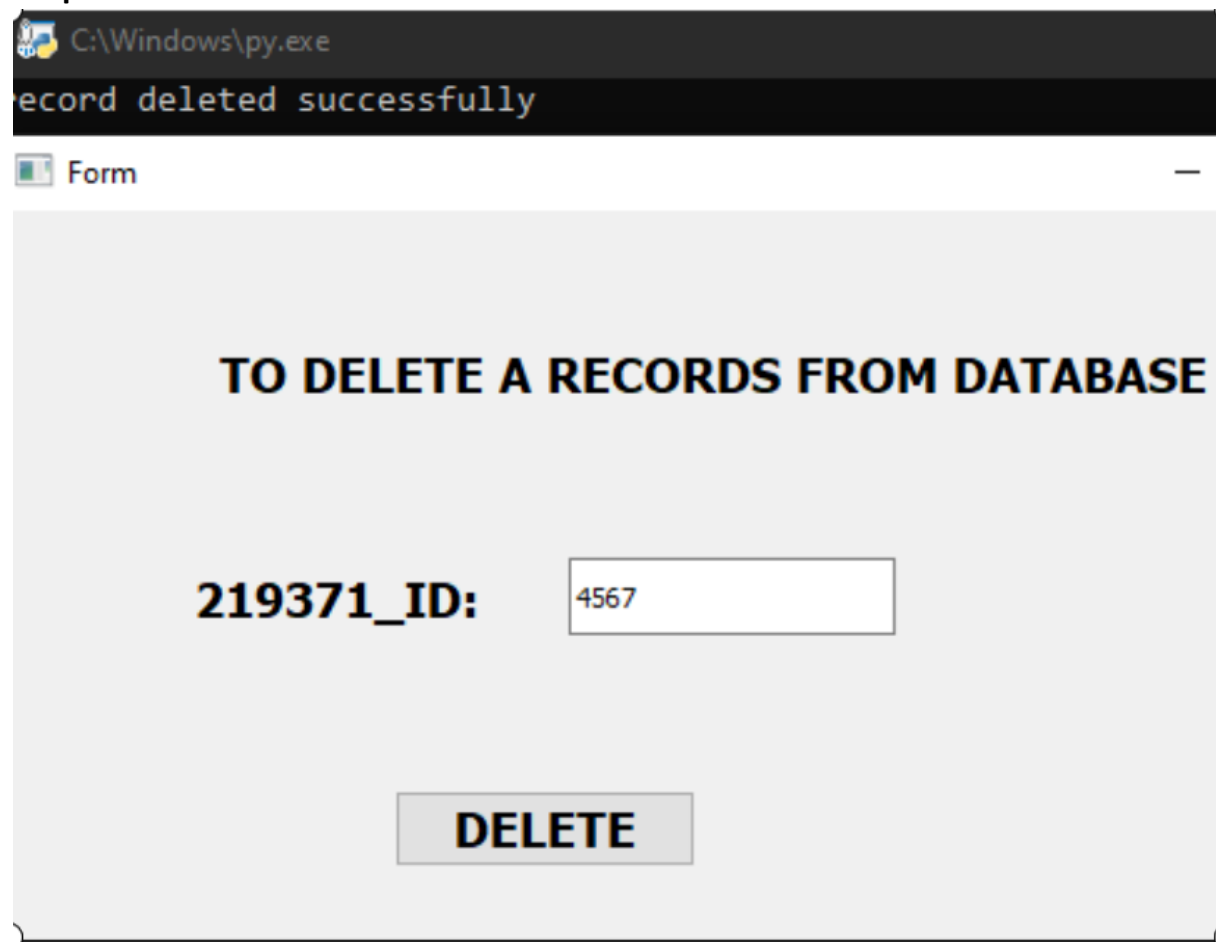
UPDATE

3. Design a Python GUI application to delete records from the database

```
def delete(self):
    import mysql.connector
    conn=mysql.connector.connect(host='localhost',user='root',password='im
nikhil',database='219371_PP')
    c=conn.cursor()
    c.execute(""" DELETE FROM tab1 Where
userid=(%s)""",(self.input.text(),))
    conn.commit()
    c.close()
    print("record deleted successfully")
```

```
self.pushButton.setObjectName("pushButton")
```

output:



```
mysql> select * from tab1;
```

userid	name
4567	jeet
345	raj
677	ram

```
3 rows in set (0.00 sec)
```

```
mysql> select * from tab1;
```

userid	name
345	raj
677	ram

```
2 rows in set (0.00 sec)
```

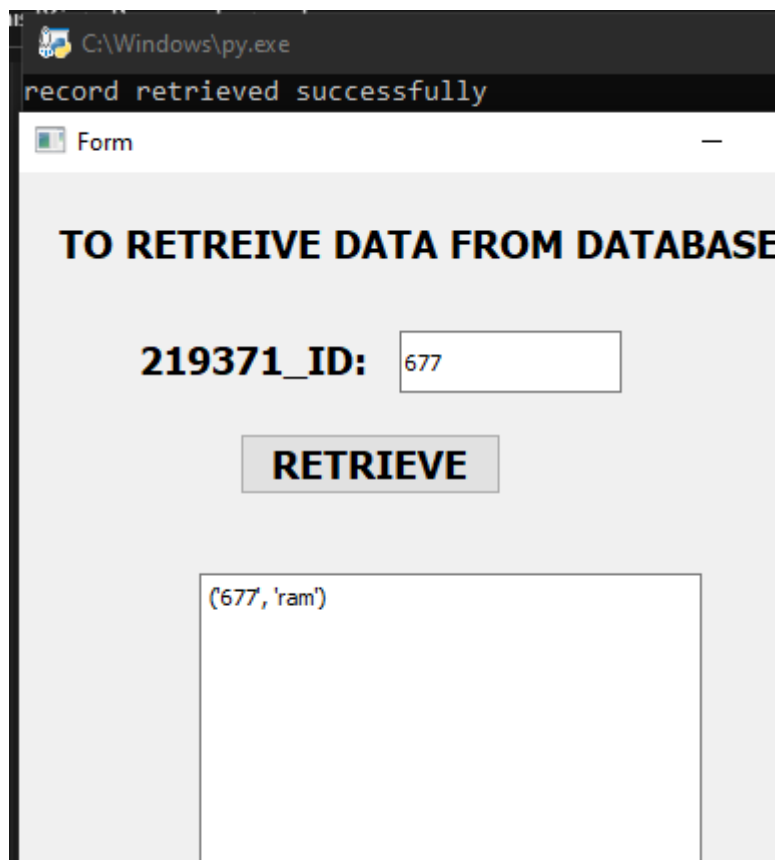
Practical 10

1.Design a Python GUI application to retrieve records from the database

```
def retrieve(self):
    import mysql.connector
    conn=mysql.connector.connect(host='localhost',user='root',password
='imnikhil',database='219371_PP')
    c=conn.cursor()
    c.execute("""SELECT * FROM tab1 WHERE
userid=(%s)""",(self.lineEdit.text(),))
    data=c.fetchone()
    self.textBrowser.setText(str(data))
    conn.commit()
    c.close()
    print("record retrieved successfully")
```

```
self.pushButton.clicked.connect(self.retrieve)
```

output:



2.Design a Python GUI application to insert, update and delete records from the database

```
def insert(self):
    import mysql.connector
    conn=mysql.connector.connect(host='localhost',user='root',password='im
nikhil',database='219371_PP')
    cur=conn.cursor()
    cur.execute("""insert into tab1(userid,name) values
(%s,%s)""",(self.lineEdit.text(),self.lineEdit_2.text()))
    conn.commit()
    cur.close()
    print("record added successfully")
    def update(self):
        import mysql.connector
        conn=mysql.connector.connect(host='localhost',user='root',password='im
nikhil',database='219371_PP')
        c=conn.cursor()
        c.execute("""update tab1 SET userid=(%s) WHERE
name=(%s)""",(self.lineEdit_3.text(),self.lineEdit_4.text()))
        conn.commit()
        c.close()
        print("record update successfully")
    def delete(self):
        import mysql.connector
        conn=mysql.connector.connect(host='localhost',user='root',password='im
nikhil',database='219371_PP')
        c=conn.cursor()
        c.execute(""" DELETE FROM tab1 Where
userid=(%s)""",(self.lineEdit_5.text(),))
        conn.commit()
        c.close()
        print("record deleted successfully")
```

```
self.pushButton.clicked.connect(self.insert)
self.pushButton_2.clicked.connect(self.update)
self.pushButton_3.clicked.connect(self.delete)
```

output:

C:\Windows\py.exe

```
record added successfully  
record update successfully  
record deleted successfully
```

Form

TO INSERT DATA IN DATABASE

219371_ID:

219371_NAME:

INSERT

TO UPDATE DATA IN DATABASE

219371_ID:

219371_NAME:

UPDATE

TO DELETE DATA IN DATABASE

219371_ID:

DELETE


```
+-----+
| userid | name |
+-----+
| 345    | raj  |
| 677    | ram  |
+-----+
2 rows in set (0.00 sec)

mysql> select * from tab1;
+-----+
| userid | name |
+-----+
| 345    | raj  |
| 101    | riya |
+-----+
2 rows in set (0.00 sec)
```