

DBMS PROJECT
STUDENT DATABASE

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CODE:

```
import sys
import sqlite3
from PyQt5.QtWidgets import QApplication
from PyQt5.QtWidgets import QFormLayout,QHBoxLayout
from PyQt5.QtWidgets import QLineEdit,QLabel,QPushButton
from PyQt5.QtWidgets import QWidget
from PyQt5.QtCore import Qt
from PyQt5.QtGui import QIntValidator,QDoubleValidator,QFont
app = QApplication(sys.argv)
import sqlite3
def getdata():
    global l
    l=[]
    data = conn.execute("select * from student")
    for i in data:
        m=[]
        m.append(i[0])
        m.append(i[1])
        m.append(i[2])
        m.append(i[3])
        l.append(m)

def nextclicked():
    global count

    global l,name,rollnum,address
    if count< len(l)-1:
        count+=1
        name.setText(l[count][1])
        rollnum.setText(str(l[count][3]))
        address.setText(l[count][2])
def prevclicked():
    global count

    global l,name,rollnum,address
    if count >0:
        count-=1
```

```
name.setText(l[count][1])
rollnum.setText(str(l[count][3]))
address.setText(l[count][2])
```

```
def clrclicked():
    global l,name,rollnum,address
    name.clear()
    rollnum.clear()
    address.clear()
def addclicked():
    global conn,l,name,rollnum,address
    n=name.text()
    r=rollnum.text()
    a=address.text()
    if n!=" and r!=" and a!=":
        conn.execute("insert into student values(?,?,?,?)",(len(l)+1,n,a,int(r)))
        conn.commit()

    getdata()
def updateclicked():
    global conn,l,name,rollnum,address
    n=name.text()
    r=rollnum.text()
    a=address.text()
    i=l[count].index(int(r))
    print(i)
    if n!=" and r!=" and a!=":
        conn.execute("update student set name=?,rollnum=?,address=? where
rollnum=?", (n,int(r),a,int(r)))
        conn.commit()
    getdata()
def deleteclicked():
    global conn,l,name,rollnum,address
    n=name.text()
    r=rollnum.text()
    a=address.text()

    if n!=" and r!=" and a!=":
        conn.execute("DELETE from student where rollnum=?", (int(r),))
        conn.commit()
    getdata()
window = QWidget()
window.setWindowTitle('QFormLayout')
conn = sqlite3.connect('student.db')
```

```
print("database opened successfully")
```

```
layout = QFormLayout()  
layout2 = QHBoxLayout()  
layout3 = QHBoxLayout()  
column=0  
count=0  
l=[]  
getdata()
```

```
name = QLineEdit(l[column][1])  
name.setAlignment(Qt.AlignLeft)  
name.setFont(QFont("Arial",20))
```

```
namel = QLabel('Name: ')  
namel.setFont(QFont("Arial",20))
```

```
rollnum = QLineEdit(str(l[column][3]))  
rollnum.setAlignment(Qt.AlignLeft)  
rollnum.setFont(QFont("Arial",20))
```

```
rollnuml = QLabel('Roll Number: ')  
rollnuml.setFont(QFont("Arial", 15))
```

```
address = QLineEdit(str(l[column][2]))  
address.setAlignment(Qt.AlignLeft)  
address.setFont(QFont("Arial",20))
```

```
addressl = QLabel('Address: ')  
addressl.setFont(QFont("Arial",20))
```

```
addbtn = QPushButton('Add')  
layout2.addWidget(addbtn)  
updatebtn = QPushButton('UPDATE')  
layout2.addWidget(updatebtn)  
deletebtn = QPushButton('DELETE')  
layout2.addWidget(deletebtn)  
nextbtn = QPushButton('NEXT')  
layout2.addWidget(nextbtn)  
prvbtn = QPushButton('PREVIOUS')  
layout2.addWidget(prvbtn)  
clrbtn = QPushButton('CLEAR')  
layout2.addWidget(clrbtn)
```

```

nextbtn.clicked.connect(nextclicked)
prvbtn.clicked.connect(prevclicked)
clrbtn.clicked.connect(clrclicked)
addbtn.clicked.connect(addclicked)
updatebtn.clicked.connect(updateclicked)
deletebtn.clicked.connect(deleteclicked)

```

```

layout.addRow(namel, name)
layout.addRow(rollnuml, rollnum)
layout.addRow(addressl, address)
layout.addRow(layout2)
layout.addRow(layout3)
window.setLayout(layout)
window.show()

```

```

sys.exit(app.exec_())

```

OUTPUT

