

# CRUD Operation Project

## DATABASE CONNECTIVITY

- DATABASE NAME:- veer\_academy
- PYTHON CODE:-academy\_reg.py
- To install package:--pip install pymysql

```
import pymysql as p
```

```
def connect():
```

```
    return p.connect(host="localhost",  
user="root",password="",database='veer_academy',port=3306)
```

```
def insert(t):
```

```
    con=connect()
```

```
    cu=con.cursor()
```

```
    q="insert into registration values(%s,%s,%s,%s,%s,%s,%s,%s)"
```

```
    cu.execute(q,t)
```

```
    con.commit()
```

```
    con.close()
```

```
def select():
```

```
    con=connect()
```

```
    cu=con.cursor()
```

```
    q="select * from registration"
```

```
    #RegID=int(input("Enter student RegID:"))
```

```
    #q="select * from registration where RegID='{ }'".format(RegID)
```

```
    cu.execute(q)
```

```
    data=cu.fetchall()
```

```
    #for i in data:
```

```
#print(i)
print(data)
con.commit()
con.close()
```

```
def update(id):
```

```
    con=connect()
    cu=con.cursor()
    RegID=input("Enter Student Registration ID you want to Update:")
    q="select * from registration where RegID='{}'.format(RegID)
    cu.execute(q)
    row=cu.fetchone()
    if row==None:
        print("Record Not Found!")
    else:
        print("RegID:",row[0])
        print("1]FullName:",row[1])
        print("2]Education:",row[2])
        print("3]Course:",row[3])
        print("4]DOB:",row[4])
        print("5]Contact:",row[5])
        print("6]Address:",row[6])
        print("7]Exit")
```

```
ch=int(input("Enter which record you want to Update:"))
```

```
p=""
```

```
if ch==1:
```

```
    new_n=input("Enter New Name:")
```

```
    p="FullName='{}'.format(new_n)
```

```
elif ch==2:
```

```
    new_e=input("Enter Education detail:")
```

```

        p="Education='{}'.format(new_e)
    elif ch==3:
        new_c=input("Enter Course Name:")
        p="Course='{}'.format(new_c)
    elif ch==4:
        new_dt=input("Enter New date:")
        p="DOB='{}'.format(new_dt)
    elif ch==5:
        new_con=input("Enter New Contact:")
        p="Contact='{}'.format(new_con)
    elif ch==6:
        new_ad=input("Enter New Address:")
        p="Address='{}'.format(new_ad)
    elif ch==7:
        print("Exit")
    else:
        print("Invalid choice")
    if not p=="":
        qu="update registration set {} where RegID={}".format(p,RegID)
        print(qu)
        cu.execute(qu)
        con.commit()
        print("Record updated Successfully!!!")
    con.close()

```

```

def delete(RegID):
    con=connect()
    cu=con.cursor()
    q="delete from registration where RegID=%s"
    cu.execute(q,RegID)
    con.commit()

```

```
con.close()
```

```
print("Click 1 to Insert Record of Student \nClick 2 to Retrieve Student's Data\nClick 3 to  
Update Student's Data\nClick 4 to Delete Student's data")
```

```
c=int(input("Enter your CHOICE:"))
```

```
if c==1:
```

```
    RegID=int(input("Enter New ID:"))
```

```
    FullName=input("Enter Full Name of Student:")
```

```
    Education=input("Enter Education Of Student:")
```

```
    Course=input("Enter Course Name:")
```

```
    DOB=input("Enter Birth Date:")
```

```
    contact=int(input("Enter Mobile Number:"))
```

```
    Address=input("Enter Address:")
```

```
    t=(RegID,FullName,Education,Course,DOB,contact,Address)
```

```
    insert(t)
```

```
    print("Record Inserted Successfully!!!")
```

```
elif c==2:
```

```
    select()
```

```
elif c==3:
```

```
    update(id)
```

```
elif c==4:
```

```
    ss=input("Enter id you want to delete")
```

```
    delete(ss)
```

```
    print("Record Deleted Successfully!!!")
```

```
else:
```

```
    print("wrong choice!")
```

## OUTPUT:-

### SQL TABLE:-

```
MariaDB [veer_academy]> select * from registration;
```

| RegID | FullName       | Education | Course      | DOB        | contact    | Address     |
|-------|----------------|-----------|-------------|------------|------------|-------------|
| 102   | Anup Kumar     | MA        | INDIAN ARMY | 1993-12-26 | 5416       | Nashik      |
| 103   | vishal kadam   | HSC       | INDIAN NAVY | 1998-05-30 | 0          | Navi Mumbai |
| 104   | Vinayak Gore   | BCOM      | INDIAN ARMY | 1996-11-09 | 7965321    | Jabalpur    |
| 105   | suraj Katkar   | BTECH     | ITBP        | 1999-05-28 | 35431      | Dhule       |
| 107   | Prasad Mahadik | llb       | CISF        | 2000-12-20 | 76416      | Raigad      |
| 108   | pranav shinde  | BCOM      | afcat       | 1999-07-27 | 9874563211 | chiplun     |
| 109   | shib=          | hsc       | bsf         | 2000-12-05 | 951239745  | thane       |

7 rows in set (0.068 sec)

### INSERTING RECORDS:-

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER

▼ TERMINAL

PS C:\Users\HP> & C:/Users/HP/AppData/Local/Microsoft/WindowsApps/python3.9.exe "d:/itvedant assi/python/academy_reg.py"
Click 1 to Insert Record of Student
Click 2 to Retrieve Student's Data
Click 3 to Update Student's Data
Click 4 to Delete Student's data
Enter your CHOICE:1
Enter New ID:110
Enter Full Name of Student:Siddhesh Kadam
Enter Education Of Student:HSC
Enter Course Name:INDIAN ARMY
Enter Birth Date:1996-10-10
Enter Mobile Number:9767795555
Enter Address:Jabalpur
Record Inserted Successfully!!!
PS C:\Users\HP> 
```

0 Connect Ln 114, Col 27

## RETRIEVING RECORDS:-

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
▼ TERMINAL
Enter Birth Date:1996-10-10
Enter Mobile Number:9767795555
Enter Address:Jabalpur
Record Inserted Successfully!!!
PS C:\Users\HP> & C:/Users/HP/AppData/Local/Microsoft/WindowsApps/python3.9.exe "d:/itvedant assi/python/academy_reg.py"
Click 1 to Insert Record of Student
Click 2 to Retrieve Student's Data
Click 3 to Update Student's Data
Click 4 to Delete Student's data
Enter your CHOICE:2
(('102', 'Anup Kumar', 'MA', 'INDIAN ARMY', datetime.date(1993, 12, 26), Decimal('5416'), 'Nashik'), ('103', 'vishal kadam', 'HSC', 'INDIAN NAVY', datetime.date(1998, 5, 30), Decimal('0'), 'Navi Mumbai'), ('104', 'Vinayak Gore', 'BCOM', 'INDIAN ARMY', datetime.date(1996, 11, 9), Decimal('7965321'), 'Jabalpur'), ('105', 'suraj Katkar', 'BTECH', 'ITBP', datetime.date(1999, 5, 28), Decimal('35431'), 'Dhule'), ('107', 'Prasad Mahadik', '11b', 'CISF', datetime.date(2000, 12, 20), Decimal('76416'), 'Raigad'), ('108', 'pranav shinde', 'BCOM', 'afcat', datetime.date(1999, 7, 27), Decimal('9874563211'), 'chiplun'), ('109', 'shib=', 'hsc', 'bsf', datetime.date(2000, 12, 5), Decimal('951239745'), 'thane'), ('110', 'Siddhesh Kadam', 'HSC', 'INDIAN ARMY', datetime.date(1996, 10, 10), Decimal('9767795555'), 'Jabalpur'))
PS C:\Users\HP> █
```

## UPDATING RECORDS:-

```
PS C:\Users\HP> & C:/Users/HP/AppData/Local/Microsoft/WindowsApps/python3.9.exe "d:/itvedant assi/python/academy_reg.py"
Click 1 to Insert Record of Student
Click 2 to Retrieve Student's Data
Click 3 to Update Student's Data
Click 4 to Delete Student's data
Enter your CHOICE:3
Enter Student Registration ID you want to Update:109
RegID: 109
1]FullName: shib=
2]Education: hsc
3]Course: bsf
4]DOB: 2000-12-05
5]Contact: 951239745
6]Address: thane
7]Exit
Enter which record you want to Update:1
Enter New Name:Shivam Shinde
update registration set FullName='Shivam Shinde' where RegID=109
Record updated Successfully!!!
PS C:\Users\HP> █
```

## DELETING RECORDS:-

```
PS C:\Users\HP> & C:/Users/HP/AppData/Local/Microsoft/WindowsApps/python3.9.exe "d:/itvedant assi/python/academy_reg.py"
Click 1 to Insert Record of Student
Click 2 to Retrieve Student's Data
Click 3 to Update Student's Data
Click 4 to Delete Student's data
Enter your CHOICE:4
Enter id you want to delete:103
Record Deleted Successfully!!!
```

## RESULT OF CRUD OPERATION:-

```
MariaDB [veer_academy]> select * from registration;
```

| RegID | FullName       | Education | Course      | DOB        | contact    | Address  |
|-------|----------------|-----------|-------------|------------|------------|----------|
| 102   | Anup Kumar     | MA        | INDIAN ARMY | 1993-12-26 | 5416       | Nashik   |
| 104   | Vinayak Gore   | BCOM      | INDIAN ARMY | 1996-11-09 | 7965321    | Jabalpur |
| 105   | suraj Katkar   | BTECH     | ITBP        | 1999-05-28 | 35431      | Dhule    |
| 107   | Prasad Mahadik | llb       | CISF        | 2000-12-20 | 76416      | Raigad   |
| 108   | pranav shinde  | BCOM      | afcat       | 1999-07-27 | 9874563211 | chiplun  |
| 109   | Shivam Shinde  | hsc       | bsf         | 2000-12-05 | 951239745  | thane    |
| 110   | Siddhesh Kadam | HSC       | INDIAN ARMY | 1996-10-10 | 9767795555 | Jabalpur |

```
7 rows in set (0.001 sec)
```