

# PROJECT – 1

## 1). Personal Address Book using python and MYSQL

person id  
person name  
address  
city  
state  
mno-1  
mno-2  
type  
Date of birth  
age  
blood group

Module :

1. login module (username, password)
2. create a Address Book
3. adding Module
4. update module
5. delete module (Spam)
6. Query filtering
  - 6.1 search based name
  - 6.2 search based on blood group
  - 6.3 search based on address
  - 6.4 search based on name to get the mobile number
  - 6.5 search based on type of relation

```
c:\wamp\bin\mysql\mysql5.6.17\bin\mysql.exe

mysql> alter table personal_address modify column DateOfBirth date;
ERROR 1054 (42S22): Unknown column 'DateOfBirth' in 'personal_address'
mysql> alter table personal_address modify column DateOfBirth date;
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc personal_address;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| person_id | int(11) | YES | | NULL | |
| person_name | varchar(20) | YES | | NULL | |
| address | varchar(20) | YES | | NULL | |
| city | varchar(20) | YES | | NULL | |
| state | varchar(20) | YES | | NULL | |
| mno1 | bigint(20) | YES | | NULL | |
| mno2 | bigint(20) | YES | | NULL | |
| relation_type | varchar(20) | YES | | NULL | |
| DateOfBirth | date | YES | | NULL | |
| age | int(11) | YES | | NULL | |
| blood_group | varchar(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.02 sec)

mysql> insert into personal_address values(1,'arun','Rettarkulam','Tirunelveli','Tamilnadu','8756457687','9865457467','brother','13/5/2001',20,'B+');
Query OK, 1 row affected, 1 warning (0.07 sec)

mysql> select * from personal_address;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| person_id | person_name | address | city | state | mno1 | mno2 | relation_type | DateOfBirth | age | blood_group |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | arun | Rettarkulam | Tirunelveli | Tamilnadu | 8756457687 | 9865457467 | brother | 0000-00-00 | 20 | B+ |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> insert into personal_address values(1,'arun','Rettarkulam','Tirunelveli','Tamilnadu','8756457687','9865457467','brother','2001-5-13',20,'B+');
Query OK, 1 row affected (0.01 sec)

mysql> select * from personal_address;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| person_id | person_name | address | city | state | mno1 | mno2 | relation_type | DateOfBirth | age | blood_group |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | arun | Rettarkulam | Tirunelveli | Tamilnadu | 8756457687 | 9865457467 | brother | 0000-00-00 | 20 | B+ |
| 1 | arun | Rettarkulam | Tirunelveli | Tamilnadu | 8756457687 | 9865457467 | brother | 2001-05-13 | 20 | B+ |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> update personal_address set DateOfBirth='1998-4-19' where person_id=1;
```

```
c:\wamp\bin\mysql\mysql5.6.17\bin\mysql.exe
Server version: 5.6.17 MySQL Community Server (GPL)

Copyright (c) 2000, 2014, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| addressbook |
| customer |
| mysql |
| performance_schema |
| pydb |
+-----+
6 rows in set (0.00 sec)

mysql> use addressbook;
Database changed
mysql> show tables;
+-----+
| Tables_in_addressbook |
+-----+
| personal_address |
+-----+
1 row in set (0.00 sec)

mysql> desc personal_address;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| person_id | int(11) | YES | | NULL | |
| person_name | varchar(20) | YES | | NULL | |
| address | varchar(30) | YES | | NULL | |
| city | varchar(20) | YES | | NULL | |
| state | varchar(20) | YES | | NULL | |
| mno1 | bigint(20) | YES | | NULL | |
| mno2 | bigint(20) | YES | | NULL | |
| relation_type | varchar(20) | YES | | NULL | |
| Dateofbirth | bigint(20) | YES | | NULL | |
| age | int(11) | YES | | NULL | |
| blood_group | varchar(10) | YES | | NULL | |
+-----+
```

```
c:\wamp\bin\mysql\mysql5.6.17\bin\mysql.exe

mysql> insert into personal_address values(1,'arun','Rettarkulam','Tirunelveli','Tamilnadu','8756457687','9865457467','brother','2001-5-13',20,'B+');
Query OK, 1 row affected (0.01 sec)

mysql> insert into personal_address values(2,'muthu','Rettarkulam','Tirunelveli','Tamilnadu','9956457698','8654576474','sister','1998-7-17',23,'B-');
Query OK, 1 row affected (0.01 sec)

mysql> insert into personal_address values(3,'raja','Rettarkulam','Tirunelveli','Tamilnadu','9566457698','7854576456','uncle','1985-4-30',55,'O+');
Query OK, 1 row affected (0.01 sec)

mysql> insert into personal_address values(4,'durai','Rettarkulam','Tirunelveli','Tamilnadu','9566457698','7854576456','friend','1998-11-21',23,'A-');
Query OK, 1 row affected (0.01 sec)

mysql> select * from personal_address;
+-----+
| person_id | person_name | address | city | state | mno1 | mno2 | relation_type | Dateofbirth | age | blood_group |
+-----+
| 1 | arun | Rettarkulam | Tirunelveli | Tamilnadu | 8756457687 | 9865457467 | brother | 2001-05-13 | 20 | B+ |
| 2 | muthu | Rettarkulam | Tirunelveli | Tamilnadu | 9956457698 | 8654576474 | sister | 1998-07-17 | 23 | B- |
| 3 | raja | Rettarkulam | Tirunelveli | Tamilnadu | 9566457698 | 7854576456 | uncle | 1985-04-30 | 55 | O+ |
| 4 | durai | Rettarkulam | Tirunelveli | Tamilnadu | 9566457698 | 7854576456 | friend | 1998-11-21 | 23 | A- |
+-----+
4 rows in set (0.00 sec)

mysql>
```



```
D:\notepad++\Python\Programs\project.py - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
py31.py py32.py py33.py py34.py py35.py py36.py py37.py py38.py py39.py ex3.py ex4.py project.py
60
61 #Query filtering
62 person_name=input("Enter your name: ")
63 cmd3="select * from personal_address where person_name='%s'"%(person_name)
64 cur.execute(cmd3)
65 blood_group=input("Enter your blood group: ")
66 cmd4="select * from personal_address where blood_group='%s'"%(blood_group)
67 cur.execute(cmd4)
68 address=input("Enter address: ")
69 cmd5="select * from personal_address where address='%s'"%(address)
70 cur.execute(cmd5)
71 mno1=int(input("Enter mobile number: "))
72 cmd6="select * from personal_address where mno1='%d'"%(mno1)
73 cur.execute(cmd6)
74 relation_type=input("Enter the relation type: ")
75 cmd7="select * from personal_address where relation_type='%s'"%(relation_type)
76 cur.execute(cmd7)
77 ans2=cursor.fetchall()
78 for x in ans2:
79     print(x[0],x[1],x[2],x[3],x[4])
80
81 db.commit()
82 select()
83 insert()
84 update()
85 delete()
86
87 db.close()
88
Python file length: 2,533 lines: 88 Ln: 84 Col: 9 Pos: 2,508 Windows (CR LF) UTF-8 INS 09:02 20-05-2022
```

```
D:\notepad++\Python\Programs\project.py - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
py31.py py32.py py33.py py34.py py35.py py36.py py37.py py38.py py39.py ex3.py ex4.py project.py
1 import mysql.connector
2
3 db=mysql.connector.connect(host="localhost",user="root",password="",database="addressbook")
4
5 #login module
6 cur=db.cursor()
7 a="ponkumar"
8 b="1212128Ab"
9 username=input("Enter your username: ")
10 password=input("Enter your password: ")
11 if username==a and password==b:
12     print("Username and password is correct")
13 else:
14     print("Username and password is not correct")
15
16 def select():
17     cur=db.cursor()
18     cmd="select * from personal_address"
19     cur.execute(cmd)
20     result=cursor.fetchall()
21     for x in result:
22         print(x[0],x[1],x[2],x[3],x[4],x[5],x[6],x[7],x[8],x[9],x[10])
23     db.commit()
24
25 #adding module
26 def insert():
27     cur=db.cursor()
28     cmd1="insert into personal_address values (4,'sundar','Tambaram','Chennai','Tamil Nadu','1234567890','1234567890','1234567890','1234567890','1234567890','1234567890')"
29     cur.execute(cmd1)
30     data=cursor.fetchone()
31     print(data)
32     db.commit()
33     print("inserted successfully")
34
35 #update module
36 def update():
37     cur=db.cursor()
38     age=int(input("Enter your age: "))
39     person_id=int(input("Enter your id: "))
40     cmd2="update personal_address set age='%d' where person_id='%d'"%(age,person_id)
41     cur.execute(cmd2)
42     ans=cursor.fetchone()
43     print(ans)
44     db.commit()
45
Python file length: 2,533 lines: 88 Ln: 84 Col: 9 Pos: 2,508 Windows (CR LF) UTF-8 INS 09:03 20-05-2022
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22000.675]
(c) Microsoft Corporation. All rights reserved.

D:\notepad++\Python\Programs>python project.py
Traceback (most recent call last):
  File "D:\notepad++\Python\Programs\project.py", line 1, in <module>
    import mysql.connector
  File "C:\Users\ponku\AppData\Roaming\Python\Python310\site-packages\mysql\connector\__init__.py", line 53, in <module>
    from .connection import MySQLConnection
  File "C:\Users\ponku\AppData\Roaming\Python\Python310\site-packages\mysql\connector\connection.py", line 32, in <module>
    from decimal import Decimal
  File "C:\Program Files\python 3.10\lib\decimal.py", line 3, in <module>
    from _decimal import *
AttributeError: module 'numbers' has no attribute 'Number'
```

## OUTPUT:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22000.675]
(c) Microsoft Corporation. All rights reserved.

D:\notepad++\Python\Programs>project.py
1 arun Rettarkulam Tirunelveli Tamilnadu 8756457687 9865457467 brother 2001-05-13 20 B+
2 muthu Rettarkulam Tirunelveli Tamilnadu 9956457698 8654576474 sister 1998-07-17 22 B-
3 raja Rettarkulam Tirunelveli Tamilnadu 9566457698 7854576456 uncle 1985-04-30 55 O+
None
Inserted successfully
Enter your age: 23
Enter your id: 2
None
update successfully
Enter your id: 4
Are you sure to delete:(yes/no): no
Deleted successfully
Enter your name: raja
(3, 'raja', 'Rettarkulam', 'Tirunelveli', 'Tamilnadu', 9566457698, 7854576456, 'uncle', datetime.date(1985, 4, 30), 55, 'O+')
Enter address: Rettarkulam
(1, 'arun', 'Rettarkulam', 'Tirunelveli', 'Tamilnadu', 8756457687, 9865457467, 'brother', datetime.date(2001, 5, 13), 20, 'B+')
Enter mobile number: 8756457687
(1, 'arun', 'Rettarkulam', 'Tirunelveli', 'Tamilnadu', 8756457687, 9865457467, 'brother', datetime.date(2001, 5, 13), 20, 'B+')
Enter the relation type: sister
(2, 'muthu', 'Rettarkulam', 'Tirunelveli', 'Tamilnadu', 9956457698, 8654576474, 'sister', datetime.date(1998, 7, 17), 23, 'B-')
D:\notepad++\Python\Programs>
```