

Họ và tên: Ngô Long Vũ

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Câu 1:

```
import sqlite3

with sqlite3.connect("PhoneBook.db") as db:
    cursor = db.cursor()

    """cursor.execute('''CREATE TABLE Names
    (ID INTEGER PRIMARY KEY,
    FirstName TEXT NOT NULL,
    SurName TEXT NOT NULL,
    PhoneNumber TEXT)''')"""

    newID = input("Nhap ID cua ban: ")
    newFirstName = input("Nhap FirstName cua ban: ")
    newLastName = input("Nhap Surname cua ban: ")
    newPhone = input("Nhap phone cua ban: ")
    cursor.execute("""INSERT INTO Names (ID, FirstName, SurName, PhoneNumber)
    VALUES (?, ?, ?, ?)""", (newID, newFirstName, newLastName, newPhone))

db.commit()
```

kết quả:

The screenshot shows the DB Browser for SQLite interface. The main window displays a table named 'Names' with the following data:

ID	FirstName	SurName	PhoneNumber
1	Simon	Howels	0989892482
2	Karen	Phillips	0898245185
3	Darren	Smith	0212313131
4	Anne	Jones	0132356731
5	Mark	Smith	01231315155

The interface also shows the 'Edit Database Cell' panel on the right, which is currently empty. The bottom status bar indicates the file encoding is UTF-8.

Câu 2:

```
import sqlite3

with sqlite3.connect("PhoneBook.db") as db:
    cursor = db.cursor()

    while True:
        print("\nMain Menu:")
        print("1) View phone book")
        print("2) Add to phone book")
        print("3) Search for surname")
        print("4) Delete person from phone book")
        print("5) Quit")

        choice = input("Nhập lựa chọn của bạn (1-5): ")

        if choice == '1':
            cursor.execute("SELECT * FROM Names")
            rows = cursor.fetchall()
            for row in rows:
                print(row)

        elif choice == '2':
            first_name = input("First Name: ")
            last_name = input("Surname: ")
            phone_number = input("Phone Number: ")
            cursor.execute("INSERT INTO Names (FirstName, SurName,
PhoneNumber) VALUES (?, ?, ?)",
                           (first_name, last_name, phone_number))
            db.commit()
            print("thêm mới thành công!")

        elif choice == '3':
            last_name = input("nhập họ cần tìm: ")
            cursor.execute("SELECT * FROM Names WHERE SurName=?",
                           (last_name,))
            rows = cursor.fetchall()
            for row in rows:
                print(row)

        elif choice == '4':
            id = int(input("nhập id muốn xóa: "))
            cursor.execute("DELETE FROM Names WHERE ID=?", (id,))
            db.commit()
            print(f"đã xóa id {id}")

        elif choice == '5':
            print("Bye!")
            break

        else:
            print("chọn sai hay thử lại.")
```

kết quả:

Main Menu:

- 1) View phone book
- 2) Add to phone book
- 3) Search for surname
- 4) Delete person from phone book
- 5) Quit

Nhập lựa chọn của bạn (1-5): 1

- (1, 'Simon', 'Howels', '0989892482')
- (2, 'Karen', 'Phillips', '0898245185')
- (3, 'Darren', 'Smith', '0212313131')
- (4, 'Anne', 'Jones', '0132356731')
- (5, 'Mark', 'Smith', '01231315155')

Main Menu:

- 1) View phone book
- 2) Add to phone book
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- 4) Delete person from phone book
- 5) Quit

Nhập lựa chọn của bạn (1-5): 2

First Name: *Ngo Long VU*

Surname: *Ngo*

Phone Number: *0332265689*

them moi thanh cong!

Main Menu:

- 1) View phone book
- 2) Add to phone book
- 3) Search for surname
- 4) Delete person from phone book
- 5) Quit

Nhập lựa chọn của bạn (1-5): 3

nhap ho can tim: *Ngo*

(6, 'Ngo Long VU', 'Ngo', '0332265689')

Main Menu:

- 1) View phone book
- 2) Add to phone book
- 3) Search for surname
- 4) Delete person from phone book
- 5) Quit

Nhập lựa chọn của bạn (1-5): 4

nhap id muon xoa: *6*

da xoa id 6