Experiment No. 13
Program to demonstrate CRUD (create, read, delete) operations on database (SQLite/ MyS python
Date of Performance:

Vidyavardhini's College of Engineering &

Department of Computer Engineerir

Experiment No

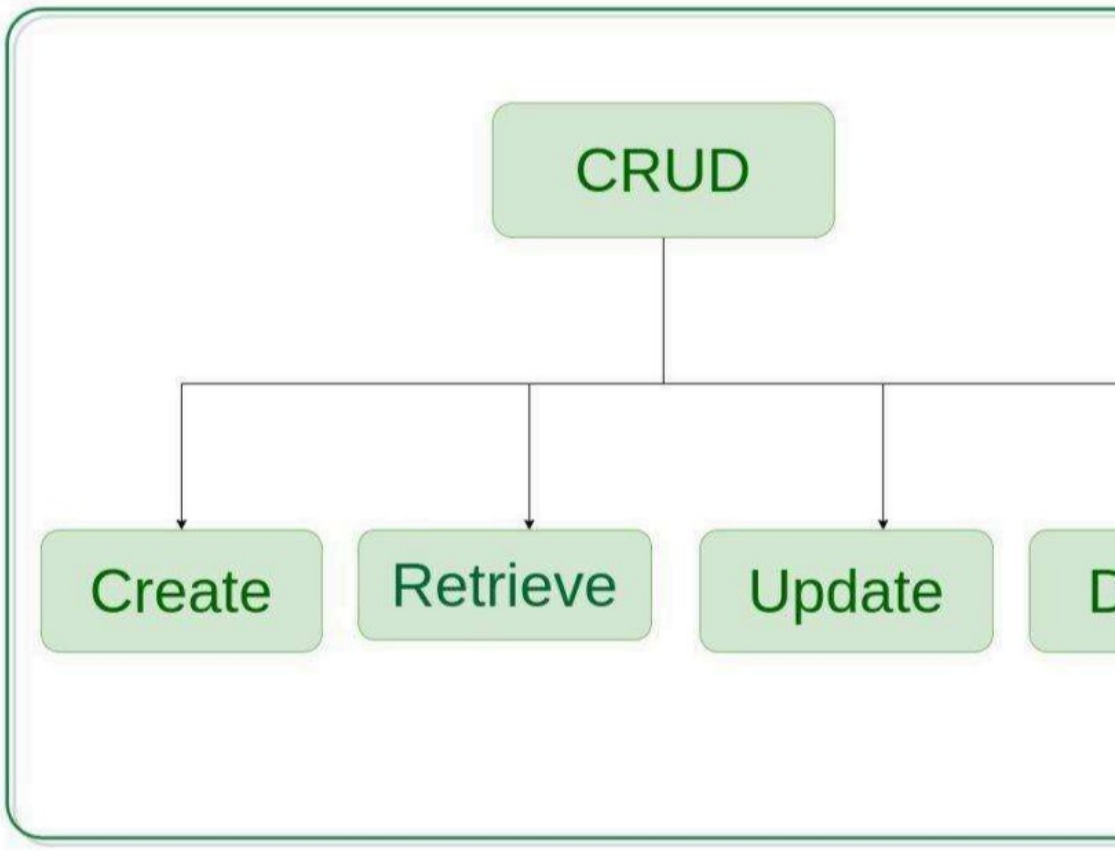
Title: Program to demonstrate CRUD (create, read, update and delete) oper
(SQLite/ MySQL) using p

Aim: To study and implement CRUD (create, read, update and delete) oper
(SQLite/ MySQL) using p

Objective: To introduce database connectivity

Theor

In general CRUD means performing Create, Retrieve, Update and Delete o
table in a database. Let's discuss what actually CRUD means,



Code:

```
import sqli

conn = sqlite3.connect('da

cursor = conn.cursor()

cursor.execute('''CREATE TABLE IF NOT EXIST

        (id INTEGER PRIMARY KEY, name TEXT, age INTEGER, pc


cursor.execute("INSERT INTO employees (name, age, position) VALU
'Manager'

cursor.execute("INSERT INTO employees (name, age, position) VALU
'Developer'

cursor.execute("INSERT INTO employees (name, age, position) VALU
'Analyst'

cursor.execute("INSERT INTO employees (name, age, position) VALUI
'Designer'

cursor.execute("INSERT INTO employees (name, age, position) VALU
'Engineer'

conn.commit()


cursor.execute("SELECT * FROM em

rows = cursor.fetchall()

print("Records in the employees

for row in rows:

  print(ro
```

```
cursor.execute("UPDATE employees SET age = 18 WHERE n
conn.commit()
print("\nAfter updating Siddhi'
cursor.execute("SELECT * FROM em
rows = cursor.fetchall()
for row in rows:
    print(ro

cursor.execute("DELETE FROM employees WHERE nam
conn.commit()
print("\nAfter deleting Revansh's
cursor.execute("SELECT * FROM em
rows = cursor.fetchall()
for row in rows:
    print(ro

conn.close()
```

Output:

```
Records in the employees table:
(1, 'Siddhi', 20, 'Manager')
(2, 'Kashif', 20, 'Developer')
(3, 'Deepak', 20, 'Analyst')
(4, 'Reyansh', 14, 'Designer')
(5, 'Omkar', 19, 'Engineer')

After updating Siddhi's age:
(1, 'Siddhi', 18, 'Manager')
(2, 'Kashif', 20, 'Developer')
(3, 'Deepak', 20, 'Analyst')
(4, 'Reyansh', 14, 'Designer')
(5, 'Omkar', 19, 'Engineer')
```

Conclusion:

we have demonstrated how to perform CRUD operations (Create, Read, U
database using Python and SQLite. We started by creating a SQLite datab
a table named 'employees'. Then, we inserted data into the table, read th
entry, and deleted a record. Throughout the process, we utilized SQLite c
through Python's sqlite3 m