

Vidyavardhini's College of Engineering & Technology Department of Computer Engineering

Experiment No. 8

Program to demonstrate CRUD (create, read, update and delete) operations on database (SQLite/ MySQL) using python

Date of Performance:

Date of Submission:



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Experiment No. 8

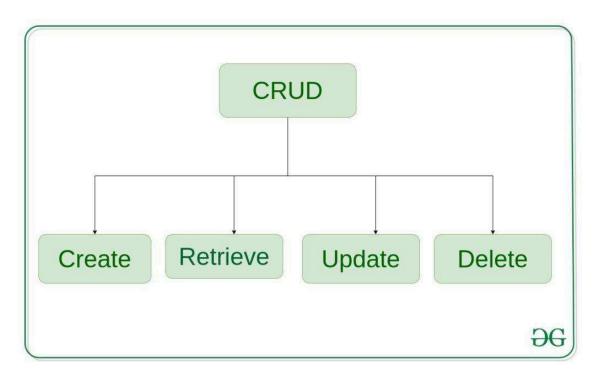
Title: Program to demonstrate CRUD (create, read, update and delete) operations on database (SQLite/ MySQL) using python

Aim: To study and implement CRUD (create, read, update and delete) operations on database (SQLite/ MySQL) using python

Objective: To introduce database connectivity with python

Theory:

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



Create – create or add new entries in a table in the database.

Retrieve – read, retrieve, search, or view existing entries as a list(List View) or retrieve a particular entry in detail (Detail View)

Update – update or edit existing entries in a table in the database

Delete – delete, deactivate, or remove existing entries in a table in the database



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Code:

```
import sqlite3
conn = sqlite3.connect('mydatabase.db')
cursor = conn.cursor()
cursor.execute('''
def create user(name, age):
(name, age))
   conn.commit()
   print('User created successfully!')
def read users():
   users = cursor.fetchall()
       for user in users:
```



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```
def update user(user id, name, age):
age, user id))
   conn.commit()
def delete_user(user_id):
def main():
   update_user(1, 'Alice Smith', 26)
```



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```
delete_user(2)

print('---After Deletion---')

read_users()

if __name__ == "__main__":
    main()

conn.close()
```

Output:

User created successfully!
User created successfully!

---Users---

ID: 1, Name: Alice, Age: 25

ID: 2, Name: Bob, Age: 30

User updated successfully!

---Updated Users---

ID: 1, Name: Alice Smith, Age: 26

ID: 2, Name: Bob, Age: 30

User deleted successfully!

---After Deletion---



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ID: 1, Name: Alice Smith, Age: 26

Conclusion: CRUD operations has been studied and implemented.