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EXPERIMENT - 9

Here we will discuss all the CRUD operations on the SQLite3 database using Python. CRUD contains four major operations –



Code:

```
# Import module import sqlite3

# Connecting to sqlite conn = sqlite3.connect('hello.db')

# Creating a cursor object using # the cursor() method mycursor = conn.cursor()

mycursor.execute("create table student (stud_id INT(6) PRIMARY KEY, name VARCHAR(20), marks INT);")

for x in mycursor: print(x) mycursor.execute("alter table student add column division VARCHAR(1);") print('(attribute, type, null, key, default, extra)')
```



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```
for x in mycursor:
  print(x)
mycursor.execute("insert into student (stud_id, name, marks, division) values
(1,'Harry',98,'A');")
mycursor.execute("insert into student (stud_id, name, marks, division) values
(2,'James',37,'B');")
mycursor.execute("insert into student (stud_id, name, marks, division) values
(3,'Draco',92,'C');")
conn.commit()
mycursor.execute("select * from student;")
myresult = mycursor.fetchall()
for x in myresult:
  print(f'\{x[0]\}\t\{x[1]\}\t\{x[2]\}\t\{x[3]\}')
mycursor.execute("update student set marks = 99 where name = 'Harry',")
conn.commit()
print(mycursor.rowcount, "record(s) affected")
mycursor.execute("select * from student;")
myresult = mycursor.fetchall()
for x in myresult:
  print(f'\{x[0]\}\t\{x[1]\}\t\{x[2]\}\t\{x[3]\}')
mycursor.execute("delete from student where division = 'B';")
conn.commit()
print(mycursor.rowcount, "record(s) deleted")
mycursor.execute("select * from student;")
myresult = mycursor.fetchall()
for x in myresult:
  print(f'\{x[0]\}\t\{x[1]\}\t\{x[2]\}\t\{x[3]\}')
mycursor.execute("drop table if exists student;")
for x in mycursor:
  print(x)
```

Output:

```
(attribute, type, null, key, default, extra)

1 Harry 98 A

2 James 37 B

3 Draco 92 C

1 record(s) affected

1 Harry 99 A

2 James 37 B

3 Draco 92 C

1 record(s) deleted
```



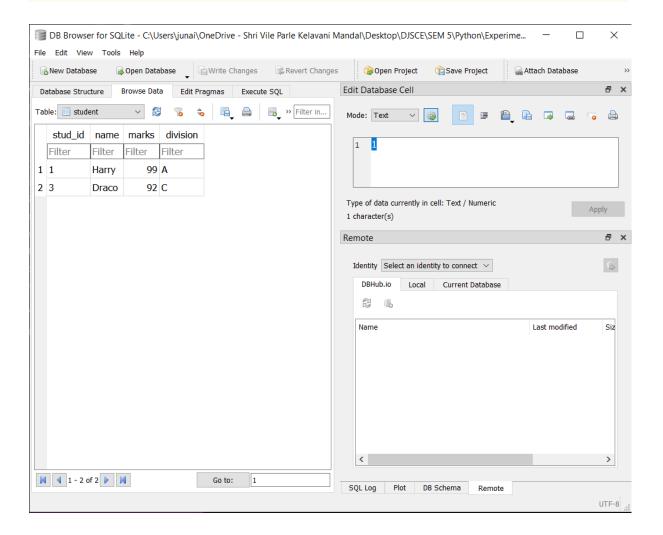
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- 1 Harry 99 A
- 3 Draco 92 C



Conclusion:

We learnt about executing SQL commands in python and implemented a python program implementing CRUD functionality.