



Shri Vile Parle Kelavani Mandal's

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

(Autonomous College Affiliated to the University of Mumbai)

NAAC Accredited with "A" Grade (CGPA : 3.18)



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TE COMPS A4

EXPERIMENT - 9

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

C	→	Create
R	→	Read
U	→	Update
D	→	Delete

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)')
```



```
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
```



1 Harry 99 A
3 Draco 92 C

DB Browser for SQLite - C:\Users\junai\OneDrive - Shri Vile Parle Kelavani Mandal\Desktop\DJSC\SEM 5\Python\Experime...

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes Open Project Save Project Attach Database

Database Structure Browse Data Edit Pragmas Execute SQL

Table: student

	stud_id	name	marks	division
	Filter	Filter	Filter	Filter
1	1	Harry	99	A
2	3	Draco	92	C

1 1

Type of data currently in cell: Text / Numeric
1 character(s)

Apply

Remote

Identity Select an identity to connect

DBHub.io Local Current Database

Name	Last modified	Size
------	---------------	------

SQL Log Plot DB Schema Remote

UTF-8

Conclusion:

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