

```

import sqlite3 # sql ma kaam garna lai

#connection garne data base ma kaam garna lai

con = sqlite3.connect('students.sqlite3')

#cursor ko through bata insert haru kaam garne

cur = con.cursor() # yo 3ota kura sadhai garne

create_table_query = """

CREATE TABLE student(
id int primary key,
name varchar not null,
address varchar not null,
college varchar not null,
age int not null,
gender varchar(1) not null,
faculty varchar not null

);

"""

cur.execute(create_table_query)

<sqlite3.Cursor at 0x25b756c3a40>

insert_records = """

INSERT INTO student
('id', 'name', 'address', 'college', 'age', 'gender', 'faculty')
VALUES
(1, 'ram', 'kathmandu', 'ncit', 18, 'm', 'IT'),
(2, 'shyam', 'lalitpur', 'islington', 20, 'f', 'CSIT'),
(3, 'gita', 'pokhara', 'ncit', 21, 'm', 'SE'),
(4, 'sita', 'kathmandu', 'ioe pulchowk', 24, 'f', 'CE');

"""

cur.execute(insert_records)

<sqlite3.Cursor at 0x25b756c3a40>

#pyhthon ko memorty bata harddisk ma rakna lai

con.commit()

students = cur.execute("SELECT * from student;")

for student in students:
    print(student)

(1, 'ram', 'kathmandu', 'ncit', 18, 'm', 'IT')
(2, 'shyam', 'lalitpur', 'islington', 20, 'f', 'CSIT')
(3, 'gita', 'pokhara', 'ncit', 21, 'm', 'SE')
(4, 'sita', 'kathmandu', 'ioe pulchowk', 24, 'f', 'CE')

# data related kaam garda matra commit use garne

cur.execute("ALTER table student add university varchar default 'TU';")

<sqlite3.Cursor at 0x25b756c3a40>

students = cur.execute("SELECT * from student;")

for student in students:
    print(student)

```

```

➦ (1, 'ram', 'kathmandu', 'ncit', 18, 'm', 'IT', 'TU')
  (2, 'shyam', 'lalitpur', 'islington', 20, 'f', 'CSIT', 'TU')
  (3, 'gita', 'pokhara', 'ncit', 21, 'm', 'SE', 'TU')
  (4, 'sita', 'kathmandu', 'ioe pulchowk', 24, 'f', 'CE', 'TU')

```

```
students = cur.execute("SELECT * from student WHERE address = 'lalitpur';")
```

```
for student in students:
    print(student)
```

```
➦ (2, 'shyam', 'lalitpur', 'islington', 20, 'f', 'CSIT', 'TU')
```

```
address = input("Enter the address")
```

```
students = cur.execute(f"SELECT * from student WHERE address = '{address}';")
```

```
for student in students:
    print(student)
```

```

➦ Enter the address kathmandu
  (1, 'ram', 'kathmandu', 'ncit', 18, 'm', 'IT', 'TU')
  (4, 'sita', 'kathmandu', 'ioe pulchowk', 24, 'f', 'CE', 'TU')

```

```
# sql injection
```

```
address = input("Enter the address")
```

```
students = cur.execute(f"SELECT * from student WHERE address = '{address}';")
```

```
for student in students:
    print(student)
```

```
#sql inject vayo
```

```

➦ Enter the address lalitpur' or true or address = 'kathmandu
  (1, 'ram', 'kathmandu', 'ncit', 18, 'm', 'IT', 'TU')
  (2, 'shyam', 'lalitpur', 'islington', 20, 'f', 'CSIT', 'TU')
  (3, 'gita', 'pokhara', 'ncit', 21, 'm', 'SE', 'TU')
  (4, 'sita', 'kathmandu', 'ioe pulchowk', 24, 'f', 'CE', 'TU')

```

```
# SELECT * from student where address = 'lalitpur or true or address = 'kathmandu';
```

```
address = input("Enter the address")
```

```
students = cur.execute("""SELECT * from student WHERE address = ?;""",(address,)) # sql injection hatauna lai
```

```
for student in students:
    print(student)
```

```

➦ Enter the address lalitpur
  (2, 'shyam', 'lalitpur', 'islington', 20, 'f', 'CSIT', 'TU')

```

```
student = (8, 'ramesh pradhan', 'lalitpur', 'ncit',23,'m', 'IT', 'TU')
```

```

INSERT_RECORDS = """
INSERT into student
('id', 'name', 'address', 'college', 'age', 'gender', 'faculty', 'university')
values
(?, ?, ?, ?, ?, ?, ?, ?);

```

```

"""
cur.execute(INSERT_RECORDS, student)
con.commit()

```

```

students = [
(12, 'hari bahadur', 'lalitpur', 'ncit', 23, 'm', 'SE', 'PU'),
(13, 'madan bahadur', 'kathmandu', 'british college', 24, 'm', 'IT', 'UK'),
(14, 'maya devi', 'lalitpur', 'ncit', 21, 'f', 'CE', 'PU')

```

```
]
```

```
INSERT_RECORDS = """
INSERT into student
('id', 'name', 'address', 'college', 'age', 'gender','faculty','university')
values
(?,?,?,?,?,?,?,?);

"""

for student in students:
    cur.execute(INSERT_RECORDS, student) # single write at a time
    con.commit()

#derai data xa vane yo use garne

students = [
(115,'hari bahadur', 'lalitpur', 'ncit', 23,'m','SE','PU'),
(116,'madan bahadur', 'kathmandu', 'british college', 24,'m','IT','UK'),
(117,'maya devi', 'lalitpur', 'ncit', 21,'f','CE','PU')

]

INSERT_RECORDS = """
INSERT into student
('id', 'name', 'address', 'college', 'age', 'gender','faculty','university')
values
(?,?,?,?,?,?,?,?);

"""

cur.executemany(INSERT_RECORDS, students) # insert at once=>bulk
con.commit()
```

Start coding or [generate](#) with AI.