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FP Practical 11

Institute of Computer Technology
B. Tech Computer Science and Engineering

Sub: (2CSE403) FUNCTIONAL PROGRAMMING

Practical 11

A college wants to maintain the student records. The repository should contain student details like: student id (sid), name, contact number, status (alumni / current student). Firstly, all the details of students enrolled for a course should be inserted in the tabular form. In case if admin department notices that by mistake one entry has been wrongly made; so update w.r.t the record is required. There is a scenario wherein duplicate entries have been made and admin has to remove it. Finally, after performing above operations admin is supposed to fetch the records related to current students. Kindly perform the above operations using python script.

Code:

```
import sqlite3 as sq
from pandas import DataFrame as df
from YSL_io import *

c = sq.connect('prac_11.db')
c.execute('create table if not exists stdnt(id int primary key, name text,
contact text, status text)')

s = [
    [64, 'Madhava', '0123456789', 'current'],
```

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```
[32, 'Keshava', '1234567890', 'current'],
[22, 'Govinda', '9876543210', 'alumni'],
[16, 'Gopinath', '0987654321', 'current'],
[18, 'Govinda', '9876543210', 'alumni']
]

# Inserting records
for i in s:
    c.execute(f'insert into stdnt values ({str(i[0])}, "{i[1]}", "{i[2]}",
"{i[3]}"')
    c.commit()

# Updating a record
c.execute(f'update stdnt set contact = "6432015789" where id = {s[1][0]}')
c.commit()

# Deleting a duplicate record
c.execute(f'delete from stdnt where id = {s[4][0]}')
c.commit()

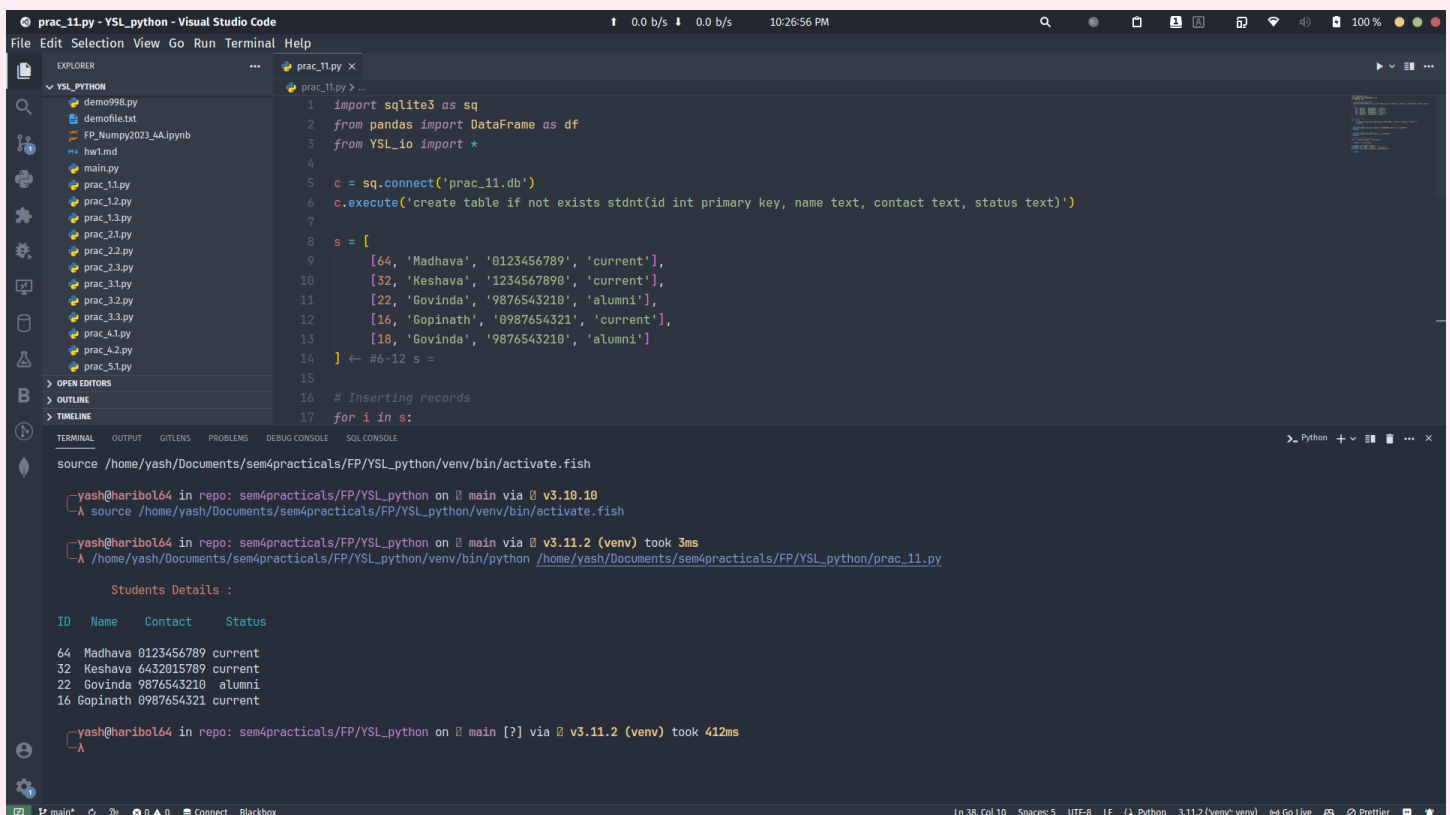
# Fetching data and printing
data = c.execute('select * from stdnt')

y = df(data, columns=None)
```

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```
printORNG('\n\tStudents Details : ')\n\nprintGRN('\nID      Name      Contact      Status\n')\n\nprint(f'{y.to_string(index=False, header=False)}')\n\n\n\nc.close()
```

Output :



The screenshot shows a Visual Studio Code editor with a Python script named `prac_11.py` and its terminal output. The script uses `sqlite3` and `pandas` to create a database, insert records, and display them. The terminal output shows the execution of the script, including the activation of the virtual environment and the resulting table of student details.

```
1 import sqlite3 as sq
2 from pandas import DataFrame as df
3 from YSL_io import *
4
5 c = sq.connect('prac_11.db')
6 c.execute('create table if not exists stdnt(id int primary key, name text, contact text, status text)')
7
8 s = [
9     [64, 'Madhava', '0123456789', 'current'],
10    [32, 'Keshava', '1234567890', 'current'],
11    [22, 'Govinda', '9876543210', 'alumni'],
12    [16, 'Gopinath', '0987654321', 'current'],
13    [18, 'Govinda', '9876543210', 'alumni']
14 ] ← #6-12 s =
15
16 # Inserting records
17 for i in s:
```

Terminal Output:

```
source /home/yash/Documents/sem4practicals/FP/YSL_python/venv/bin/activate.fish
yash@haribol64 in repo: sem4practicals/FP/YSL_python on main via v3.10.10
source /home/yash/Documents/sem4practicals/FP/YSL_python/venv/bin/activate.fish
yash@haribol64 in repo: sem4practicals/FP/YSL_python on main via v3.11.2 (venv) took 3ms
/home/yash/Documents/sem4practicals/FP/YSL_python/venv/bin/python /home/yash/Documents/sem4practicals/FP/YSL_python/prac_11.py

Students Details :

ID  Name   Contact   Status
64  Madhava 0123456789 current
32  Keshava 6432015789 current
22  Govinda 9876543210 alumni
16  Gopinath 0987654321 current

yash@haribol64 in repo: sem4practicals/FP/YSL_python on main [?] via v3.11.2 (venv) took 412ms
```