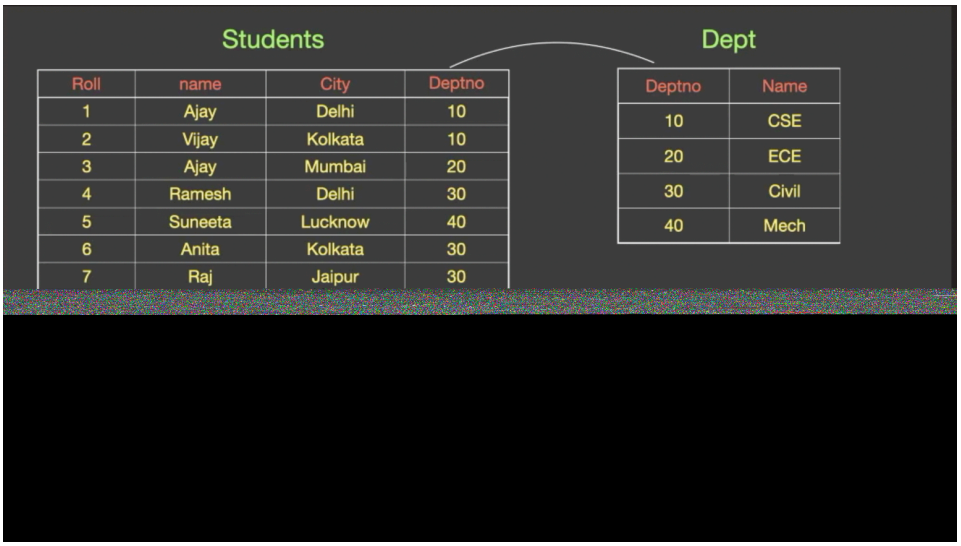
DML Update Query

- The following data base is available in our Univ database thus we will be using it



Students

Roll	name	City	Deptno
1	Ajay	Delhi	10
2	Vijay	Kolkata	10
3	Ajay	Mumbai	20
4	Ramesh	Delhi	30
5	Suneeta	Lucknow	40
6	Anita	Kolkata	30
7	Raj	Jaipur	30

Dept

Deptno	Name
10	CSE
20	ECE
30	Civil
40	Mech

- We have to perform the following queries on our database using Python

1. update Dept set name='Chem' where name='Mech'
2. update Students set City='Bhopal' where roll=15
3. delete from Students where roll=15
4. delete from Dept where deptno=40

- The first query is , In the dept database we need to change name from Mech to Chem

//writing SQL Query in VSCode

```python
import sqlite3

conn = sqlite3.connect('univ.db')

cur = conn.cursor()

cur.execute('update Dept set name="Chem" where name="Mech"')

conn.commit()

cur.close()

conn.close()
```

// Running error free program in CMD

```
C:\Users\Abdul Bari\Desktop\MyPython>dir
 Volume in drive C is OS
 Volume Serial Number is 3E57-713D

 Directory of C:\Users\Abdul Bari\Desktop\MyPython

03/26/2022  03:58 AM    <DIR>          .
03/26/2022  03:58 AM    <DIR>          ..
03/27/2022  05:09 AM               190 Database.py
03/26/2022  03:58 AM            12,288 univ.db
               2 File(s)         12,478 bytes
               2 Dir(s)  414,603,014,144 bytes free

C:\Users\Abdul Bari\Desktop\MyPython>python Database.py

C:\Users\Abdul Bari\Desktop\MyPython>
```

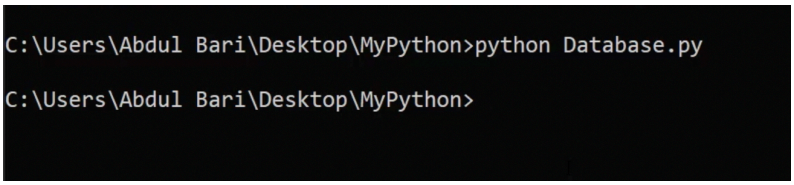
//before and after update result

```
C:\Users\Abdul Bari\Desktop\MyPython>sqlite3
SQLite version 3.38.1 2022-03-12 13:37:29
Enter ".help" for usage hints.
Connected to a transient in-memory database.
Use ".open FILENAME" to reopen on a persistent database.
sqlite> .open univ.db
sqlite> select * from Dept;
10|CSE
20|ECE
30|Civil
40|Mech
sqlite> select * from Dept;
10|CSE
20|ECE
30|Civil
40|Chem
sqlite>
```

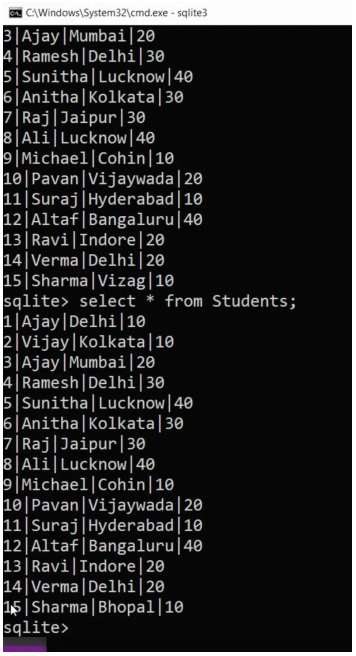
- Lets look at the second query

//writing SQL Query in VSCode

// Running error free program in CMD



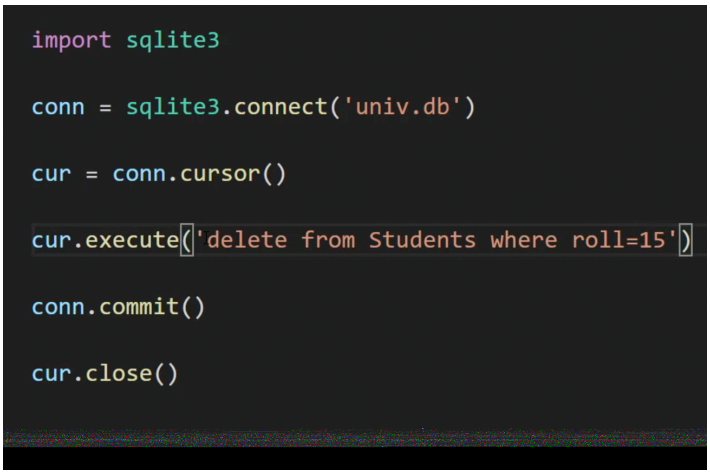
//before and after update result



- Now , in the third query we'll be deleting roll no 15 from the student database

- It is possible to delete multiple rows , but right now according to our requirement we are deleting a single row

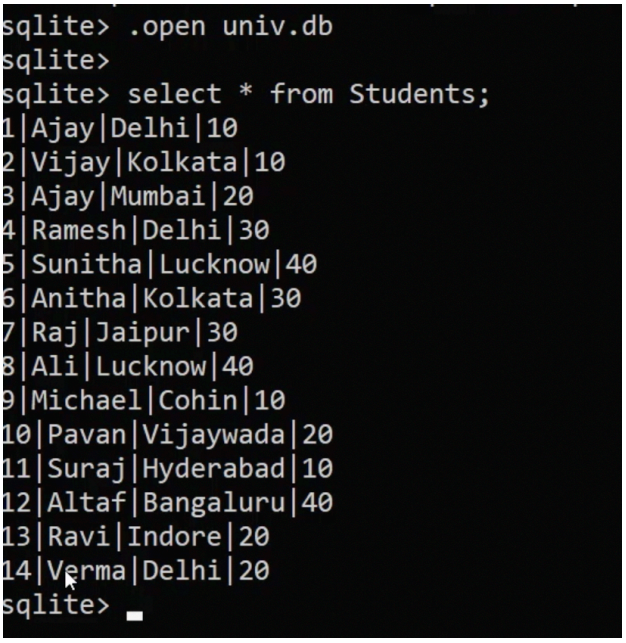
//writing SQL Query in VSCode



```
import sqlite3

conn = sqlite3.connect('univ.db')

cur = conn.cursor()

cur.execute('delete from Students where roll=15')

conn.commit()

cur.close()
```

// Running error free program in CMD

//delete result



```
sqlite> .open univ.db
sqlite>
sqlite> select * from Students;
1|Ajay|Delhi|10
2|Vijay|Kolkata|10
3|Ajay|Mumbai|20
4|Ramesh|Delhi|30
5|Sunitha|Lucknow|40
6|Anitha|Kolkata|30
7|Raj|Jaipur|30
8|Ali|Lucknow|40
9|Michael|Cohin|10
10|Pavan|Vijaywada|20
11|Suraj|Hyderabad|10
12|Altaf|Bangaluru|40
13|Ravi|Indore|20
14|Verma|Delhi|20
sqlite>
```

- The last query is delete from dept where dept no = 40

- All the keys from student dept referring to the key 40 in dept db will also be deleted

//writing SQL Query in VSCode

```
import sqlite3

conn = sqlite3.connect('univ.db')

cur = conn.cursor()

cur.execute('delete from Dept where deptno=40')

conn.commit()

cur.close()

conn.close()
```

// Running error free program in CMD

```
C:\Users\Abdul Bari\Desktop\MyPython>python Database.py

C:\Users\Abdul Bari\Desktop\MyPython>
```

//delete result

```
sqlite> select * from Dept;
10|CSE
20|ECE
30|Civil
```