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Question1. Perform CRUD operations on Student Table as outlined in the reference

(<https://medium.com/analytics-vidhya/programming-with-databases-in-python-using-sqlite4cecbef51ab9> (<https://medium.com/analytics-vidhya/programming-with-databases-in-python-using-sqlite4cecbef51ab9>)).

```
In [13]: import sqlite3
conn = sqlite3.connect('students.db')
cursor = conn.cursor()
cursor.execute("DROP TABLE IF EXISTS STUDENT")
query = """CREATE TABLE STUDENT(
        ID INT PRIMARY KEY NOT NULL,
        NAME CHAR(20) NOT NULL,
        ROLL CHAR(20),
        ADDRESS CHAR(50),
        CLASS CHAR(20) )"""
cursor.execute(query)
conn.commit()
conn.close()
```

```
In [14]: import sqlite3
conn = sqlite3.connect('students.db')
conn.execute("INSERT INTO STUDENT (ID,NAME,ROLL,ADDRESS,CLASS) "
            "VALUES (1, 'JESY', '001', 'Bangalore', 'M.Sc.DS')")
conn.execute("INSERT INTO STUDENT (ID,NAME,ROLL,ADDRESS,CLASS) "
            "VALUES (2, 'VINI', '002', 'Hyd', 'B.SC.CS')")
conn.execute("INSERT INTO STUDENT (ID,NAME,ROLL,ADDRESS,CLASS) "
            "VALUES(3, 'MURALI', '003', 'Delhi', 'B.Sc.Maths')")
conn.commit()
conn.close()
```

```
In [15]: import sqlite3
conn = sqlite3.connect('students.db')
cursor = conn.execute("SELECT * from STUDENT")
print(cursor.fetchall())
conn.close()
```

```
[(1, 'JESY', '001', 'Bangalore', 'M.Sc.DS'), (2, 'VINI', '002', 'Hyd', 'B.SC.CS'), (3, 'MURALI', '003', 'Delhi', 'B.Sc.Maths')]
```

```
In [16]: import sqlite3
conn = sqlite3.connect('students.db')
conn.execute("UPDATE STUDENT set ROLL = 005 where ID = 1")
conn.commit()
cursor = conn.execute("SELECT * from STUDENT")
print(cursor.fetchall())
conn.close()
```

```
[(1, 'JESY', '5', 'Bangalore', 'M.Sc.DS'), (2, 'VINI', '002', 'Hyd', 'B.SC.C
S'), (3, 'MURALI', '003', 'Delhi', 'B.Sc.Maths')]
```

```
In [17]: import sqlite3
conn = sqlite3.connect('students.db')
conn.execute("DELETE from STUDENT where ID = 3;")
conn.commit()
cursor = conn.execute("SELECT * from STUDENT")
print(cursor.fetchall())
conn.close()
```

```
[(1, 'JESY', '5', 'Bangalore', 'M.Sc.DS'), (2, 'VINI', '002', 'Hyd', 'B.SC.C
S')]
```

Question2. Open the table MyRestaurants.db that you have created for NoSQL course

```
In [10]: !pip install cx_Oracle
```

```
Requirement already satisfied: cx_Oracle in c:\users\hp\anaconda3\lib\site-pack
ages (8.3.0)
```

```
In [11]: import cx_Oracle
conn=cx_Oracle.connect("system/admin")
sql="select * from myrestaurants"
cursor=conn.cursor()
cursor.execute(sql)
for row in cursor.execute("select * from myrestaurants"):
    print("name",row[0])
    print("foodtype",row[1])
    print("distance",row[2])
    print("lastvisit",row[3])
    print("ilike",row[4])
conn.commit()
conn.close()
```

```
name Apple_leaf
foodtype non veg
distance 15
lastvisit 01-jan-2020
ilike 1
name sowmays
foodtype veg
distance 18
lastvisit 20-mar-2021
ilike 1
name thinnappa
foodtype non veg
distance 25
lastvisit 20-nov-2019
ilike 0
name sribhavan
foodtype veg
distance 18
lastvisit 20-dec-2019
ilike 0
name chinaworld
foodtype chinese
distance 14
lastvisit 05-mar-2020
ilike 1
name littlechina
foodtype chinese
distance 30
lastvisit 10-mar-2020
ilike 0
name munivilas
foodtype nonveg
distance 20
lastvisit 05-feb-2019
ilike None
name dosacorner
foodtype nonveg
distance 10
lastvisit 05-feb-2020
ilike 1
```

Question3. Write a SQL query that returns all restaurants in your table MyRestaurants.db.

```
In [13]: import cx_Oracle
conn=cx_Oracle.connect("system/admin")
sql="select * from myrestaurants"
cursor=conn.cursor()
cursor.execute(sql)
for row in cursor.execute("select * from myrestaurants"):
    print("Name : ",row[0])
conn.commit()
conn.close()
```

```
Name : Apple_leaf
Name : sowmays
Name : thinnappa
Name : sribhavan
Name : chinaworld
Name : littlechina
Name : munivilas
Name : dosacorner
```

Question4. Write a SQL query that returns the names of restaurants in descending order that makes Chinese foods.

```
In [15]: import cx_Oracle
conn=cx_Oracle.connect("system/admin")
sql="select * from myrestaurants"
cursor=conn.cursor()
cursor.execute(sql)
for row in cursor.execute("select name,foodtype from myrestaurants where foodtype='Chinese'"):
    print("name",row[0])
    print("foodtype",row[1])
    print("\n")
conn.commit()
conn.close()
```

```
name chinaworld
foodtype chinese
```

```
name littlechina
foodtype chinese
```

In []:

