9/28/22, 11:55 AM Untitled (2)

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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).

```
In [26]: import sqlite3
         database= 'tds.sqlite'
          conn= sqlite3.connect(database)
          cur= conn.cursor()
In [27]: nt="create table if not exists stud(\
             name varchar, rno integer, m1 integer, m2 integer,\
             m3 integer, tot integer, avg float)"
          cur.execute(nt)
          conn.commit()
In [28]: rt="select * from stud"
          cur.execute(rt)
          st=[tuple[0] for tuple in cur.description]
         ['name', 'rno', 'm1', 'm2', 'm3', 'tot', 'avg']
Out[28]:
In [29]:
         cur = conn.cursor()
          sql = "INSERT INTO stud values ('joshua',1001,99,98,97,0,0)"
          cur.execute(sql)
          conn.commit()
          print(cur.rowcount, "was inserted.")
         1 was inserted.
In [30]:
         sql1 = "INSERT INTO stud values ('rolex',1002,99,100,97,0,0)"
          cur.execute(sql1)
          sql2 = "INSERT INTO stud values ('hari',1003,97,78,87,0,0)"
          cur.execute(sql2)
          sql3 = "INSERT INTO stud values ('dinesh',1004,95,93,95,0,0)"
          cur.execute(sql3)
          sql4 = "INSERT INTO stud values ('umesh',1001,93,92,91,0,0)"
          cur.execute(sql4)
         conn.commit()
In [31]:
         cur = conn.cursor()
          cur.execute("select * from stud")
          res=cur.fetchall()
         for i in res:
             print(i)
```

```
('joshua', 1001, 99, 98, 97, 0, 0.0)
          ('rolex', 1002, 99, 100, 97, 0, 0.0)
          ('hari', 1003, 97, 78, 87, 0, 0.0)
          ('dinesh', 1004, 95, 93, 95, 0, 0.0)
          ('umesh', 1001, 93, 92, 91, 0, 0.0)
In [32]: | cur = conn.cursor()
          tot="update stud set tot=m1+m2+m3"
          cur.execute(tot)
          conn.commit()
In [33]: | cur = conn.cursor()
          avg="update stud set avg=tot/3 "
          cur.execute(avg)
          conn.commit()
In [34]: | cur = conn.cursor()
          cur.execute("select * from stud")
          res=cur.fetchall()
          for i in res:
              print(i)
          ('joshua', 1001, 99, 98, 97, 294, 98.0)
          ('rolex', 1002, 99, 100, 97, 296, 98.0)
          ('hari', 1003, 97, 78, 87, 262, 87.0)
          ('dinesh', 1004, 95, 93, 95, 283, 94.0)
          ('umesh', 1001, 93, 92, 91, 276, 92.0)
 In [1]: pip install cx Oracle
         Requirement already satisfied: cx_Oracle in c:\users\umesh\anaconda3\lib\site-package
         Note: you may need to restart the kernel to use updated packages.
```

Question 2. Open the table MyRestaurants.db that you have created for NoSQL course

```
In [3]: | import sqlite3
        database= 'tds.sqlite'
        conn= sqlite3.connect(database)
        cur= conn.cursor()
In [4]: nt="create table if not exists myrest(\
            rname varchar, ftype varchar, dist integer, visit date,\
            ilike integer)"
        cur.execute(nt)
        conn.commit()
In [5]: rt="select * from myrest"
        cur.execute(rt)
        st=[tuple[0] for tuple in cur.description]
        st
        ['rname', 'ftype', 'dist', 'visit', 'ilike']
Out[5]:
In [7]: cur = conn.cursor()
        sql = "INSERT INTO myrest values ('apple leaf','NV',15,'01-jan-20',1)"
        cur.execute(sql)
```

9/28/22, 11:55 AM Untitled (2)

```
conn.commit()
          print(cur.rowcount, "was inserted.")
         1 was inserted.
 In [8]: cur = conn.cursor()
         sql = "INSERT INTO myrest values ('sowmys','V',18,'20-mar20',1)"
          cur.execute(sql)
          conn.commit()
          print(cur.rowcount, "was inserted.")
         1 was inserted.
In [10]: cur = conn.cursor()
          sql = "INSERT INTO myrest values ('thinnapa','NV',25,'20-dec-19',0)"
          cur.execute(sql)
          conn.commit()
          print(cur.rowcount, "was inserted.")
         1 was inserted.
In [11]: cur = conn.cursor()
         sql = "INSERT INTO myrest values ('sri_bhavan','V',18,'20-dec-19',0)"
          cur.execute(sql)
          conn.commit()
          print(cur.rowcount, "was inserted.")
         1 was inserted.
In [12]: cur = conn.cursor()
          sql = "INSERT INTO myrest values ('chinaworld','chinese',14,'05-mar-20',1)"
          cur.execute(sql)
          conn.commit()
          print(cur.rowcount, "was inserted.")
         1 was inserted.
In [13]: cur = conn.cursor()
         sql = "INSERT INTO myrest values ('little_china','chinese',30,'10-mar-20',0)"
          cur.execute(sql)
          conn.commit()
          print(cur.rowcount, "was inserted.")
         1 was inserted.
```

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

9/28/22, 11:55 AM Untitled (2)

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