In [3]:

```
#Name: Brendan Lucas
#Roll No: 8953
#Div: SE Comps B

import mysql.connector as connector
from mysql.connector import Error

class database:
#     con = ""
#     cursor=""

    def connect_db(self):
        try:
            con = connector.connect(host='localhost', database='python_pracs', user='root',
            if con.is_connected():
                db_Info = con.get_server_info()
#                 print("Connected to MySQL Server version ", db_Info)
#                 cursor = con.cursor()
                return con
        except Error as e:
            print("Error while connecting to MySQL", e)
#         return None

    def close_conn(self,con):
        if con.is_connected():
            con.cursor().close()
            con.close()
            print("MySQL connection is closed")

    def add_student(self):
        name = input("Enter the name of Student ")
        roll = int(input("Enter Roll No of student "))
        book_name = input("Enter the name of book ")
        date = input("Enter the date of borrowing")
        status = input("Enter the status of book")
        conn = self.connect_db()
#         print(conn)
#         cursor = conn.cursor()
#         query = "INSERT INTO library VALUES ('{}', '{}', '{}', '{}', '{}');".format(roll,
#         cursor.execute(query)
        try:
            cursor = conn.cursor()
            query = "INSERT INTO library VALUES ('{}', '{}', '{}', '{}', '{}');".format(rol
            print(query)
            print("\n")
            cursor.execute(query)
            print(cursor)
            #             result = cursor.fetchall()
#             print(result)
        except Error as e:
            print(e)
        finally:
            self.close_conn(conn)


    def show_details(self):
        conn = self.connect_db()
        try:
            cursor = conn.cursor()
```

```
            query = "SELECT * FROM library"
            print(query)
            print("\n")
            cursor.execute(query)
            record = cursor.fetchall()
            print("Data in user table : ", record)
#             result = cursor.fetchall()
#             print(result)
        except Error as e:
            print(e)
        finally:
            self.close_conn(conn)

    def delete_record(self):
        conn = self.connect_db()
        id = int(input("Enter the Id of student to be deleted"))
        try:
            cursor = conn.cursor()
            query = "DELETE FROM library WHERE library.roll_no = {}".format(id)
            print(query)
            print("\n")
            cursor.execute(query)
#             record = cursor.fetchall()
#             print("Data in user table : ", record)
        except Error as e:
            print(e)
        finally:
            self.close_conn(conn)

    def return_book(self):
        conn = self.connect_db()
        id = int(input("Enter the Id of student who has returned book"))
        try:
            cursor = conn.cursor()
            query = "UPDATE `library` SET `status` = 'returned' WHERE `library`.`roll_no` =
            print(query)
            print("\n")
            cursor.execute(query)
#             record = cursor.fetchall()
#             print("Data in user table : ", record)
        except Error as e:
            print(e)
        finally:
            self.close_conn(conn)

obj = database()
obj.show_details()
obj.add_student()
obj.return_book()
obj.delete_record()
```

```
SELECT * FROM library


Data in user table :  [(4001, 'shree', datetime.date(2021, 5, 4), 'Java',
'returned'), (4002, 'Brendan Lucas', datetime.date(2021, 5, 1), 'python',
'borrowed')]
MySQL connection is closed
Enter the name of Student Some Name
Enter Roll No of student 4004
Enter the name of book Python Core
```

```
Enter the date of borrowing2021-04-05
Enter the status of bookBorrowed
INSERT INTO library VALUES ('4004', 'Some Name', '2021-04-05', 'Python Cor
e', 'Borrowed');


MySQLCursor: INSERT INTO library VALUES ('4004', 'Som..
MySQL connection is closed
Enter the Id of student who has returned book4004
UPDATE `library` SET `status` = 'returned' WHERE `library`.`roll_no` = 400
4;


MySQL connection is closed
Enter the Id of student to be deleted4004
DELETE FROM library WHERE library.roll_no = 4004


MySQL connection is closed
```

In [ ]: