import mysql.connector

class LibraryManagementSystem:

def \_\_init\_\_(self):

self.conn = mysql.connector.connect(

host="localhost",

user="root",

password="",

database="library\_management\_system"

)

self.cursor = self.conn.cursor()

def add\_book(self, title, author, genre):

self.cursor.execute("INSERT INTO books (title, author, genre) VALUES (%s, %s, %s)", (title, author, genre))

self.conn.commit()

def get\_all\_books(self):

self.cursor.execute("SELECT \* FROM books")

return self.cursor.fetchall()

def get\_book\_by\_id(self, book\_id):

self.cursor.execute("SELECT \* FROM books WHERE book\_id = %s", (book\_id,))

return self.cursor.fetchone()

def update\_book(self, book\_id, title, author, genre):

self.cursor.execute("UPDATE books SET title = %s, author = %s, genre = %s WHERE book\_id = %s", (title, author, genre, book\_id))

self.conn.commit()

def delete\_book(self, book\_id):

self.cursor.execute("DELETE FROM books WHERE book\_id = %s", (book\_id,))

self.conn.commit()

def add\_patron(self, name, contact\_info):

self.cursor.execute("INSERT INTO patrons (name, contact\_info) VALUES (%s, %s)", (name, contact\_info))

self.conn.commit()

def get\_all\_patrons(self):

self.cursor.execute("SELECT \* FROM patrons")

return self.cursor.fetchall()

def get\_patron\_by\_id(self, patron\_id):

self.cursor.execute("SELECT \* FROM patrons WHERE patron\_id = %s", (patron\_id,))

return self.cursor.fetchone()

def update\_patron(self, patron\_id, name, contact\_info):

self.cursor.execute("UPDATE patrons SET name = %s, contact\_info = %