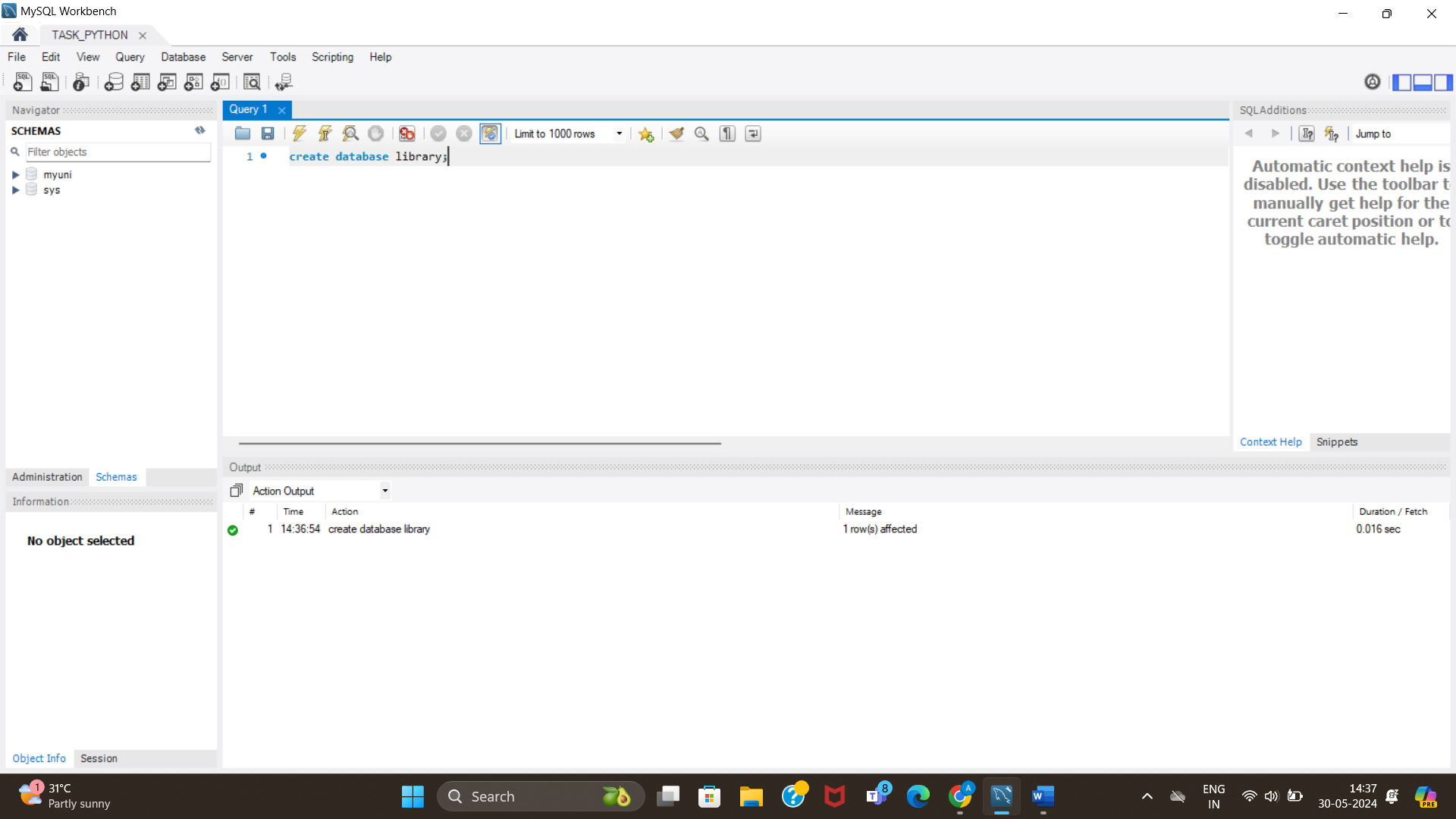
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BRANCH/SECTION: AIML/’C’

TASK ON PYTHON AND SQL

1. Create a database called as "Library" using SQL queries executed through MySQL workbench.

SSSS

2. Create a table in this dataset called as "Books" using the same MySQL workbench, include following columns in this table:

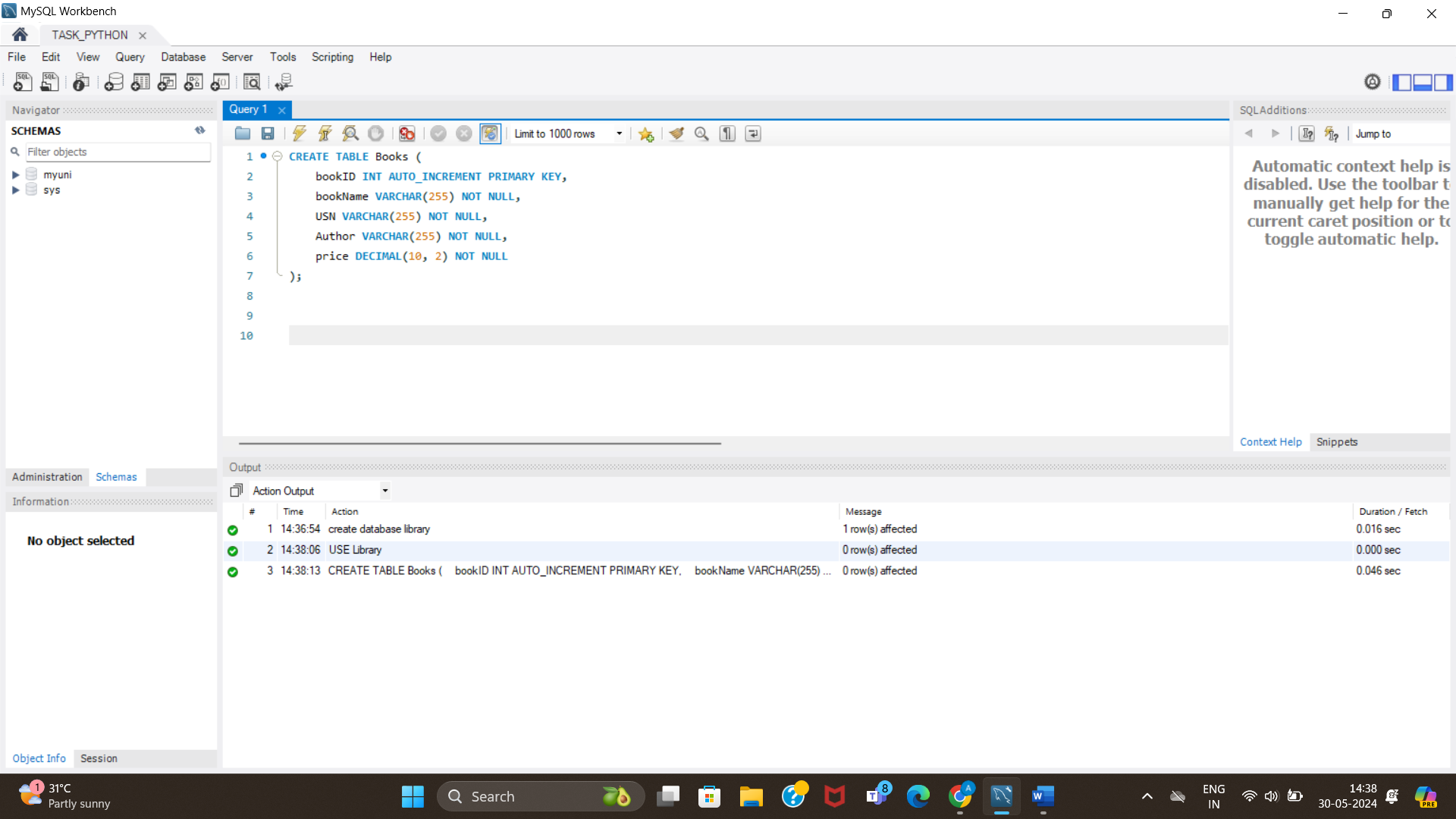
a. bookID

b. bookName

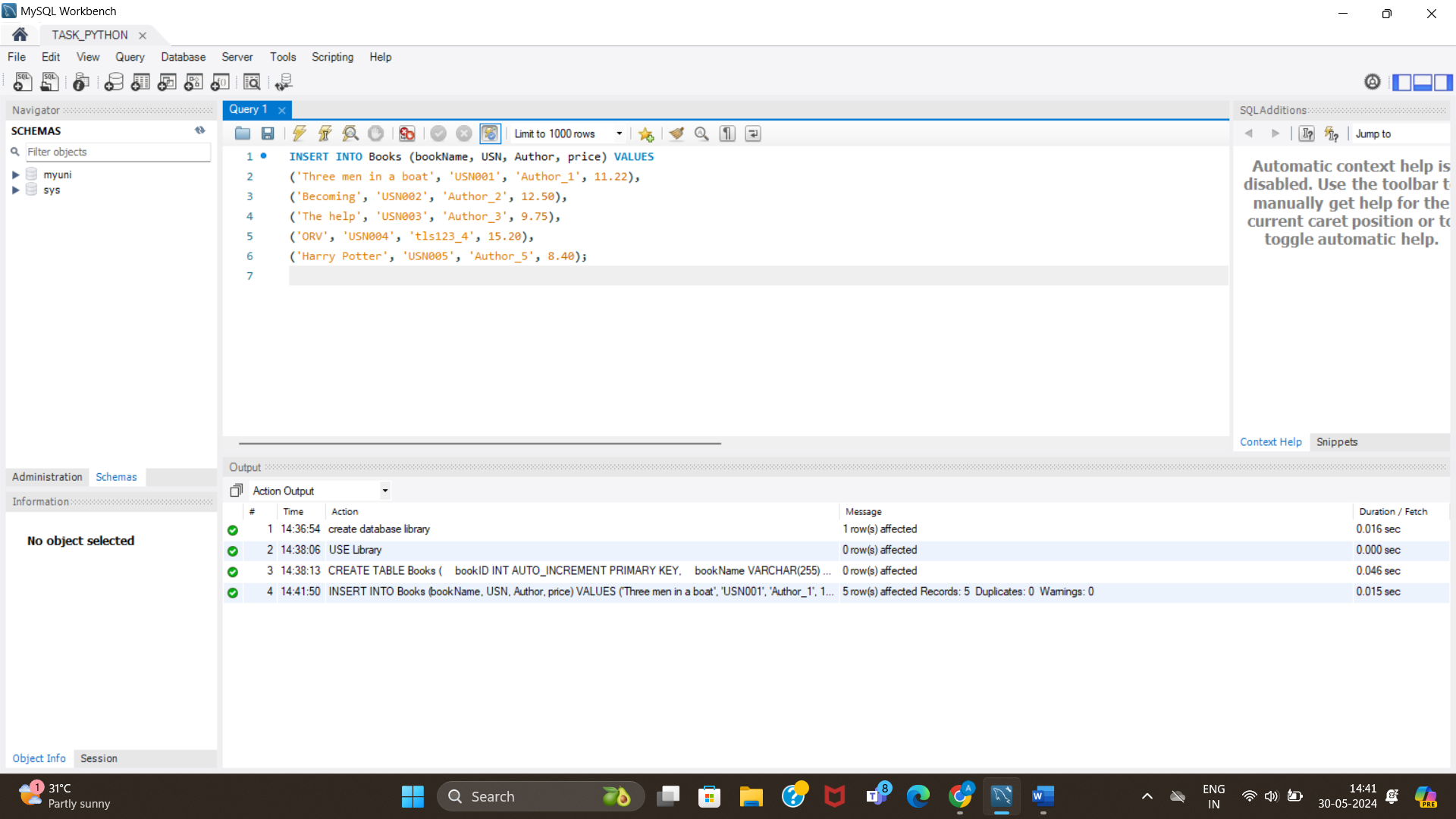
c. USN

d. Author

e. price



3. Insert at least 5 records in this table through SQL queries using MySQL workbench.



4. Write a python program that fetches all these data from this table directly through python program itself. Show the output on IDLE.

5. Write another python program that updates a record in this table directly through python program. Show the output on IDLE.

6. Write another python program that deleted a record in this table directly through python program. Show the output on IDLE.

Code:

import mysql.connector

def fetch\_books(cursor):

cursor.execute("SELECT \* FROM Books")

rows = cursor.fetchall()

for row in rows:

print(row)

def update\_book(cursor, conn):

update\_query = "UPDATE Books SET price = %s WHERE bookID = %s"

data = (11.99, 1)

cursor.execute(update\_query, data)

conn.commit()

print(f"Number of rows affected (update): {cursor.rowcount}")

def delete\_book(cursor, conn):

delete\_query = "DELETE FROM Books WHERE bookID = %s"

data = (5,)

cursor.execute(delete\_query, data)

conn.commit()

print(f"Number of rows affected (delete): {cursor.rowcount}")

# Establish connection to MySQL

conn = mysql.connector.connect(

host='localhost',

user='root',

password='Aditiv@1122',

database='Library'

)

cursor = conn.cursor()

# Fetch and display all books

print("Fetching all books:")

fetch\_books(cursor)

# Update a book record

print("\nUpdating a book price:")

update\_book(cursor, conn)

# Fetch and display all books after update

print("\nFetching all books after update:")

fetch\_books(cursor)

# Delete a book record

print("\nDeleting a book:")

delete\_book(cursor, conn)

# Fetch and display all books after deletion

print("\nFetching all books after deletion:")

fetch\_books(cursor)

# Close the cursor and connection

cursor.close()

conn.close()

CODE:

