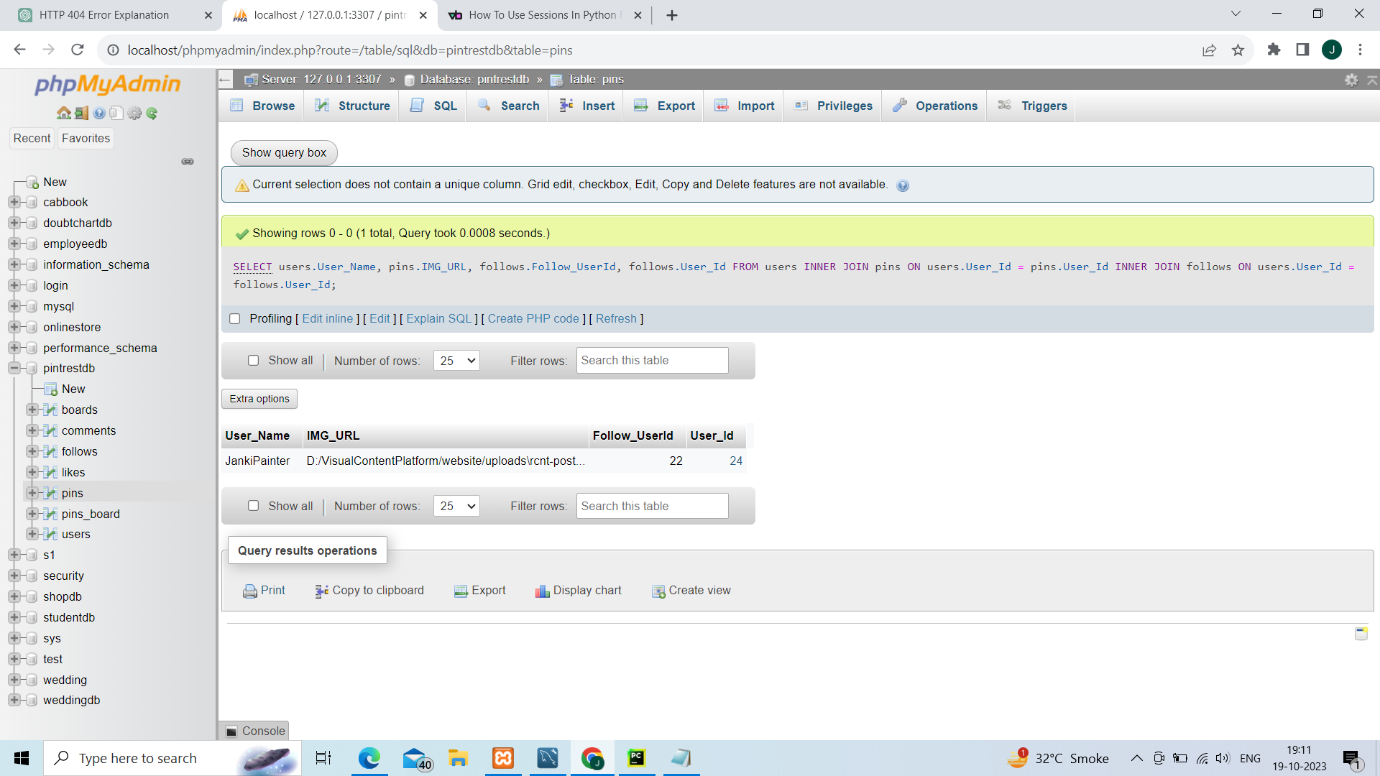
Queries🡺

SELECT users.User\_Name, pins.IMG\_URL, follows.Follow\_UserId, follows.User\_Id

FROM users

INNER JOIN pins ON users.User\_Id = pins.User\_Id

INNER JOIN follows ON users.User\_Id = follows.User\_Id;



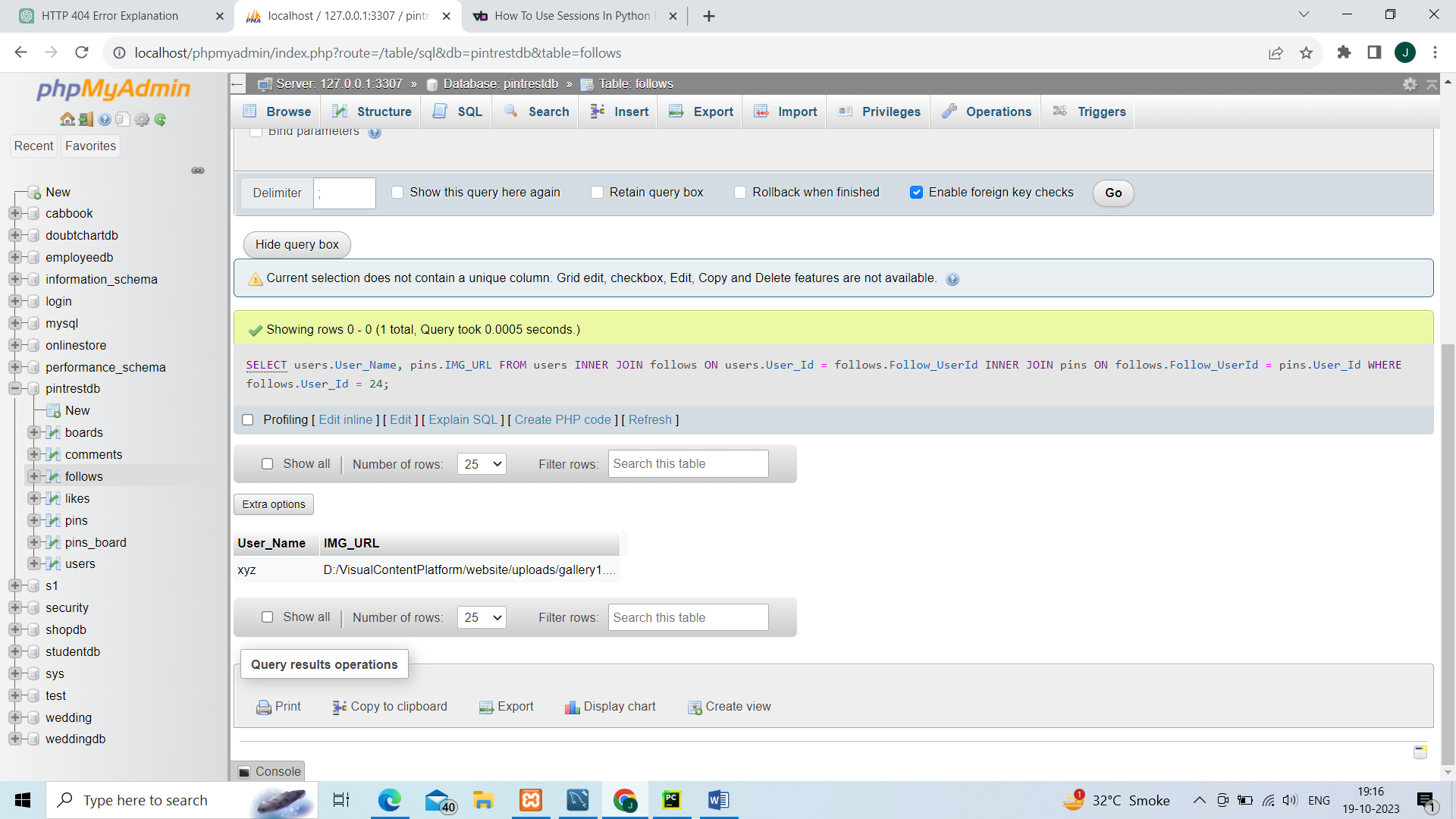
SELECT users.User\_Name, pins.IMG\_URL

FROM users

INNER JOIN follows ON users.User\_Id = follows.Follow\_UserId

INNER JOIN pins ON follows.Follow\_UserId = pins.User\_Id

WHERE follows.User\_Id = 24;



import mysql.connector

# Connect to the MySQL database

db = mysql.connector.connect(

host="your\_host",

user="your\_user",

password="your\_password",

database="your\_database"

)

cursor = db.cursor()

# Define a function to get recommendations for a user

def get\_recommendations(user\_id):

recommendations = []

# User-based collaborative filtering: Find users similar to the given user.

cursor.execute("SELECT DISTINCT u.user\_id FROM users u, likes l WHERE l.user\_id = %s AND l.pin\_id = u.pin\_id", (user\_id,))

similar\_users = [row[0] for row in cursor.fetchall()]

# Find pins liked by similar users, excluding those liked by the given user.

cursor.execute("SELECT DISTINCT p.pin\_id FROM pins p, likes l WHERE l.user\_id IN %s AND l.pin\_id = p.pin\_id AND l.user\_id != %s", (similar\_users, user\_id))

similar\_user\_pins = [row[0] for row in cursor.fetchall()]

# Recommend pins based on pins liked by similar users.

for pin\_id in similar\_user\_pins:

cursor.execute("SELECT \* FROM pins WHERE pin\_id = %s", (pin\_id,))

recommendation = cursor.fetchone()

recommendations.append(recommendation)

return recommendations

# Example: Get recommendations for a user with user\_id = 1

user\_id = 1

recommendations = get\_recommendations(user\_id)

# Display recommendations

if recommendations:

print("Recommendations for user", user\_id, ":")

for recommendation in recommendations:

print(recommendation)

else:

print("No recommendations found for user", user\_id)

# Close the database connection

db.close()

SELECT Title, COUNT(Pin\_Id) AS Pin\_Count, GROUP\_CONCAT(IMG\_URL) AS Image\_URLs

FROM pins

GROUP BY Title;