**Database project Phase-04 Submission**

**Project Idea: portfolio terrain – A dedicated social media platform for freelance and remote developers**



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**Section: D-8**

**Submitted to:**

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use portfolio\_terrain;

-- nested queries

-- 1. retrieve the latest post content from each user:

select u.username, p.title, p.content

from users u

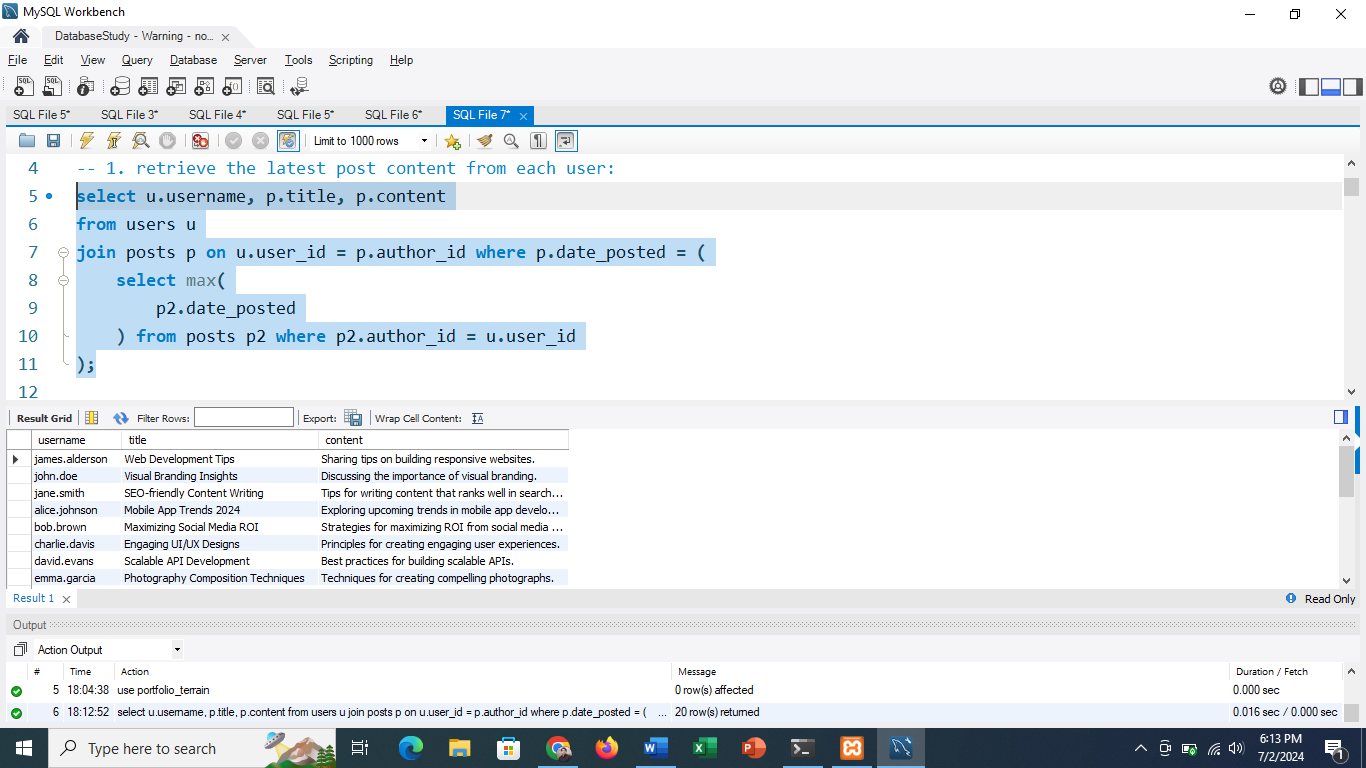
join posts p on u.user\_id = p.author\_id where p.date\_posted = (

select max(

p2.date\_posted

) from posts p2 where p2.author\_id = u.user\_id

);



-- 2. find users who have posted in the 'web development' category and the date of their latest post in that category:

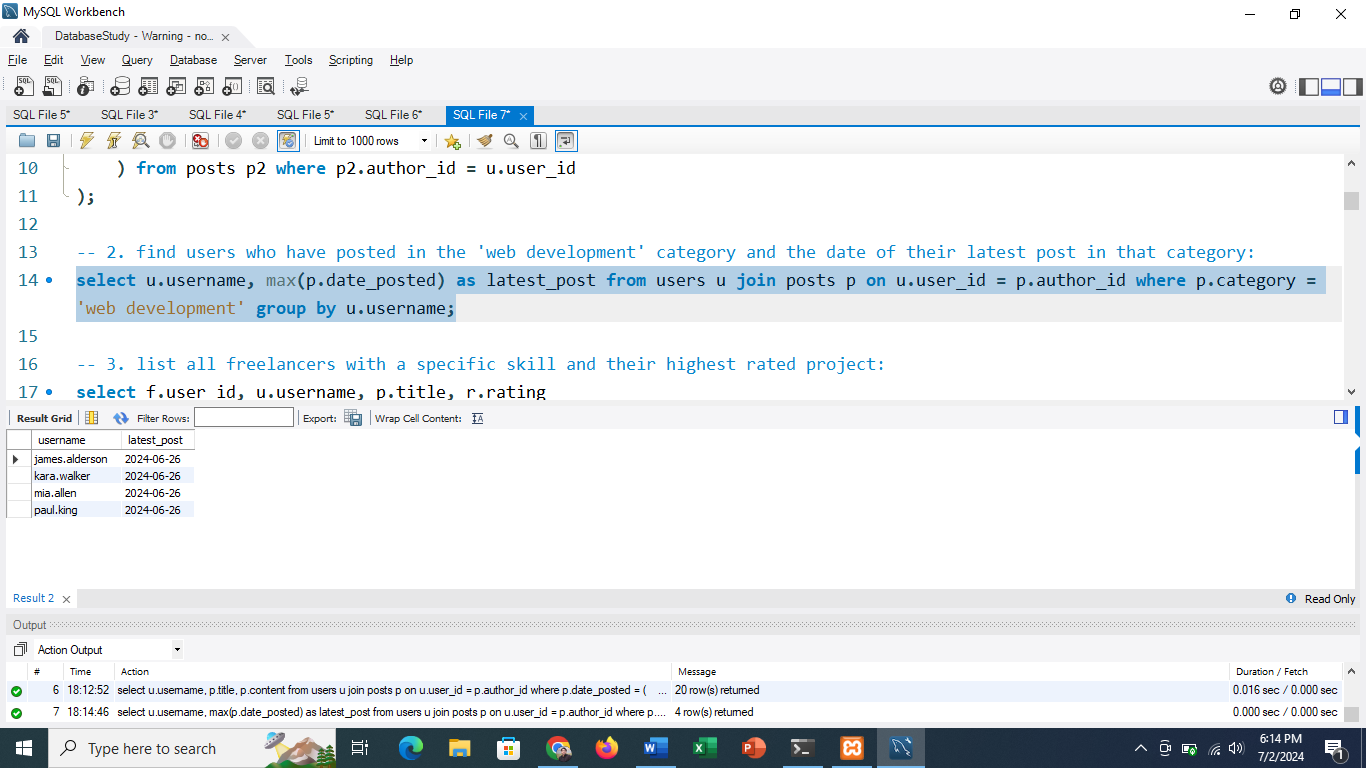
select u.username, max(p.date\_posted) as latest\_post

from users u

join posts p on u.user\_id = p.author\_id

where p.category = 'web development'

group by u.username;



-- 3. list all freelancers with a specific skill and their highest rated project:

select f.user\_id, u.username, p.title, r.rating from freelancer f join users u on f.user\_id = u.user\_id join projects p on f.freelancer\_id = p.seller\_id join reviews r on p.project\_id = r.project\_reviewed

where f.skills like '%python%'

and r.rating = (

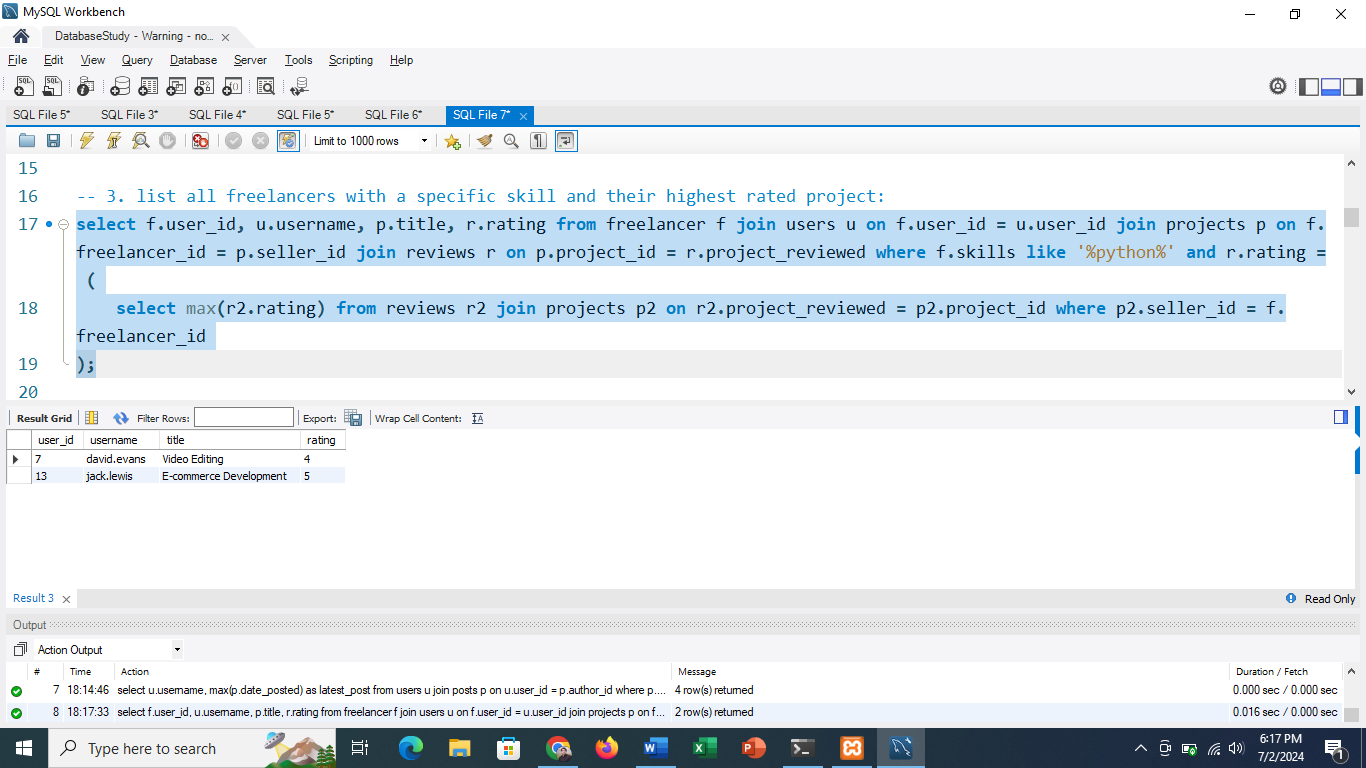
select max(r2.rating)

from reviews r2

join projects p2 on r2.project\_reviewed = p2.project\_id

where p2.seller\_id = f.freelancer\_id

);



-- 4. find the buyer who has spent the most on contracts:

select b.user\_id, u.username, sum(c.cost) as total\_spent

from buyer b

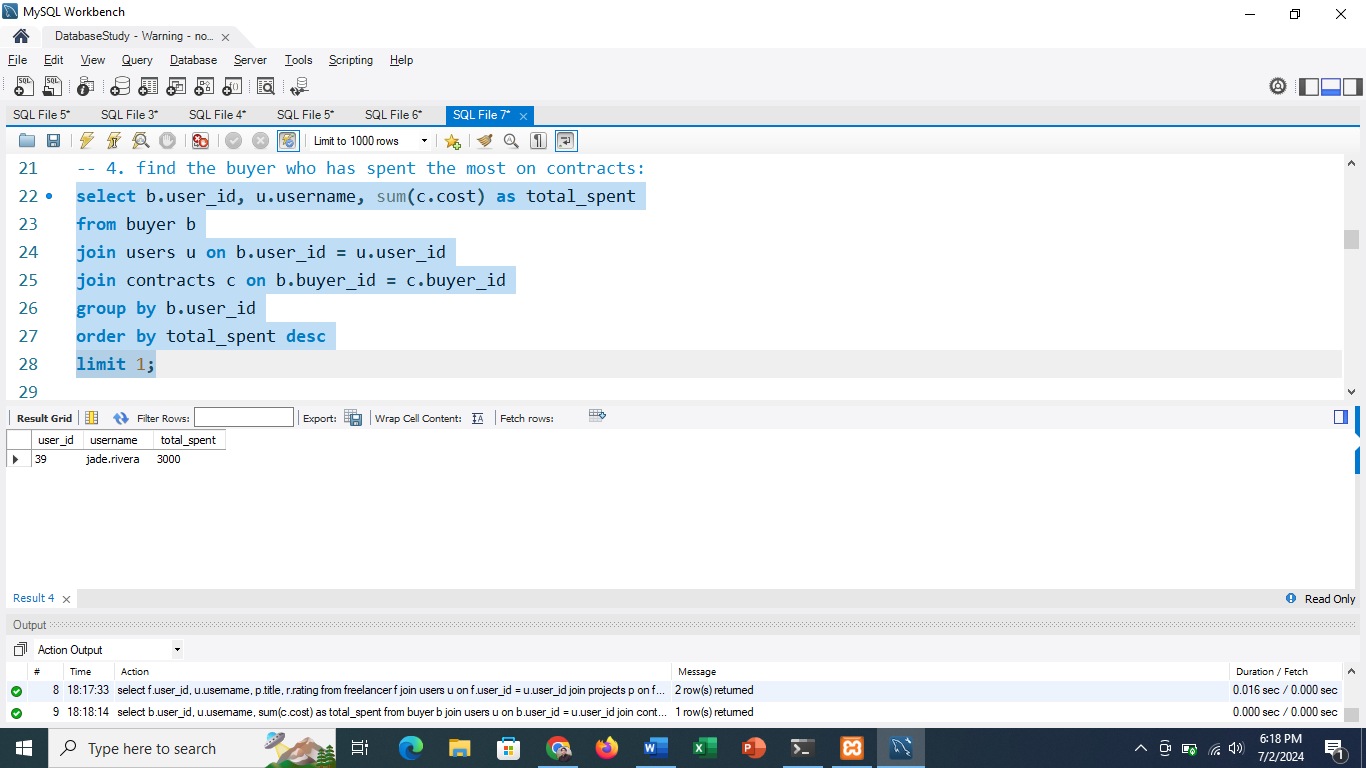
join users u on b.user\_id = u.user\_id

join contracts c on b.buyer\_id = c.buyer\_id

group by b.user\_id

order by total\_spent desc

limit 1;



-- 5. retrieve comments on the most liked post:

select c.content, u.username, c.comment\_date

from comments c

join users u on c.commenter = u.user\_id

where c.commented\_post = (

select l.post\_liked

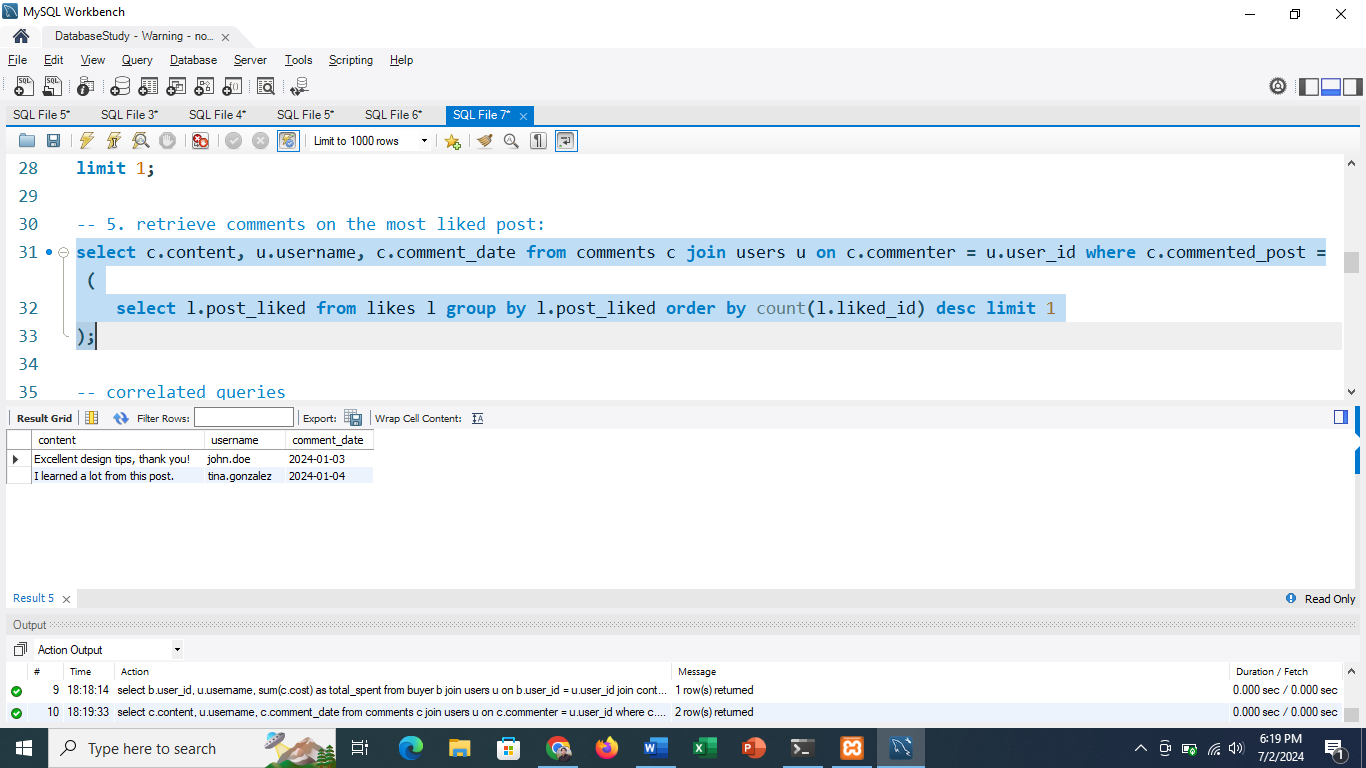
from likes l

group by l.post\_liked

order by count(l.liked\_id) desc

limit 1

);



-- correlated queries

-- 1. retrieve all posts along with the number of comments they have received:

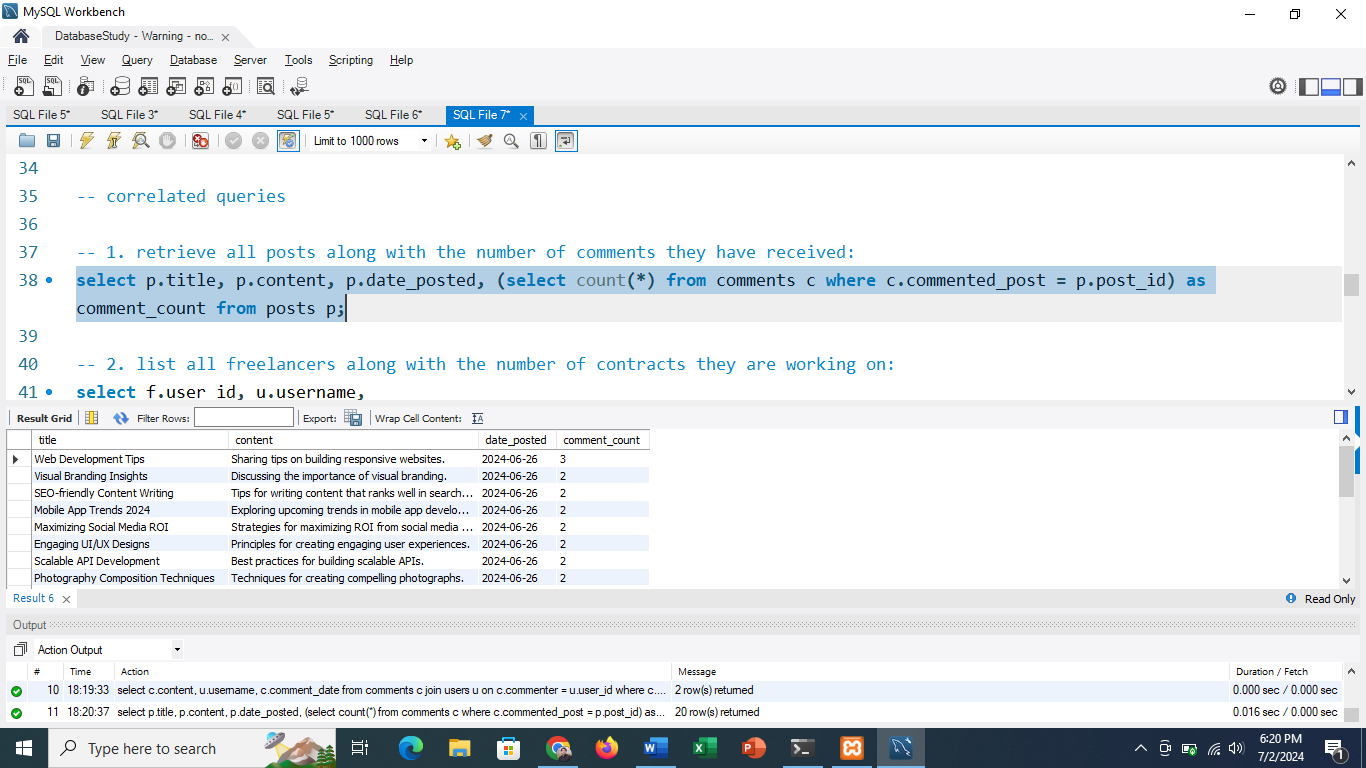
select p.title, p.content, p.date\_posted,

(select count(\*)

from comments c

where c.commented\_post = p.post\_id) as comment\_count

from posts p;



-- 2. list all freelancers along with the number of contracts they are working on:

select f.user\_id, u.username,

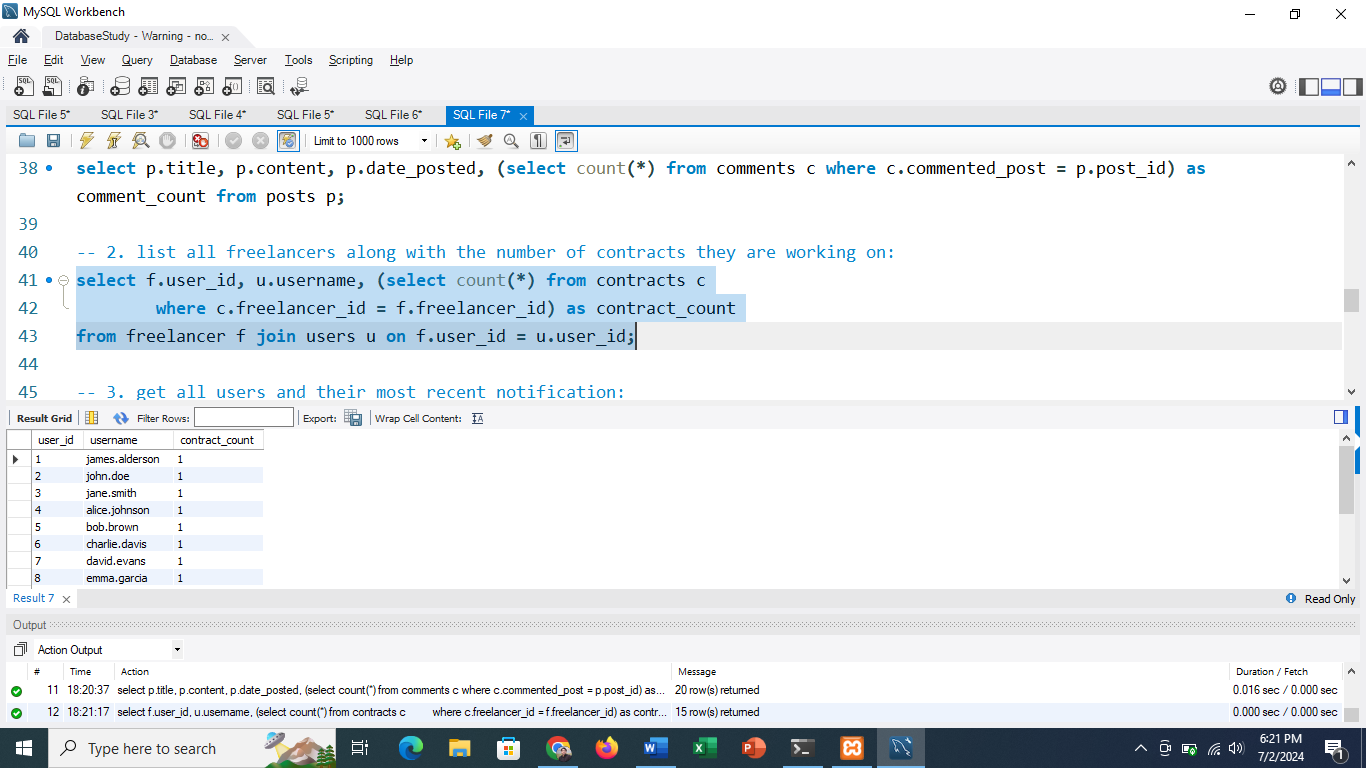
(select count(\*)

from contracts c

where c.freelancer\_id = f.freelancer\_id) as contract\_count

from freelancer f

join users u on f.user\_id = u.user\_id;



-- 3. get all users and their most recent notification:

select u.username, n.content, n.notify\_date

from users u

left join notifications n on u.user\_id = n.user\_notified

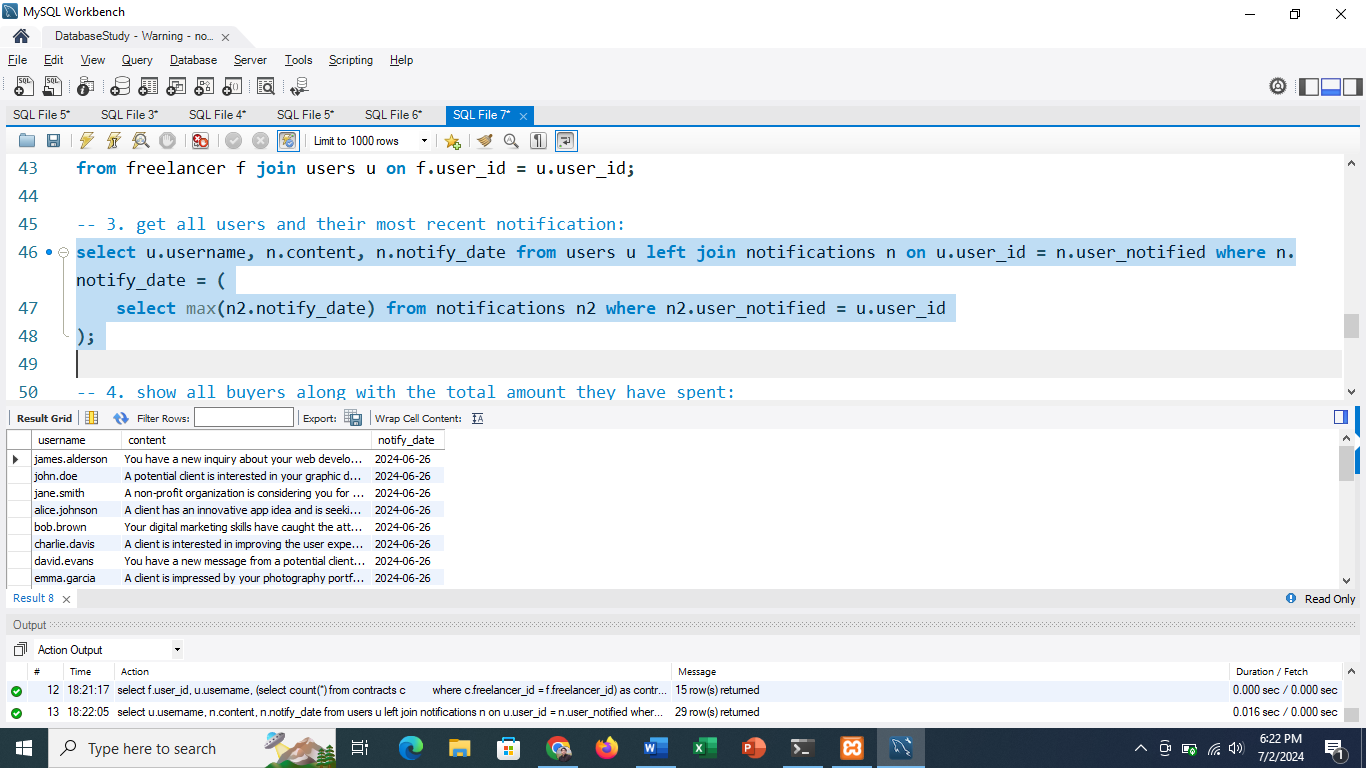
where n.notify\_date = (

select max(n2.notify\_date)

from notifications n2

where n2.user\_notified = u.user\_id

);



-- 4. show all buyers along with the total amount they have spent:

select b.user\_id, u.username,

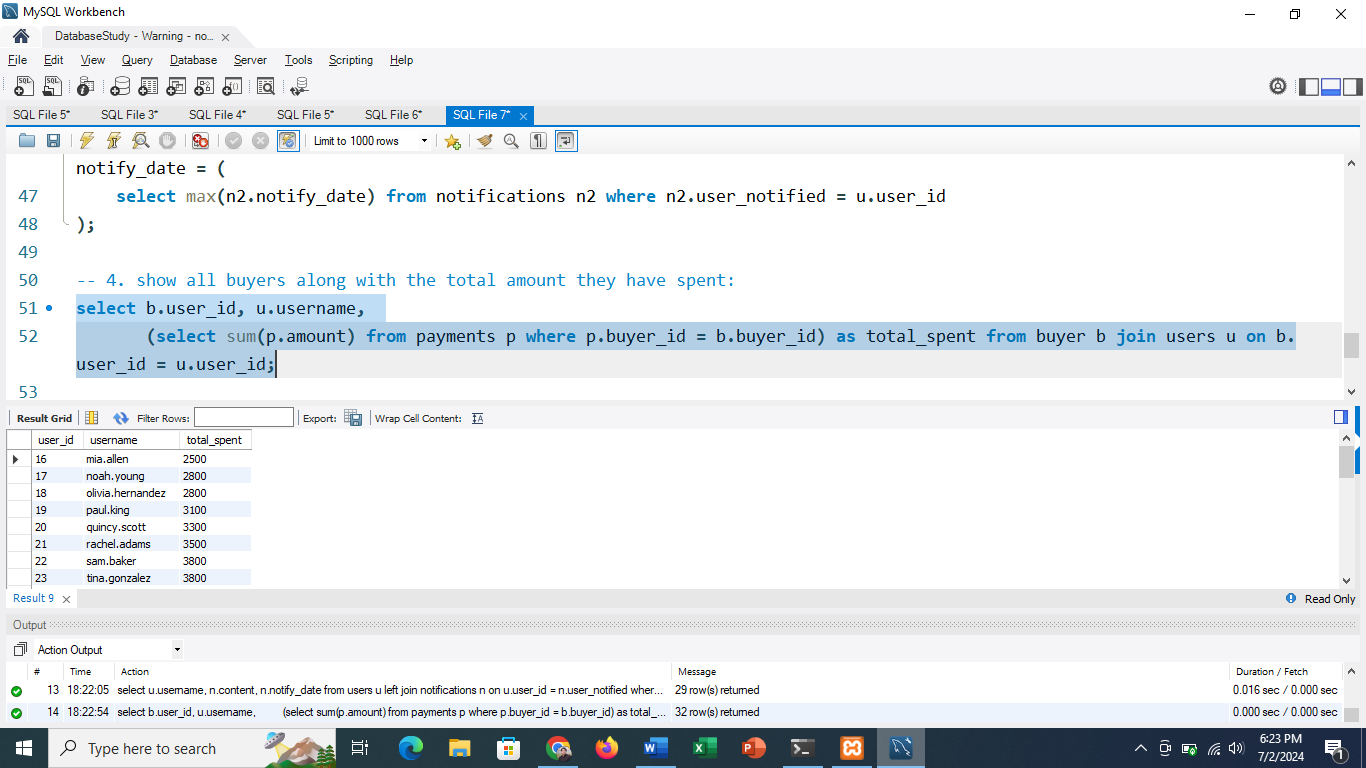
(select sum(p.amount)

from payments p

where p.buyer\_id = b.buyer\_id) as total\_spent

from buyer b

join users u on b.user\_id = u.user\_id;



-- 5. list all projects along with the highest rating they received in reviews:

select p.title, p.category, (select max(r.rating) from reviews r where r.project\_reviewed = p.project\_id) as highest\_rating

from projects p;

