

# Instagram Clone SQL Project





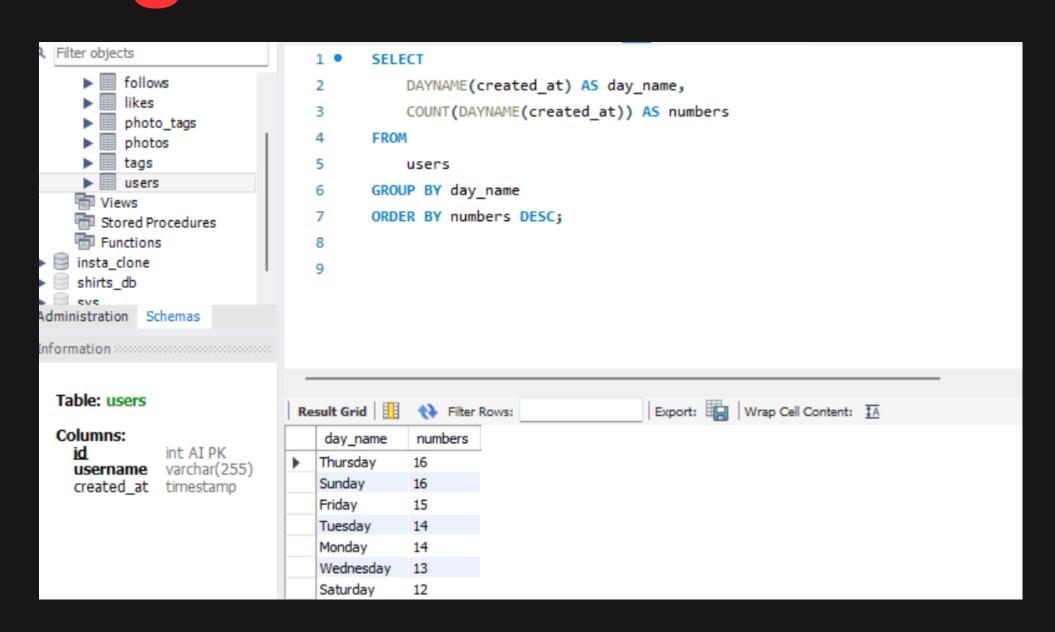
### Objective:

The objective of this project is to leverage a cloned Instagram database to conduct a comprehensive SQL-based analysis, extracting actionable insights regarding user behaviour, content trends, and platform engagement.

This analysis will aim to identify key patterns and relationships within the data, providing a deeper understanding of users' behaviour on the Instagram platform.

1. We need to figure out when to schedule an ad campaign.

## What day of the week do most users register on?

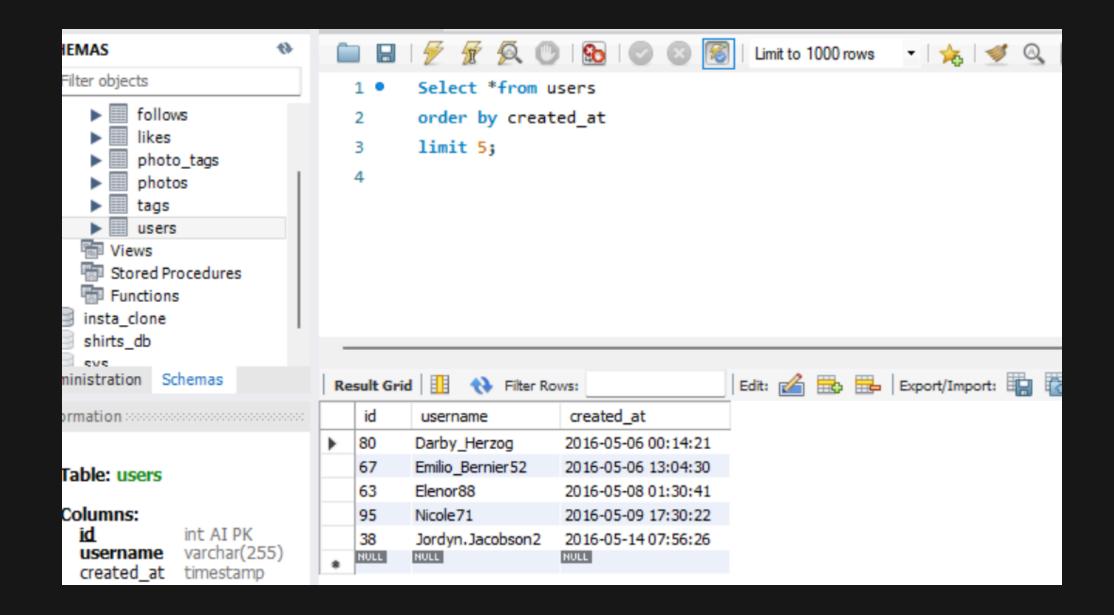


Select DAYNAME (created\_at) AS day\_name, COUNT (DAYNAME (created\_at)) AS numbers

From users
GROUP BY day\_name
ORDER BY numbers DESC;

2. We want to reward our users who have been around the longest.

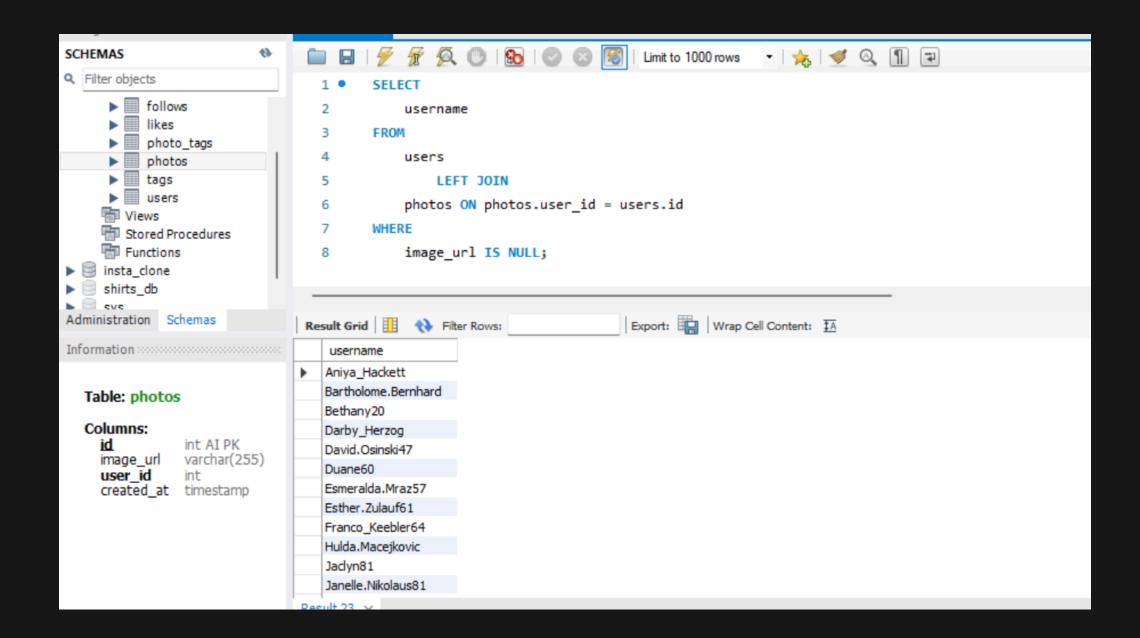
### Find the 5 oldest users.



SELECT\* FROM users ORDER BY created\_at LIMIT 5;

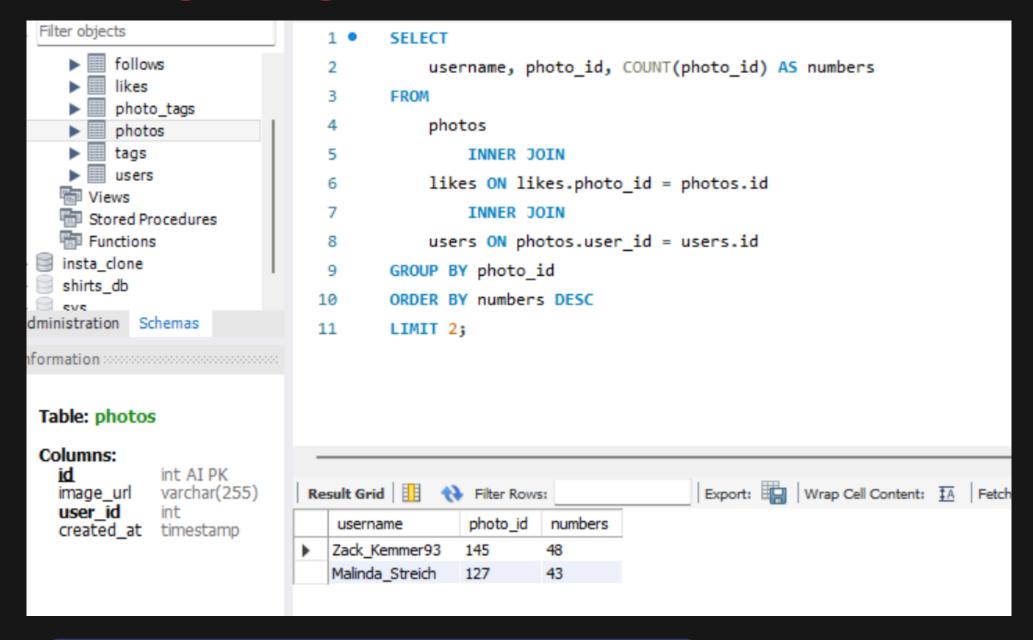
3. We want to our target inactive users with an email campaign.

## Find the users who have never posted a photo.



SELECT username FROM users LEFT JOIN photos ON photos.user\_id = users.id WHERE image\_url IS NULL; 4. We are running a new contest to see who can get the most the most like on a single photo.

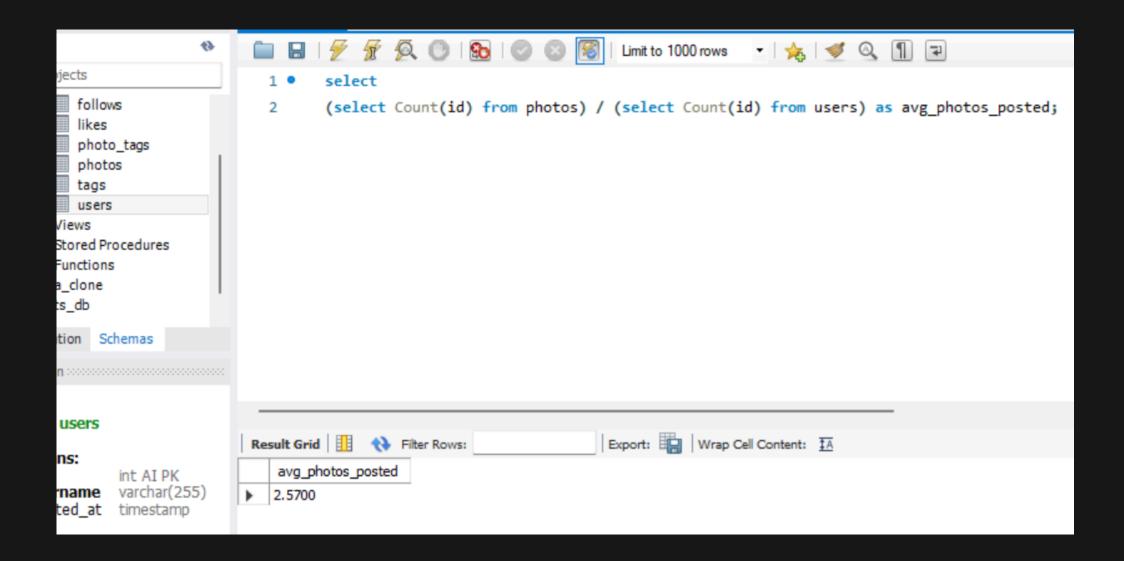
### Who won?



SELECT username, photo\_id,
COUNT(photo\_id) AS numbers FROM
photos
INNER JOIN likes ON likes.photo\_id =
photos.id
INNER JOIN users ON photos,user\_id =
photos.id
GROUP BY photo\_id
ORDER BY numbers DESC
LIMIT 2;

### 5. Investors want to know.....

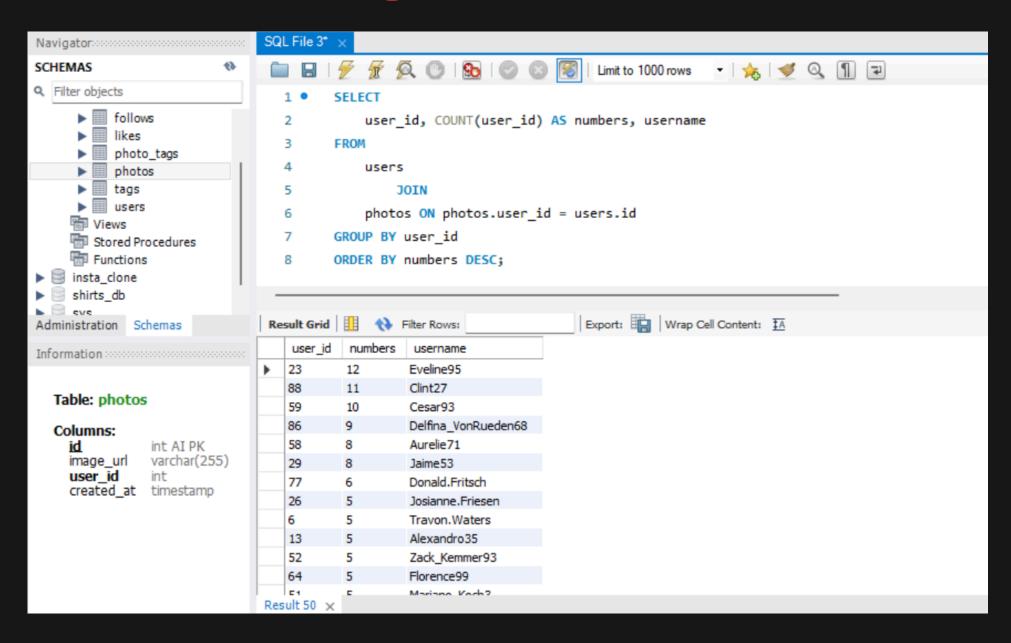
### How many times does the average user posts?



SELECT COUNT(id) FROM photos / (SELECT COUNT (id) FROM users)
AS avg\_photos\_posted;

### 6. Investors want to know.....

### Numbers of photos posted by each user.



SELECT user\_id, photo\_id, COUNT (user\_id)

AS numbers, username

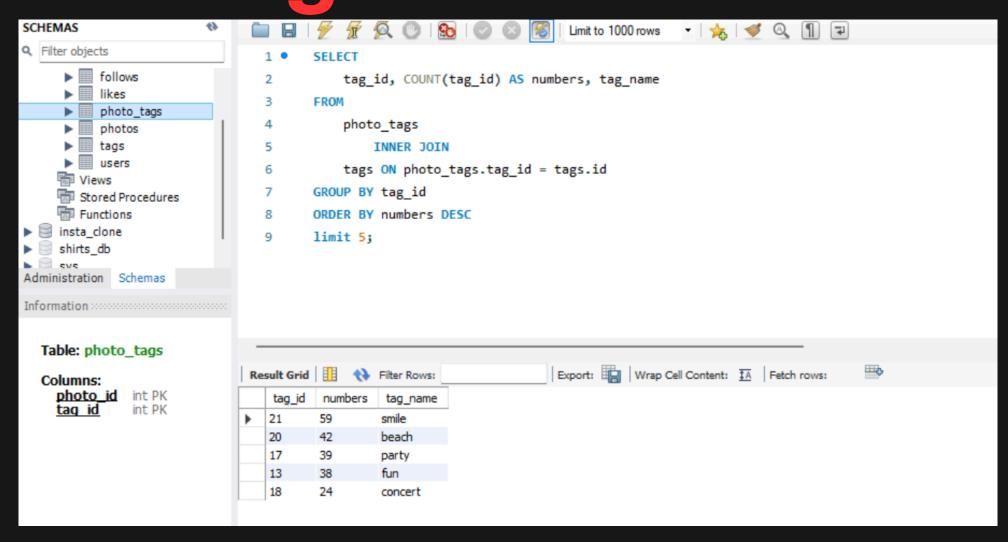
**FROM** 

users

JOIN photos ON photos.user\_id = users.id GROUP BY user\_id ORDER BY numbers DESC;

7. Brands want to know most popular hashtags.

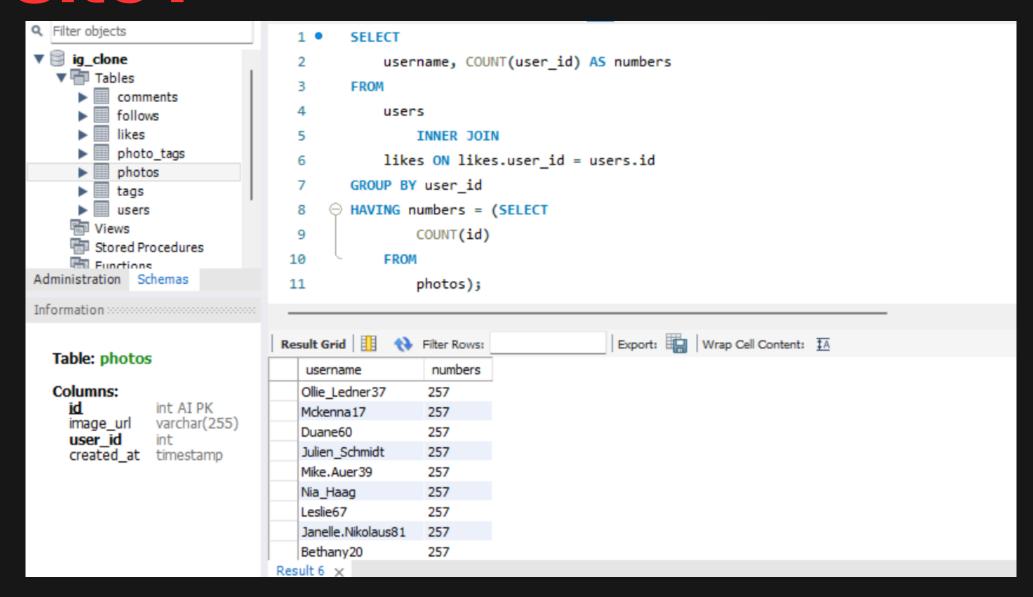
What are the top 5 most commonly used hashtags?



SELECT tag\_id, COUNT(tag\_id),
AS numbers, tag\_name
FROM photo\_tags
INNER JOIN
tags ON photo\_tags.tag\_id = tags.id
GROUP BY tag\_id
ORDER BY numbers DESC
LIMIT 5;

8. We have a small problem with bots on our site.

## Find users who have likes every single photo on the site?



SELECT username,
Count(user\_id) AS numbers
FROM users
INNER JOIN likes
ON users.id = likes.user\_id
GROUP BY user\_id
HAVING numbers = (SELECT Count(id)
FROM photos);

### Thank You For Your Attention

