# **Instagram Analysis Project**

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**Project 2** 

- 1. Project Description: As per the instructions and report, I have assigned a task to perform the data analysis of the Instagram User. We have to work on the provided dataset and collect the useful insights that can help the marketing team for further campaigns.
- 2. Approach: To perform all the queries and complete the given task.

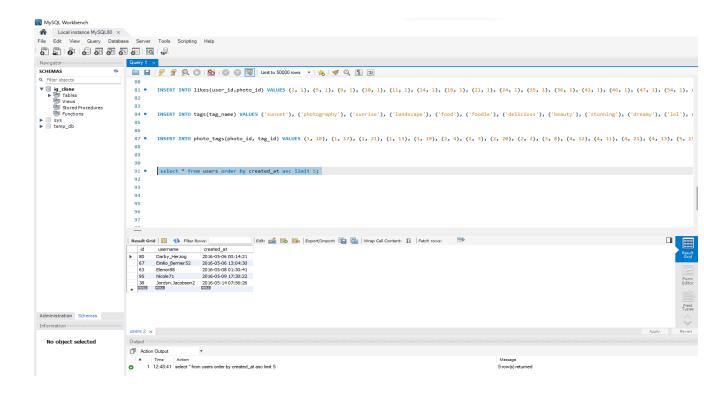
  According to the instructions Create a database in MYSQL Workbench, execute all the queries, analyze it and collect the useful insights out of it
- **3. Tech Stack used :** To perform the queries I have used MYSQL workbench because it is a powerful tool for database development, management, and administration specifically designed for MySQL databases , and Google docs to make the analysis of the project
- **4. Insights:** As a beginner, it helped me to understand how the complex queries work and how to understand the business and that insights actually works.
- 5. Results: Following are all the executed queries with the Output

# A) Marketing Survey

 Loyal User Reward: The marketing team wants to reward the most loyal users, i.e., those who have been using the platform for the longest time.
 Your Task: Identify the five oldest users on Instagram from the provided database.

Syntax:

select \* from users order by created at asc limit 5;



2.**Inactive User Engagement:** The team wants to encourage inactive users to start posting by sending them promotional emails.

Your Task: Identify users who have never posted a single photo on Instagram.

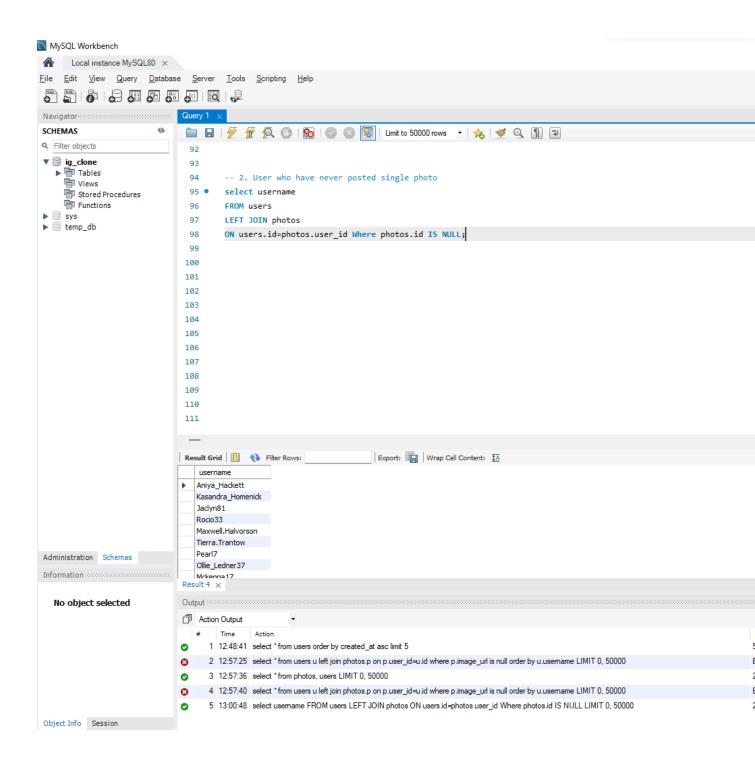
#### Syntax:

select username

FROM users

**LEFT JOIN photos** 

ON users.id=photos.user\_id Where photos.id IS NULL;

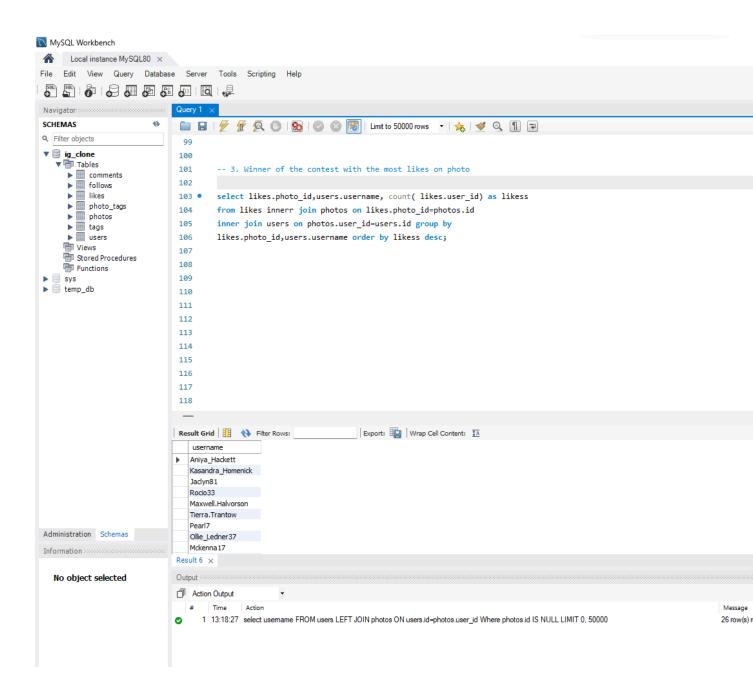


3.**Contest Winner Declaration:** The team has organized a contest where the user with the most likes on a single photo wins.

Your Task: Determine the winner of the contest and provide their details to the team.

#### Syntax:

select likes.photo\_id,users.username, count( likes.user\_id) as likess
from likes innerr join photos on likes.photo\_id=photos.id
inner join users on photos.user\_id=users.id group by
likes.photo\_id,users.username order by likess desc;



4. **Hashtag Research**: A partner brand wants to know the most popular hashtags to use in their posts to reach the most people.

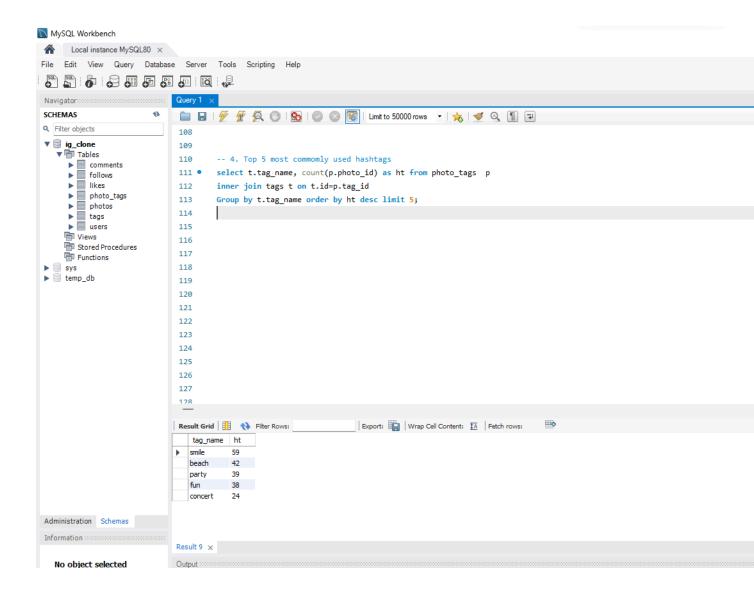
Your Task: Identify and suggest the top five most commonly used hashtags on the platform.

### Syntax:

select t.tag\_name, count(p.photo\_id) as ht from photo\_tags\_p

inner join tags t on t.id=p.tag\_id

Group by t.tag name order by ht desc limit 5;

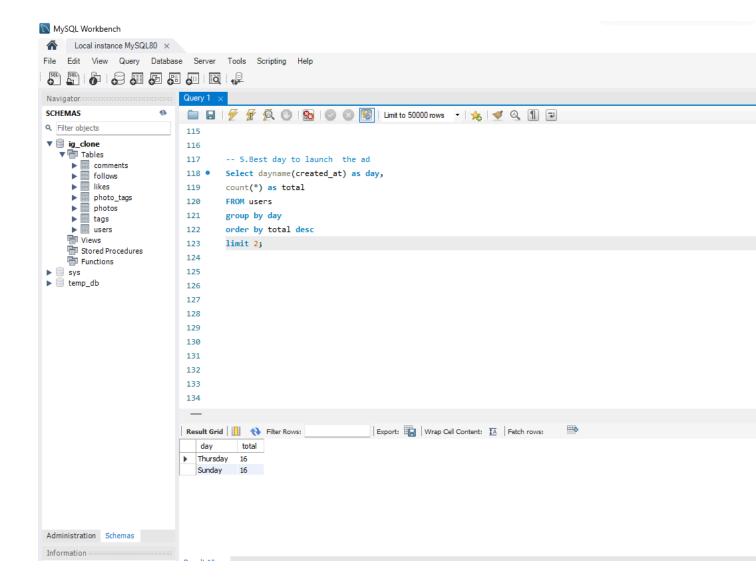


**5.Ad Campaign Launch:** The team wants to know the best day of the week to launch ads.

Your Task: Determine the day of the week when most users register on Instagram. Provide insights on when to schedule an ad campaign.

### Syntax:

Select dayname(created at) as day,
count(\*) as total
FROM users
group by day
order by total desc
limit 2;



# **B) Investor Metrics:**

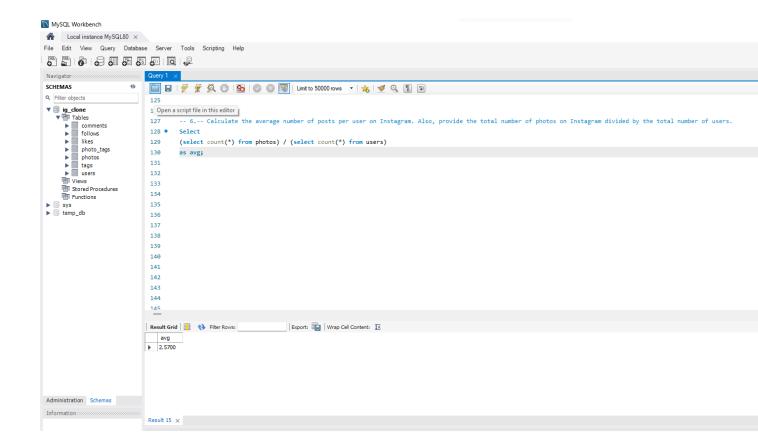
 User Engagement: Investors want to know if users are still active and posting on Instagram or if they are making fewer posts.
 Your Task: Calculate the average number of posts per user on Instagram.
 Also, provide the total number of photos on Instagram divided by the total number of users.

#### **Syntax**

#### **Select**

(select count(\*) from photos) / (select count(\*) from users)

#### as avg;

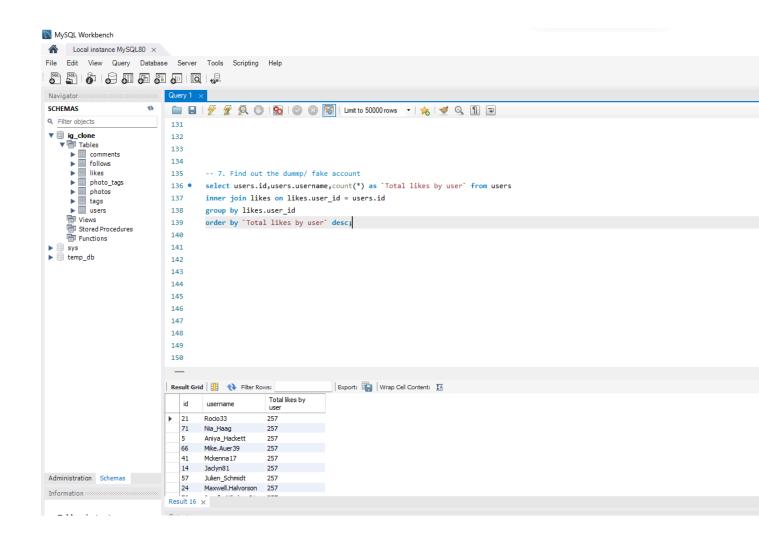


2.Bots & Fake Accounts: Investors want to know if the platform is crowded with fake and dummy accounts.

Your Task: Identify users (potential bots) who have liked every single photo on the site, as this is not typically possible for a normal user.

#### **Syntax**

select users.id,users.username,count(\*) as `Total likes by user` from users
inner join likes on likes.user\_id = users.id
group by likes.user\_id
order by `Total likes by user` desc;



#### **Drive link:**

#### **Summary of the project:**

During this project , I have learned a lot about . It helped me to understand the analysis , it provides useful and complex queries that made me understand more about the project. It also helped me to learn professionally based on what I have learned. Overall, the project was really beneficial. It improved my skills, gave me useful information, and helped me make better decisions