# **Instagram User Analytics**

# Project Description:-

This project studied how people sign up for Instagram on different days of the week, and used that information to figure out the best day to run advertisements. We looked at both when people created accounts and the pictures they posted to understand when they were most active and receptive to ads.

# Approach:-

#### 1. Data Import:

- a. I used a software tool called MySQL Workbench to load the data that was given to me into a database system called MySQL.
- b. I checked the data to make sure it was accurate and consistent by looking at how it was organized.

## 2. Exploratory Data Analysis:

- a. I conducted exploratory analysis to understand the distribution of user registrations over time.
- b. I examined patterns in user registration timestamps to identify peak days.

#### 3. SQL Queries:

- a. I used a programming language called SQL to ask questions to a database that stores data.
- b. I asked for information that was important or useful for some purpose, such as analysing user behaviour or improving a service.
- c. One of the types of information I asked for was which day of the week had the most users sign up for something, such as an account, a newsletter, or a subscription.

#### 4. Tech-Stack Used:

- a. MySQL Workbench: I opted for MySQL Workbench because it has a user-friendly interface and powerful capabilities for running SQL queries.
- b. Being familiar with the tool made it easy to explore and manipulate data efficiently.

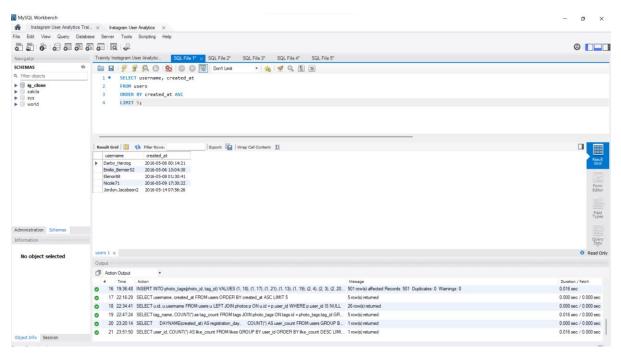
# 5. Insights:

- a. Peak Registration Day: Identified that "<u>Thursday</u>" has the highest number of user registrations
- b. This insight can guide the scheduling of ad campaigns to maximize reach during peak user activity.

#### 6. Result:

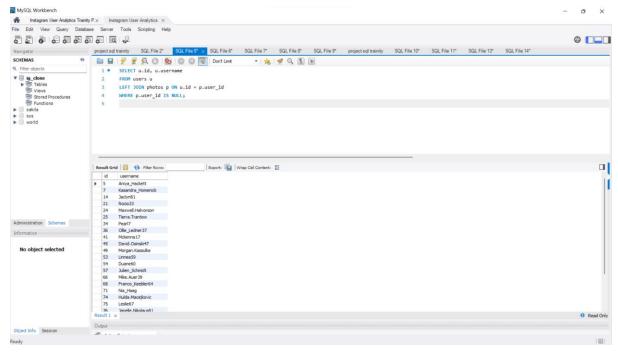
## A) Marketing Analysis:-

**1. Loyal User Reward** – These are the five oldest users as per the provided Instagram Database.



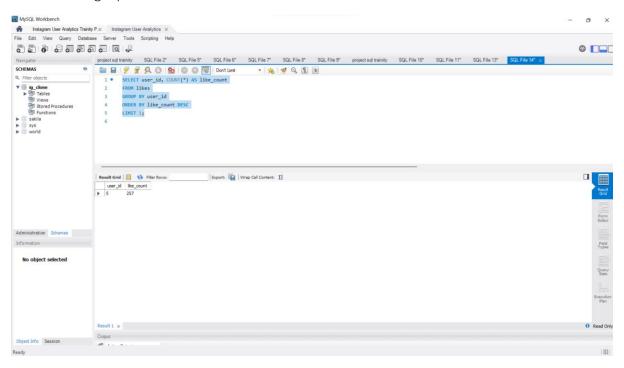
username	created at
Darby_Herzog	06-05-2016 00:14
Emilio_Bernier52	06-05-2016 13:04
Elenor88	08-05-2016 01:30
Nicole71	09-05-2016 17:30
Jordyn.Jacobson2	14-05-2016 07:56

2. Inactive User Engagement – These are the users who have never posted a single photo on Instagram. These are the users where the team has to encourage users by sending them promotional emails.

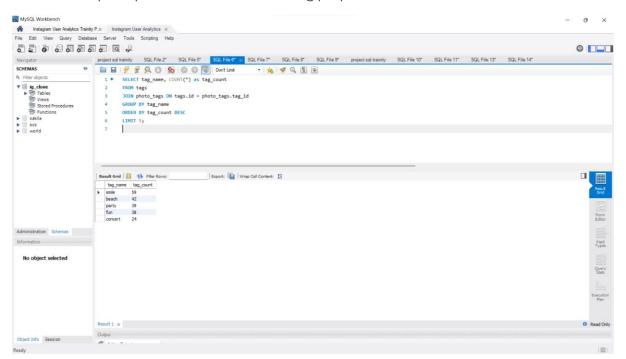


user. id	username
5	Aniya_Hackett
7	Kasandra_Homenick
14	Jaclyn81
21	Rocio33
24	Maxwell. Halvorson
25	Tierra.Trantow
34	Pearl7
36	Ollie_Ledner37
41	Mckenna17
45	David.Osinski47
49	Morgan.Kassulke
53	Linnea59
54	Duane60
57	Julien_Schmidt
66	Mike.Auer39
68	Franco_Keebler64
71	Nia_Haag
74	Hulda.Macejkovic
75	Leslie67
76	Janelle.Nikolaus81
80	Darby_Herzog
81	Esther. Zulauf 61
83	Bartholome.Bernhard
89	Jessyca_West
90	Esmeralda. Mraz 57
91	Bethany20

3. Contest Winner Declaration - The winner of the contest is "user id -5" and he has the most liked on a single photo that is 257 across all users.

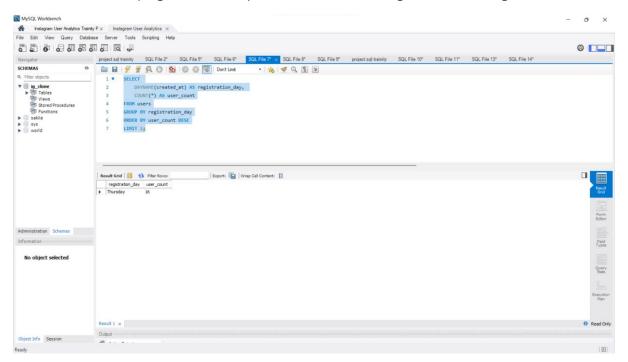


**4.** Hashtag Research – Top Five Most Commonly Used Hashtag on the Instagram are as below and it will help the partner brand for marketing purpose.



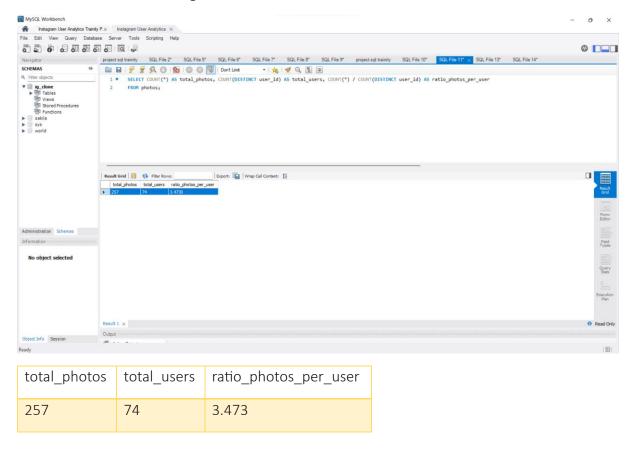
tag_name	tag_count
smile	59
beach	42
party	39
party fun	38
concert	24

**5.** Ad Campaign Launch – "<u>Thursday</u>" is the best day of the week to launch ads. Team can schedule an ad campaign on Thursday because most users registered on Instagram on this date.

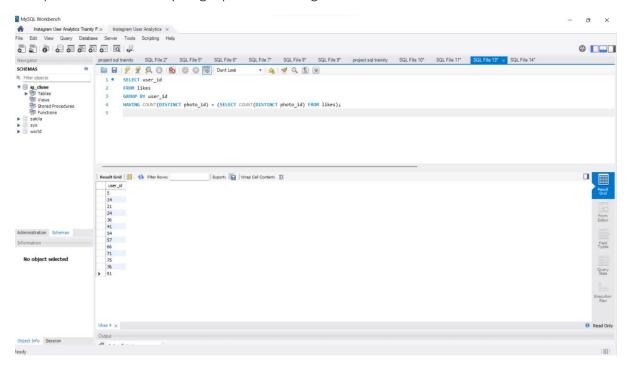


## B). Investor Metrics -

**1.** User Engagement – Average number of posts per Instagram user is 3.4730 and The Total Number of Photos on Instagram are 257 and the total number of users are 74.



**2. Bots & Fake Accounts**- This user id must be spam and there are 13 unique users (Potential Bots) who has liked every single posts on Instagram.



user_id
5
14
21
24
36
41
54
57
66
71
75
76
91

**Impact**- The impact of the analysis was substantial, giving me a deeper understanding of how users interact and engage with the app. These insights not only boosted my analytical skills but also provided practical information for future decision-making. The project wasn't just a learning experience; it was a hands-on application of my skills, demonstrating the real-world impact of data analysis.

**Summary**- In summary, the insights from the analysis not only enhanced my abilities as a data analyst but also positioned me to make meaningful contributions to the team's broader objectives and the success of the Instagram platform.

## 6. Drive Link-

Achievements - The project brought about significant achievements and turned out to be incredibly valuable. By successfully completing the analysis, I gained valuable insights that greatly improved my understanding of how users behave on Instagram.