#### **Instagram User Analytics**

## **Project Description:**

**Objective** – Analyse Instagram user behaviour using MYSQL workbench to provide a actionable insights for product development, marketing campaigns and investor relations. The aim is to answer the business questions using data driven actionable insights.

### Approach:

- 1. Load the dataset in the mysql workbench and ensure it is well structured.
- 2. Start querying about the dataset (list of tables and its content) and familiar with the data.
- 3. Query the database to analysis the marketing and investor metrics.

#### Tech-Stack used:

Tools I used for this project is Mysql workbench. It is open source and easy to install and user-friendly tool. Another reason of opting mysql workbench is I learned SQL using this tool.

## **Insights:**

The insights are,

- 1. In terms of loyalty and engagement, Identifying the oldest user and active users in platform can help the business target marketing campaigns.
- 2. By identifying the suspicious activity such as liking every single post which helps to maintain platform integrity.
- 3. Analysing the Contest performance by identifying the user engagement and contest performance.
- 4. To knowing the most liked content and popular hashtags on platform which helps the business or brands to use in their posts to cover more audience.

### **Result:**

This project enhanced my SQL querying abilities and understanding of social media user behaviour analytics.

#### **Drive link:**

Upload the SQL scripts and document for reference.

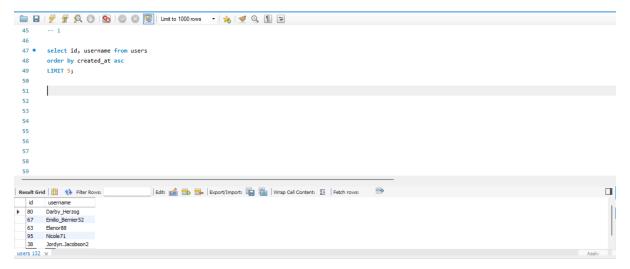
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# **Snap Shot of Analysis using MYSQL:**

## A) Marketing Analysis:

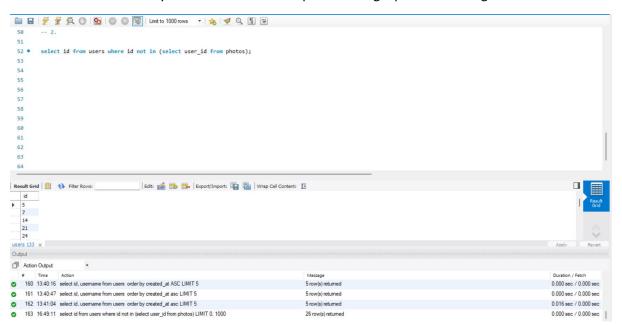
1. Loyal User Reward: The marketing team wants to reward the most loyal users, i.e., those who have been using the platform for the longest time.

Your Task: Identify the five oldest users on Instagram from the provided database.



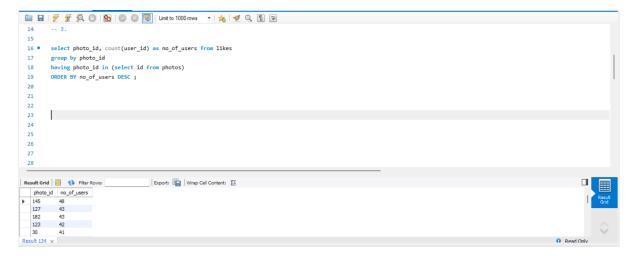
**2. Inactive User Engagement:** The team wants to encourage inactive users to start posting by sending them promotional emails.

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



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

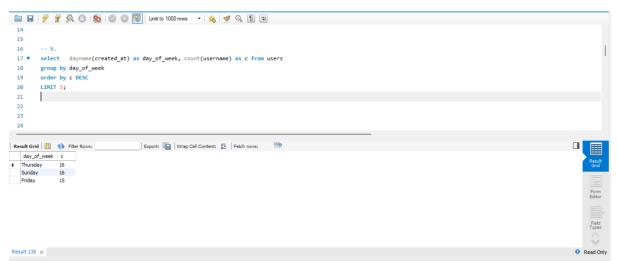
Your Task: Determine the winner of the contest and provide their details to the team.



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.

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.



**B) Investor Metrics:** 

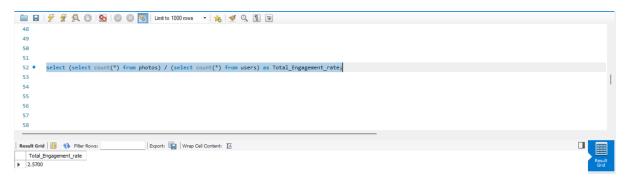
**1. User Engagement:** Investors want to know if users are still active and posting on Instagram or if they are making fewer posts.

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.

## Calculate the average number of posts per user on Instagram.



## Provide the total number of photos on Instagram divided by the total number of users.



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.

