INSTAGRAM USER ANALYTICS

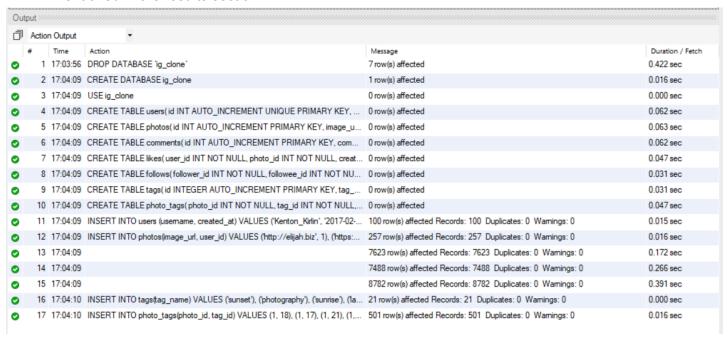
Project description

An Instagram user analytics project typically involves gathering and analyzing data related to user interactions, engagement, and demographics on the platform.

The goal of such a project is to gain insights into the behavior of an Instagram account's audience, understand what content resonates the most with them, identify trends, and optimize future content strategies

Approach

For this project, I used the dataset provided by the Trainity team to create the required tables and populate them accordingly in MySQL. The various queries I used to load the data and gain insights are mentioned in the results section



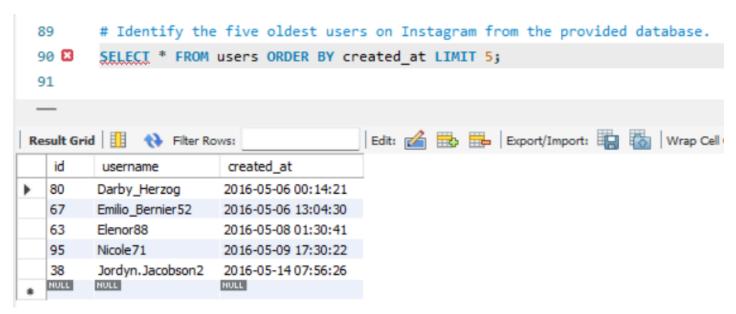
Tech Stack used

For this project, I have chosen MySQL for my database management software as it is the most widely used open-source relational database management system known for its stability and reliability. I have also used MySQL for a number of college projects hence it was my first choice

MySQL is optimized for performance, providing fast read and write operations, which is crucial for real-time analytics applications

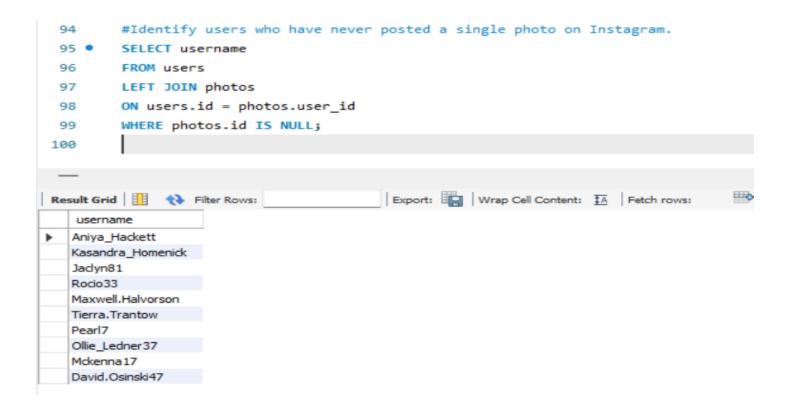
Insights

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.



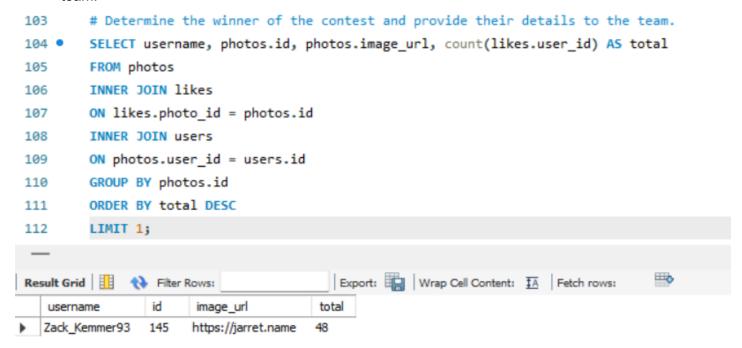
Therefore we found out that the five oldest users are Darby Herzog, Emilio Bernier, Elenor, Nicole and Jordyn Jacobson

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.



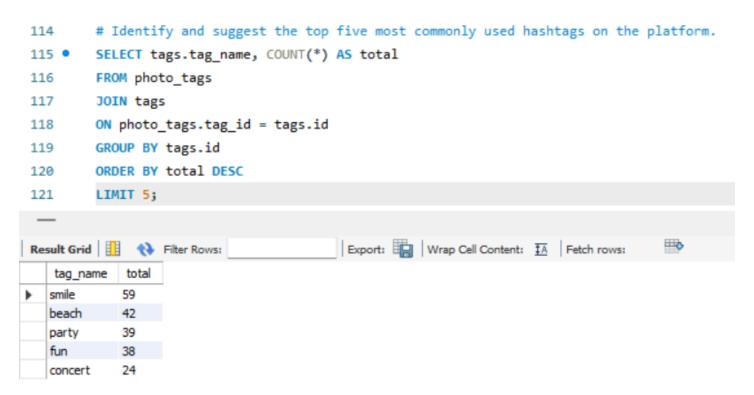
There the above users have never posted a single photo on instagram

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.



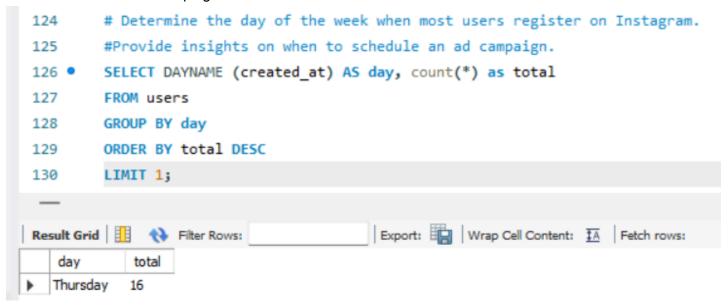
Therefore the winner of the contest is Zack Kemmer as he has the highest number of likes

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.



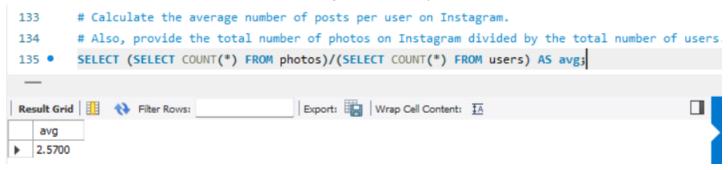
Therefore the top five most commonly used hashtags are smile, beach, party, fun and concert

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.



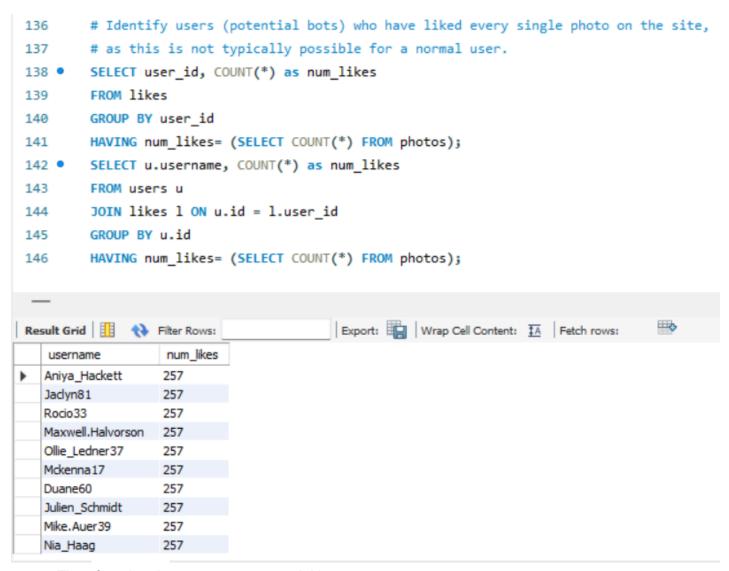
Therefore the best day to launch ads is thursday

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.



The average number of posts per user is 2.57

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.



Therefore the above users are potential bots

Results

Hence we were able to the MySQL database management software to fire multiple queries that gave us valuable insights on instagram user analytics