

PROJECT DESCRIPTION

- In the era of social media domination, it is essential for both individuals and organizations to comprehend user behavior and engagement. The goal of this Instagram User Analytics project is to offer in-depth knowledge about user behavior, interests, and trends on the social media network.
- My primary objective is to analyze Instagram user data for insightful information that will ultimately help to improve the platform's functionality. The objective is to supply the Instagram team with useful information that they can utilize to enhance user experience, optimize content algorithms, and promote platform-wide efficiency gains.
- The intention is to provide the product manager and the team as a whole with useful information that will influence the app's future development and user experience.

APPROACH

• This project is approached in a fairly straightforward manner. SQL is utilized to carry out the job. With the given raw data, a database is created using SQL queries. After the database was constructed, different sorting and data extraction queries were utilized to obtain the necessary information.

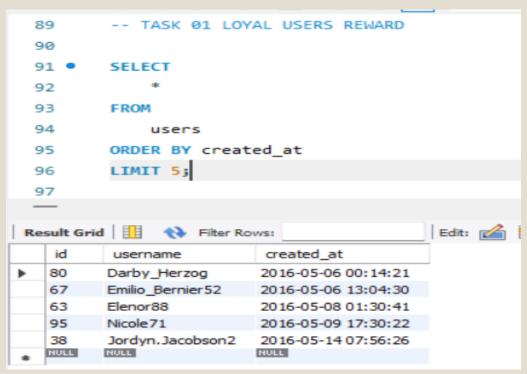
TECH-STACK USED

- My SQL Workbench (8.0.34): The main interactive development environment for SQL queries is MySQL Workbench. It makes creating, running, and debugging queries for data analysis more efficient. It provides a visual tool for designing, creating, and modifying databases.
- It includes a SQL Editor with syntax highlighting, code completion, and SQL execution capabilities, making it easier for developers to write and test SQL queries.
- It offers tools for query optimization and performance tuning, helping users to identify and resolve performance issues in their SQL queries.
- It supports collaboration features, allowing multiple users to work on a database model simultaneously. It also integrates with version control systems such as Git.

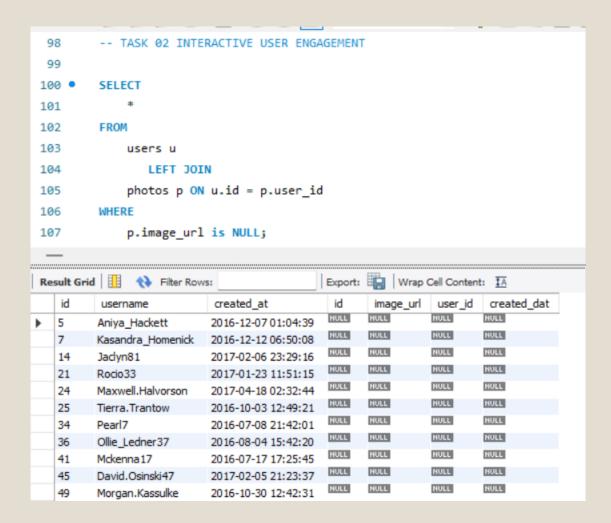
INSIGHTS

A) MARKETING ANALYSIS

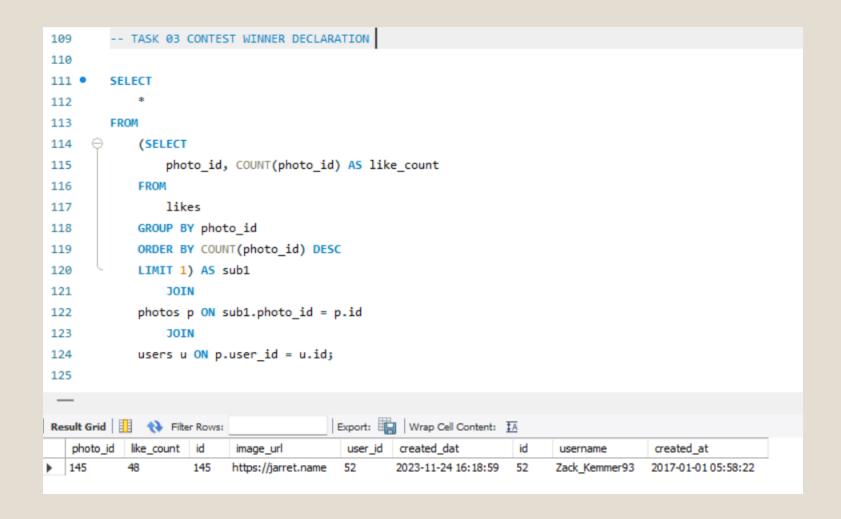
1. Loyal User Rewards: Identify the five oldest users on Instagram from the provided database.



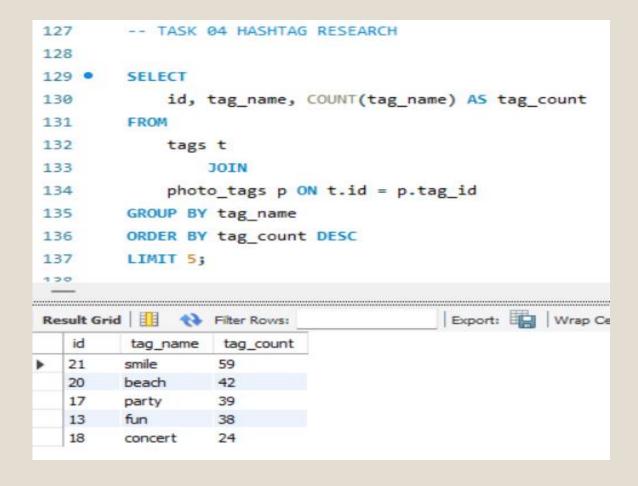
2. Inactive User Engagement: Identify users who have never posted a single photo on Instagram.



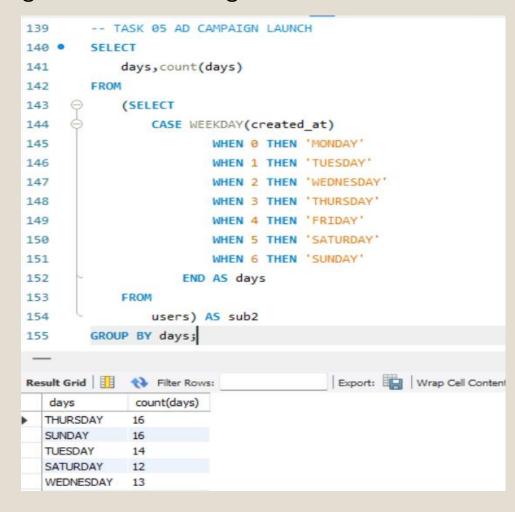
3. Contest Winner Declaration: Determine the winner of the contest and provide their details to the team.



4. Hashtag Research: Identify and suggest the top five most commonly used hashtags on the platform.



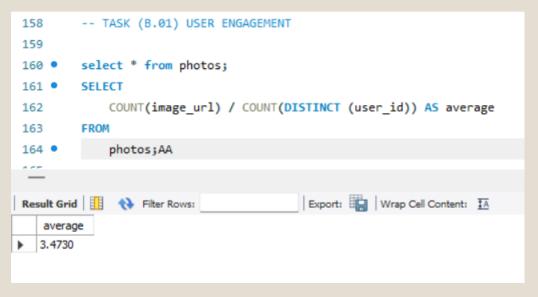
5. Ad Campaign Launch: Determine the day of the week when most users register on Instagram. Provide insights on when to schedule an ad campaign.

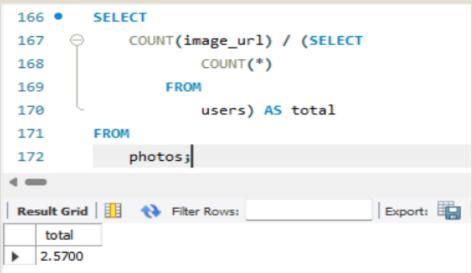


 The best day to schedule an ad campaign for the registration of Instagram users will be both Thursday and Sunday due to a large count in the registration of new users.

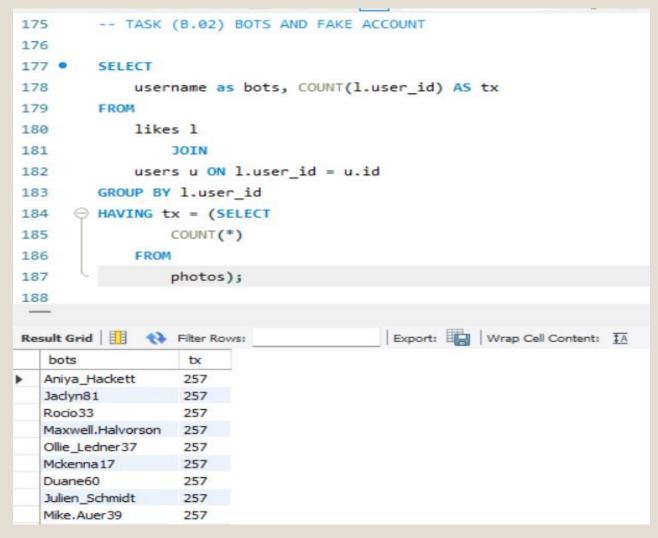
B) INVESTER MATRICS

1. User Engagement: 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.





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



RESULTS

- This project helped me to sharpen my SQL skills.
- This project integrated my knowledge of SQL by learning about the SQL clauses such as the join clauses and sub-queries, understood the concepts of order by, group by, understood the difference between where and having clause and many more.
- Also learned how to engage with a database and customize the query for obtaining the specific desired results.

THANK YOU