INSTAGRAM

USER ANALYTICS

TRAINITY
PROJECT-2

DESCRIPTION

Welcome to the data analysis project, where I delves into the intricate world of Instagram(clone),As a learning data analyst embedded with the Instagram trainity team, I'm diving into user interaction metrics to uncover valuable insights that can shape the future of this iconic social media platform. Using the powerful combination of SQL and MySQL Workbench, my mission is to translate data into strategic decisions, from boosting user engagement to refining product features, and empower the product, marketing and investor teams with data-driven intelligence .

By analyzing:

- Most loyal users
- Inactive users
- User with the most likes on a single post
- most popular hashtags
- Day of the week when most users registered on Instagram
- Ad campaign launch
- Boats and Fake accounts

APPROACH:

- Firstly, I imported the dataset provided by team into MySQL workbench
- Understood the Data schema thoroughly ,the structure of Instagram database ,including tables, columns and relationship
- Data analysis using MYSQL
- Applying appropriate queries to solve given problem statements

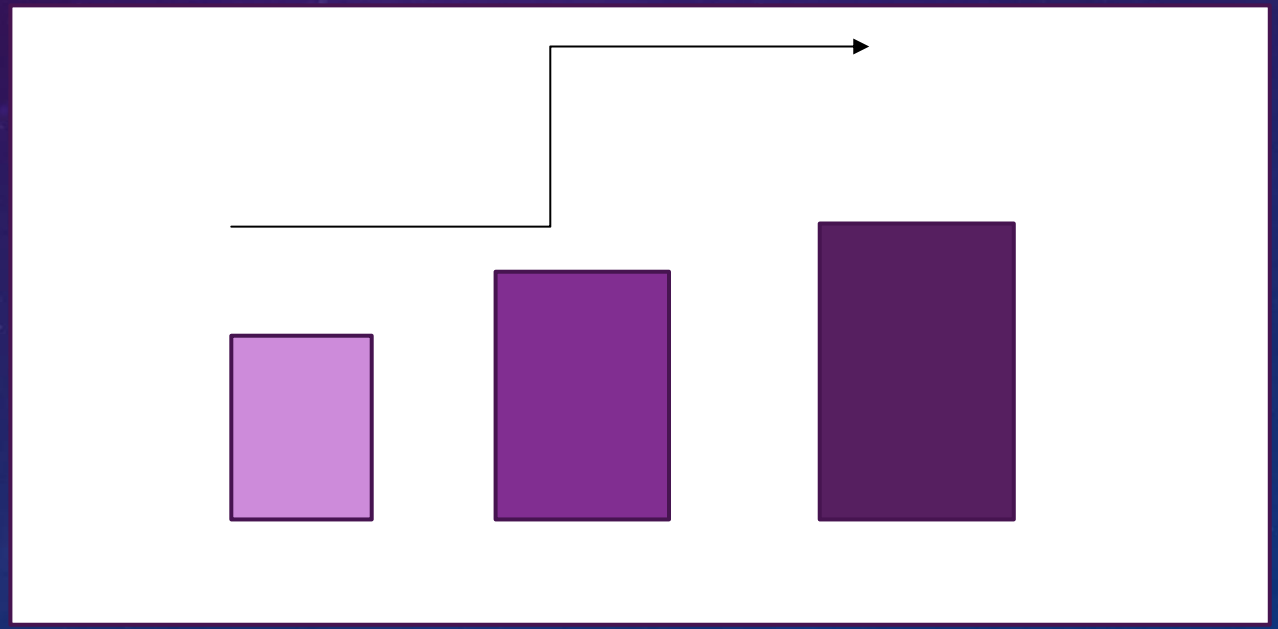
TECH-STACK USED:

- MYSQL WORKBENCH 8.0 CE

MySQL Workbench 8.0 CE offers a user-friendly interface for managing databases, featuring tools for visual database design, SQL development, and administration. It allows users to create and manage ER diagrams, write and debug SQL code, and handle tasks like backups, recovery, and user management. With cross-platform compatibility, visual performance dashboards, and support for plugins and scripting, it simplifies database design, development, and maintenance, making it an ideal tool for developers and administrators.

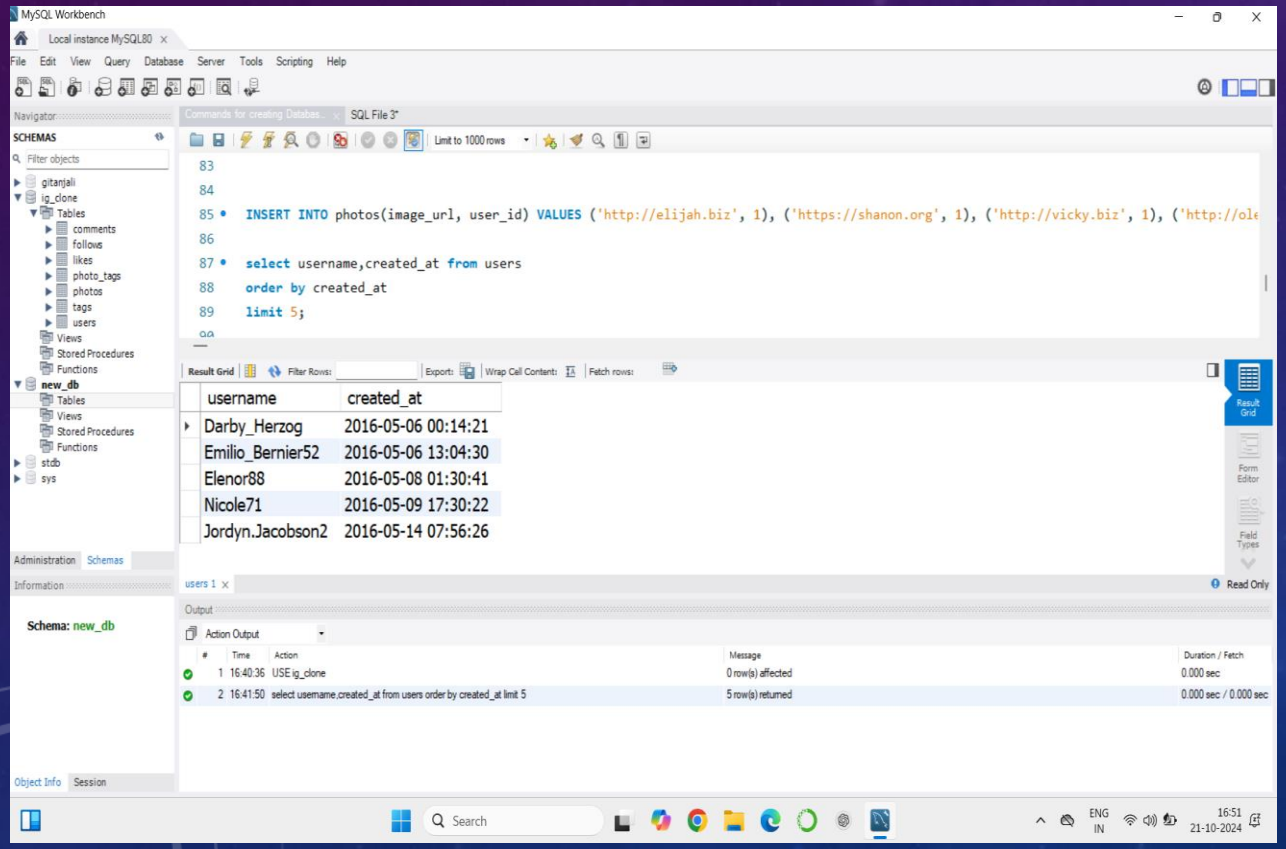
INSIGHTS

Marketing Analysis



1. LOYAL USER REWARD

TASK: The top five oldest users on Instagram from the provided dataset.

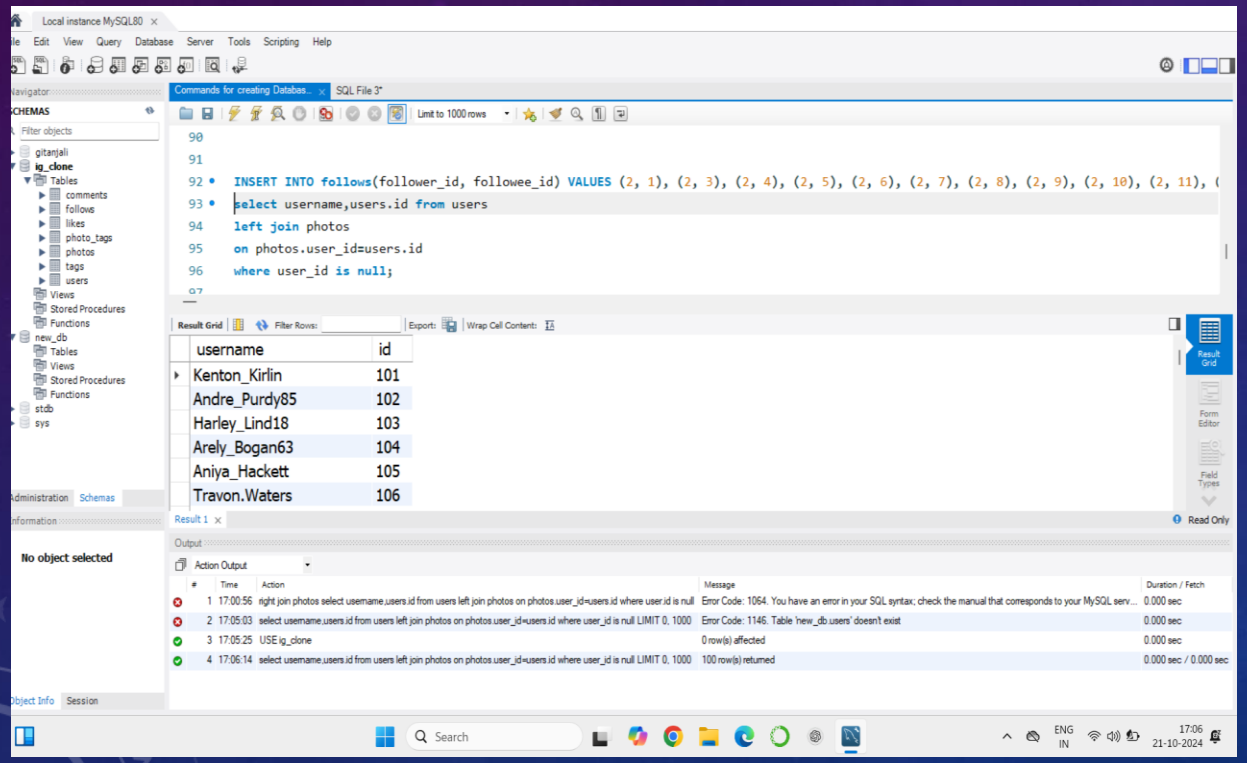


The marketing team wants to reward the most loyal users, i.e., those who have been using the platform for the longest time.

- To find the solution to this problem, I simply selected the required the columns from users table and ordered them accordingly. Since the required limit was 5, so I put on the limit condition to be 5.

2. ACTIVE USER ENGAGEMENT

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



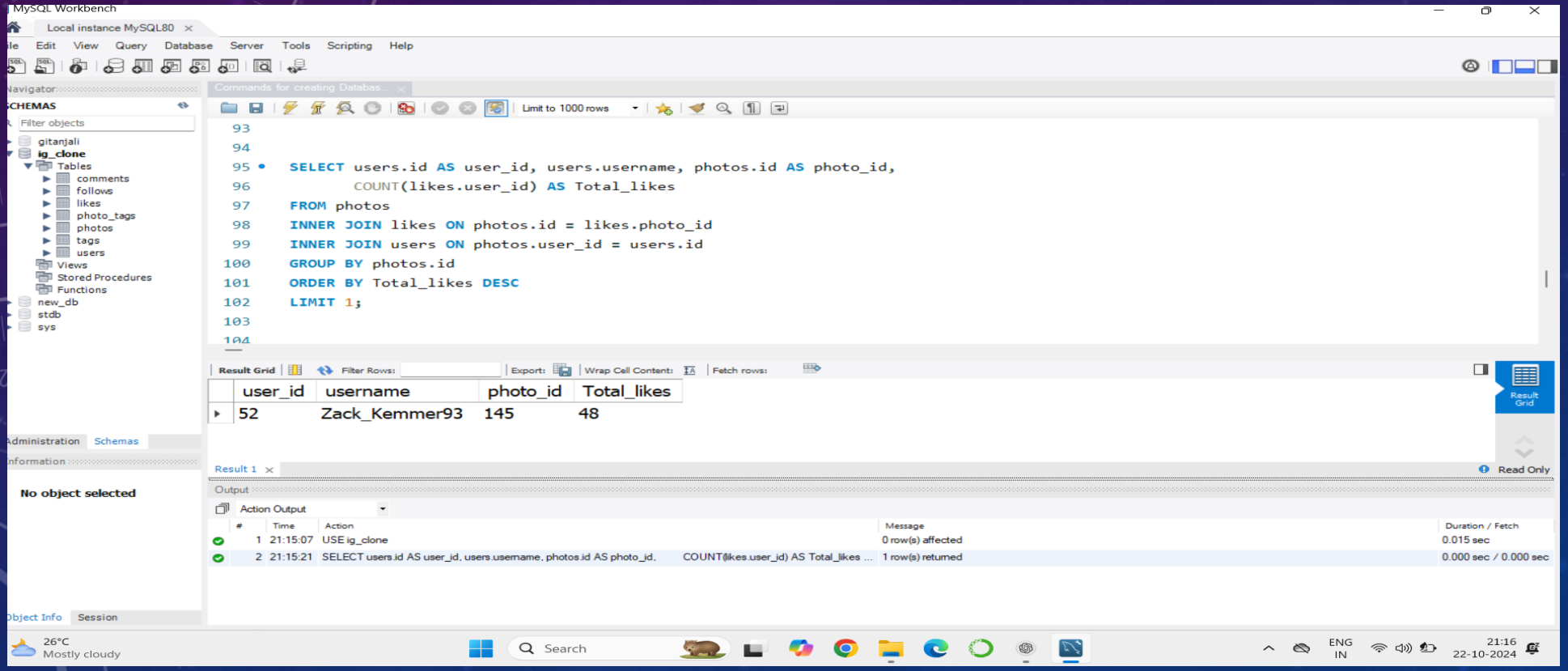
The team wants to encourage inactive users to start posting by sending them promotional emails.

To solve this problem, I joined two tables namely, users and photos. After joining, I applied ‘where’ condition to identify the users who never posted a photo.

3. CONTEST WINNER DECLARATION

TASK: determine the winner of the contest and provide their details to the team

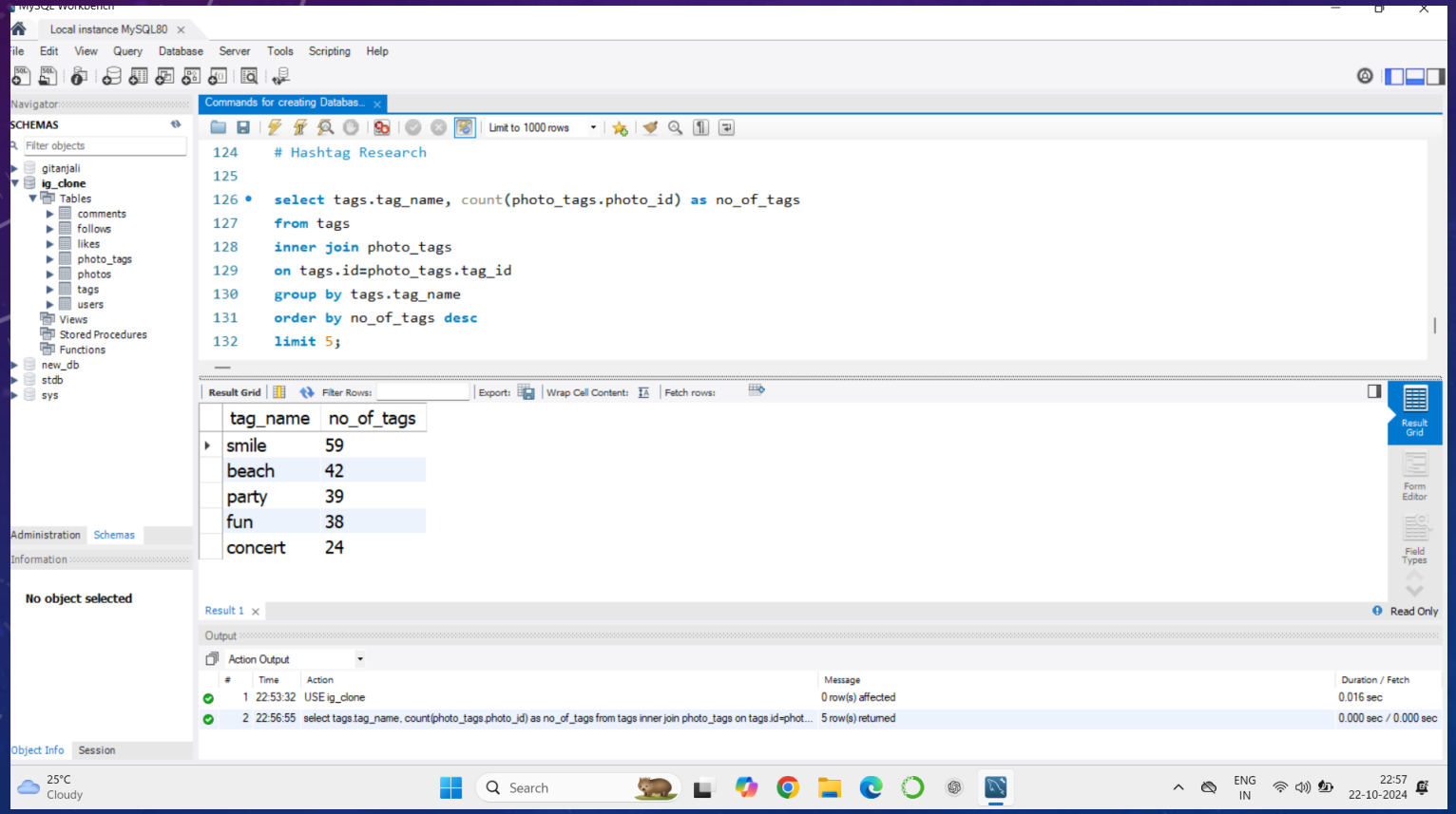
- The user id having 52 with the most likes on a single post wins the contest



4. HASHTAG RESEARCH

TASK: identify and suggest the top five most commonly used hashtags on the platform

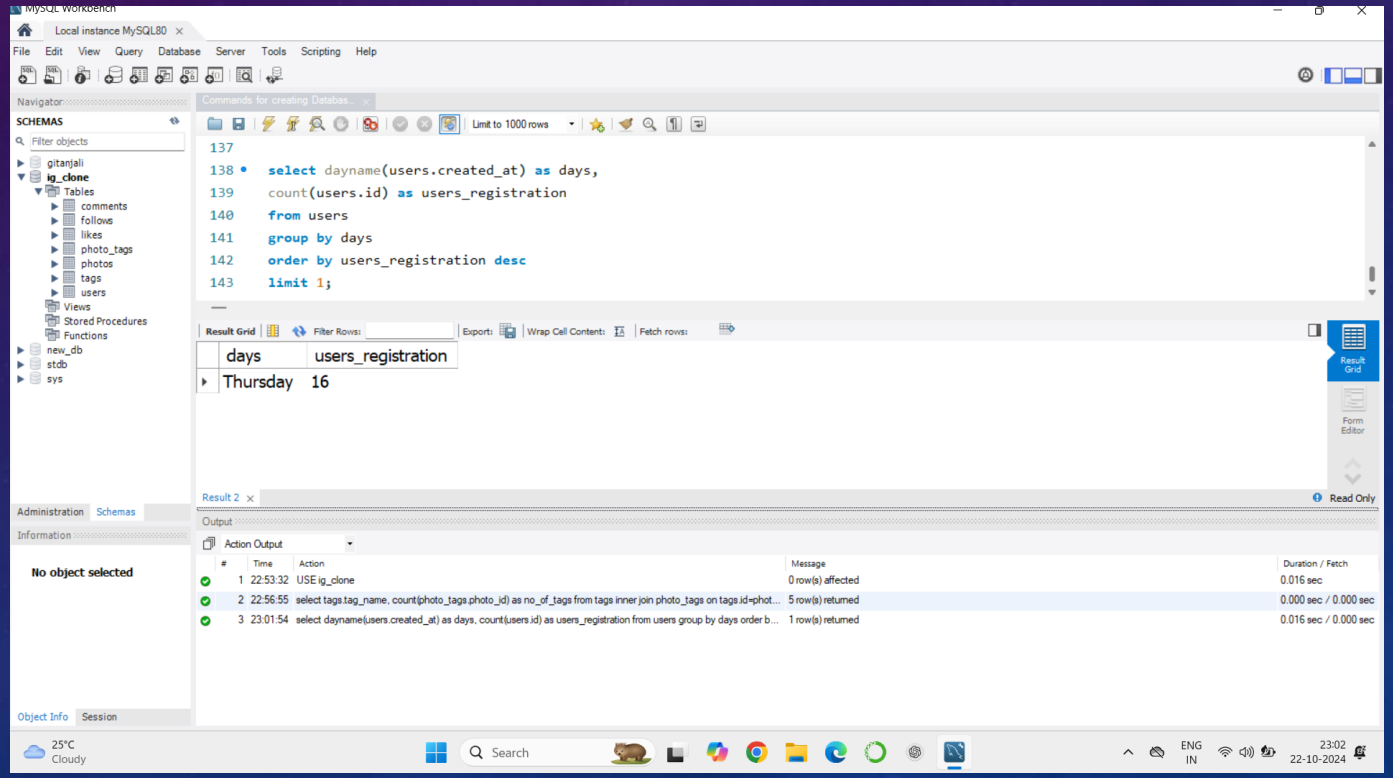
The top five most commonly used hashtag to use in their posts to reach the most peoples are : smile, beach, party, fun, concert .



5. AD CAMPAIGN LAUNCH

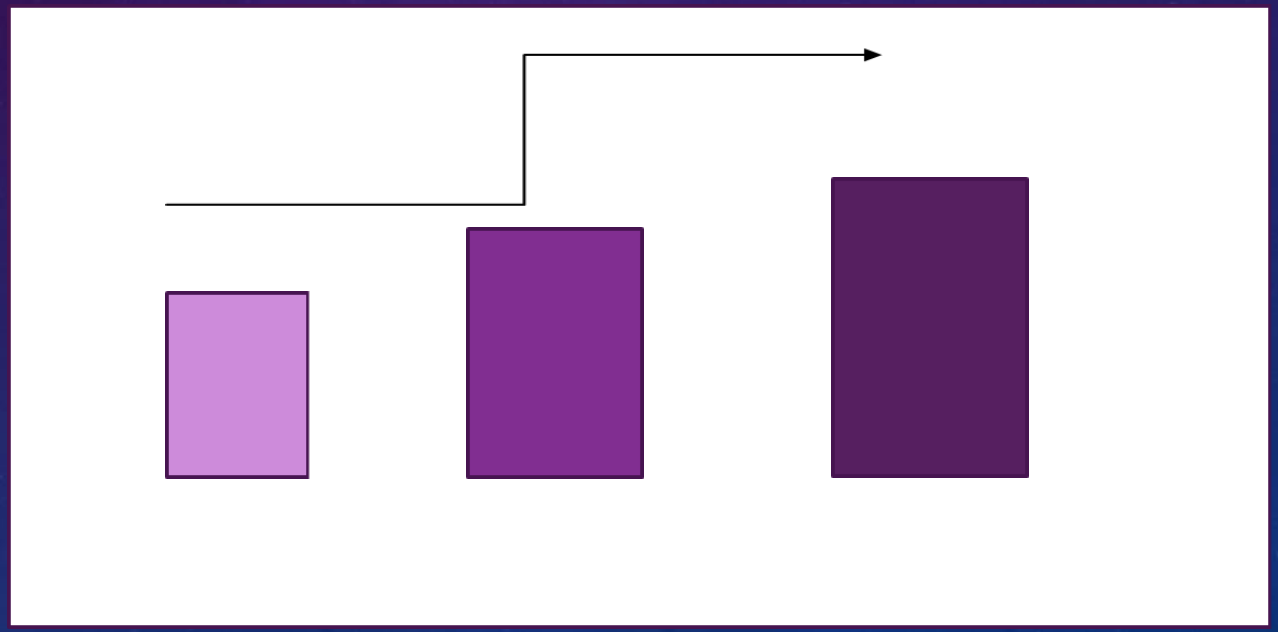
Task: Determine the day of the week when most users registered on Instagram

The best day of the week to launch ads is : THURSDAY



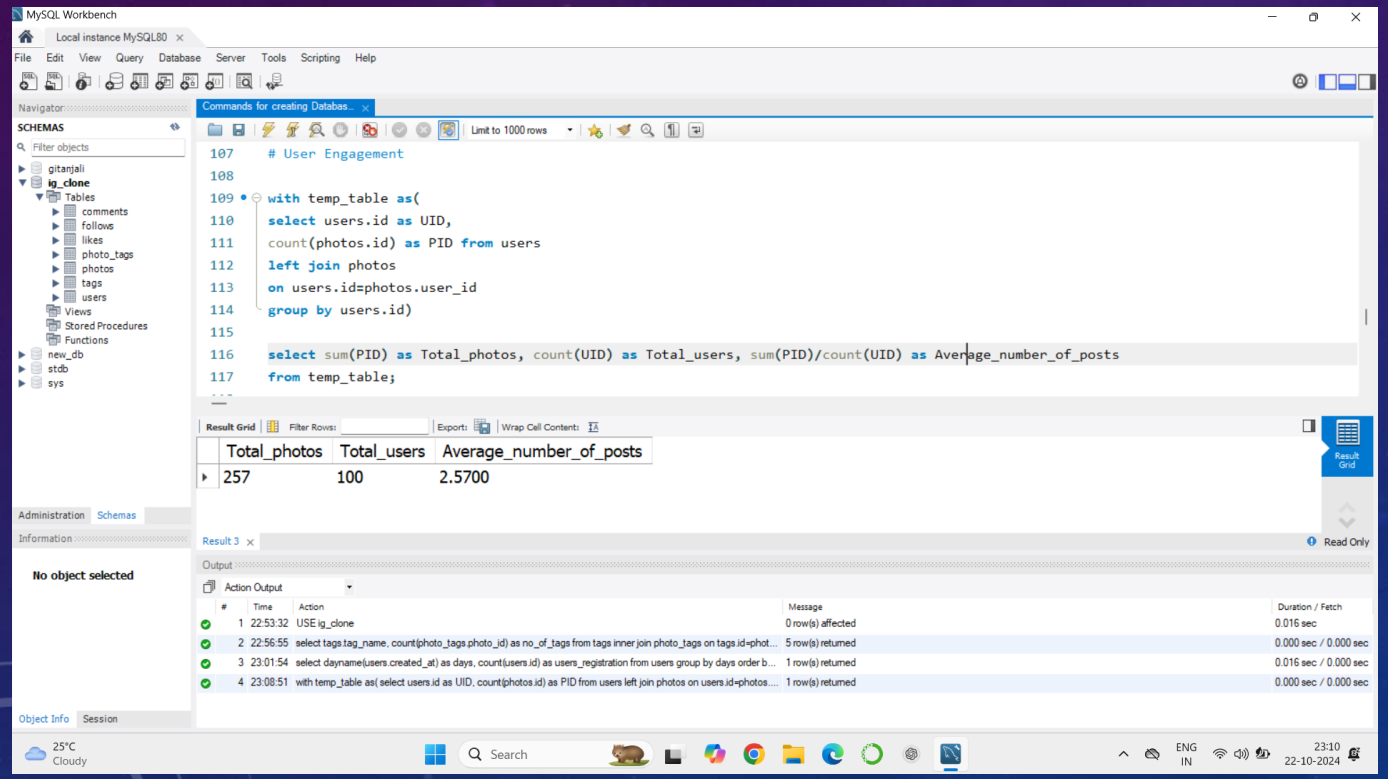
INSIGHTS

Investor metrics



6. USER ENGAGEMENT

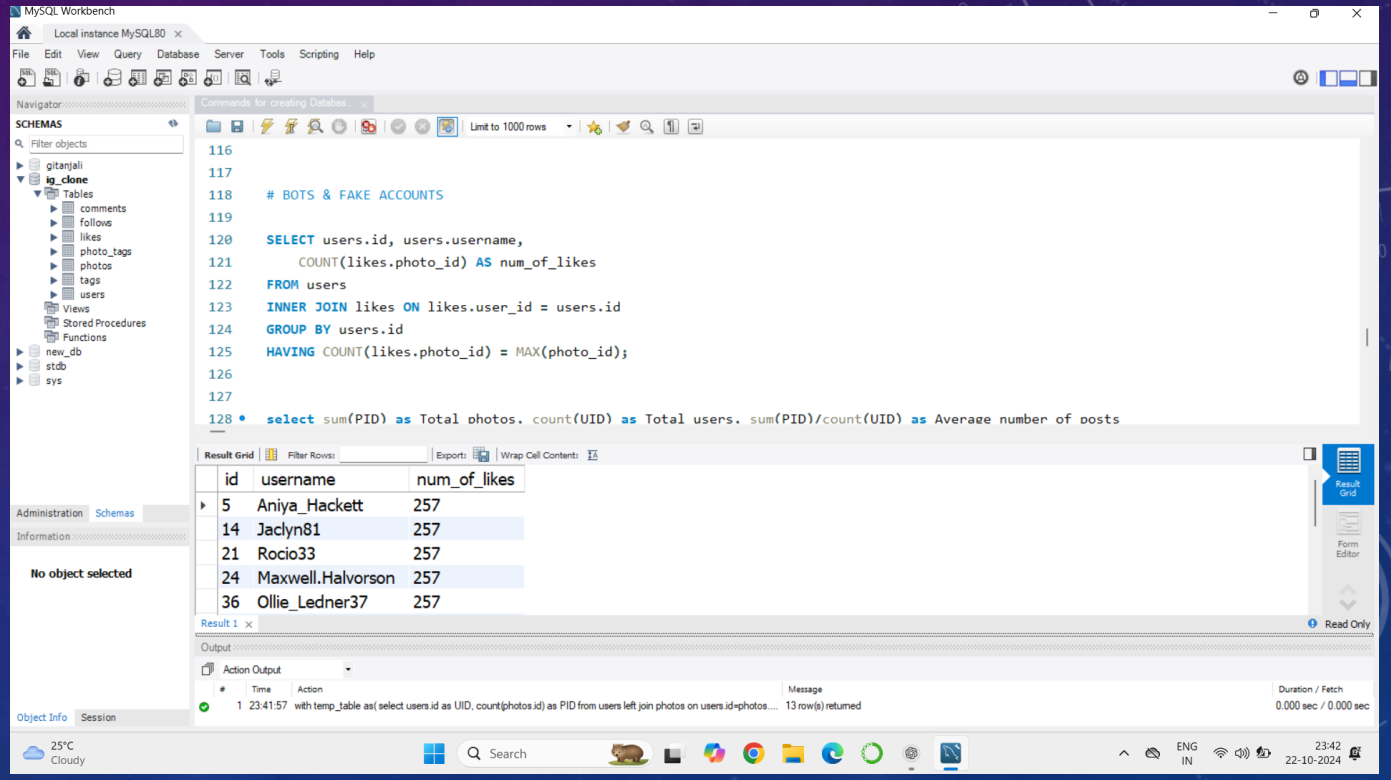
Task: Calculate the average number of posts per user on Instagram. Also, provide the total number of photos on Instagram divided by the total number of users.



Total_photos : 257
Total_users : 100
Average_no_of_posts: 25700

7. BOTS AND FAKE ACCOUNTS

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



RESULT

- FOR MARKETING TEAM:

1. The 5 most loyal users identified.
2. There are 26 inactive users who have never posted a single post.
3. Zack_kimmer93 is the winner of contest.
4. The top five commonly used hashtags identified.
5. THURSDAY IS THE BEST DAY TO REGEDTER ON INSTAGRAM.

- FOR INVESTOR TEAM:

1. The average number of posts per user is 2-3 in a day.
2. There are 23 account found to be fake as they liked all 257 posts.

- I completed this project by learning some basic lectures of MySQL from TRAINITY platform. This project helped me to work on real-life-problems and gained practical knowledge while working on this project and learned to apply most of the Functionalities. From this project I got to know how the real-life problems tackled to get valuable insights for business which would contribute to the growth of companies/organization.

THANKS!

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