

# Instagram User Analysis

### Project description

#### Followers

The purpose of this project is analysing user interactions and engagement with the Instagram app in order to offer insightful information that can support the expansion of the company.

Monitoring how consumers interact with digital products, like software or mobile apps, is known as user analysis. Several teams within the company can make use of the insights obtained from this investigation. For instance, the product team may use these insights to choose which new features to develop, the marketing team may use them to start a new campaign, and the development team may use them to enhance the user experience in general.

In order to evaluate Instagram user data and respond to inquiries from the management team, we will be utilizing SQL and MySQL Workbench for this project. The product manager and the other team members will use your insights to make well-informed decisions regarding the Instagram app's future course.

## **Approach**

Followers

Likes

Firstly I installed MYSQL software and with the help of the videos provided by trainity I was able to build my basics on the software and relational database MYSQL.

After installing I created the database "ig\_clone" using the command provided, and visually analysed each and every command's functionality. What tables are being created, what are the attributes and inputs used, how can one data be linked to another.

Likes

For this project, I have installed a Windows 11 vm on my mac using UTM where in I installed the software - MySQL Workbench 8.o.

I have been using the same for all the analysis as it is a versatile tool that offers several advantages for data analysis projects like-

- 1. User friendly interface
- 2. Powerful editor
- 3. Great visualisation
- 4. Compatible with large datasets
- 5. Secure

I have also used Microsoft Excel.

# Insights





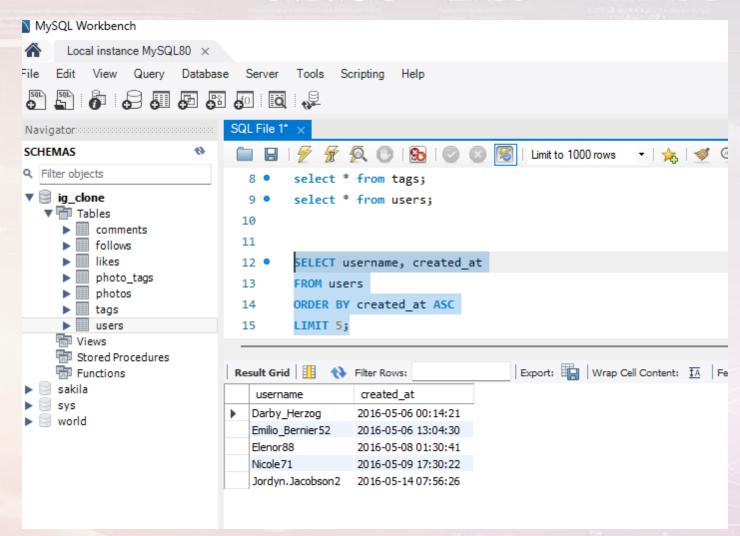


Knowledge and Understanding Acquired from Instagram User Analysis: User Engagement Trends

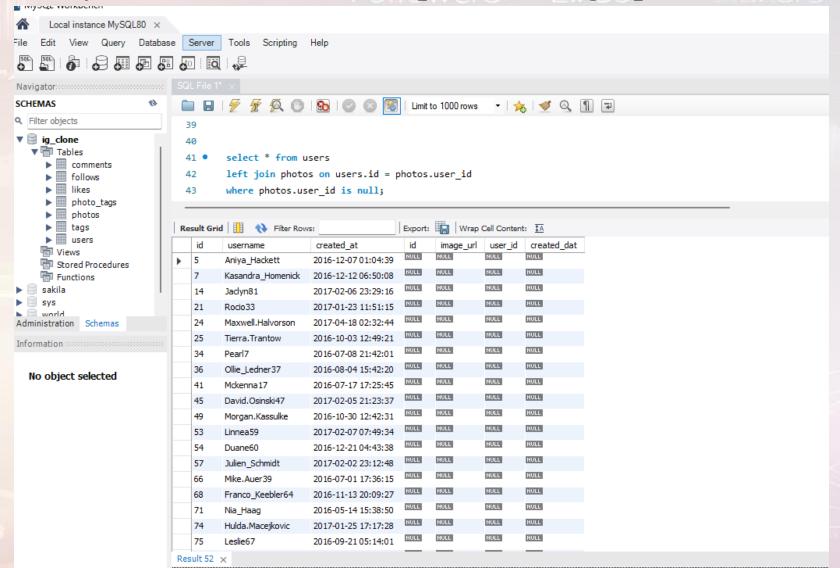
- 1. Users that regularly shared excellent visual content with popular hashtags showed high levels of interaction.
- 2. Relevant and trending hashtags have a big impact on post interaction and reach. The significance of hashtag strategy was shown by the fact that the majority of user interactions were attributed to the top five hashtags.
- 3. In terms of likes and in order to increase engagement, visual appeal and relatable descriptions were essential.
- 4. It was found that the number of followers increased in direct proportion to the frequency of posting.
- 5. The perceived worth of the prizes and the simplicity of the contest rules were associated with distinct patterns of participation.
- 6. MySQL Workbench offered a smooth environment for effective data analysis and querying.

  Performance was enhanced by using indexes and optimizing queries, particularly when examining huge datasets.
- 7. Trending Hashtags Are Important
- 8. Activity of the users and their contribution to the platform increases engagement.

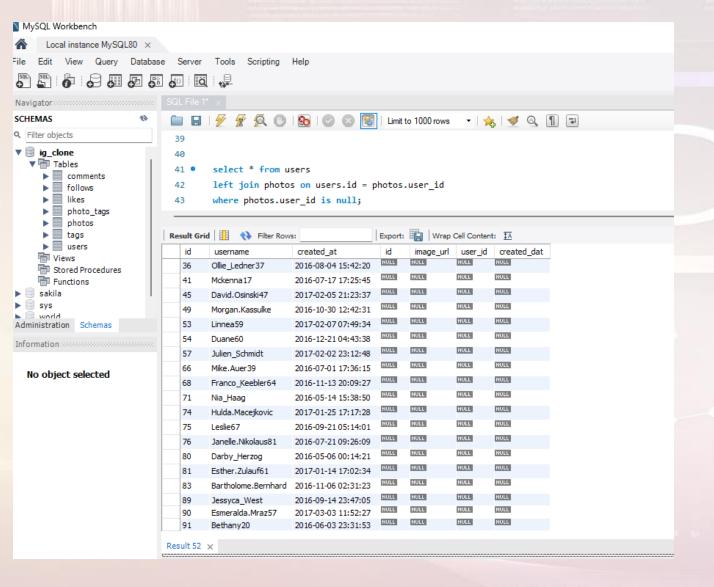
Task 1- Identify the five oldest users on Instagram from the provided database.



Task 2- Identify users who have never posted a single photo on Instagram.

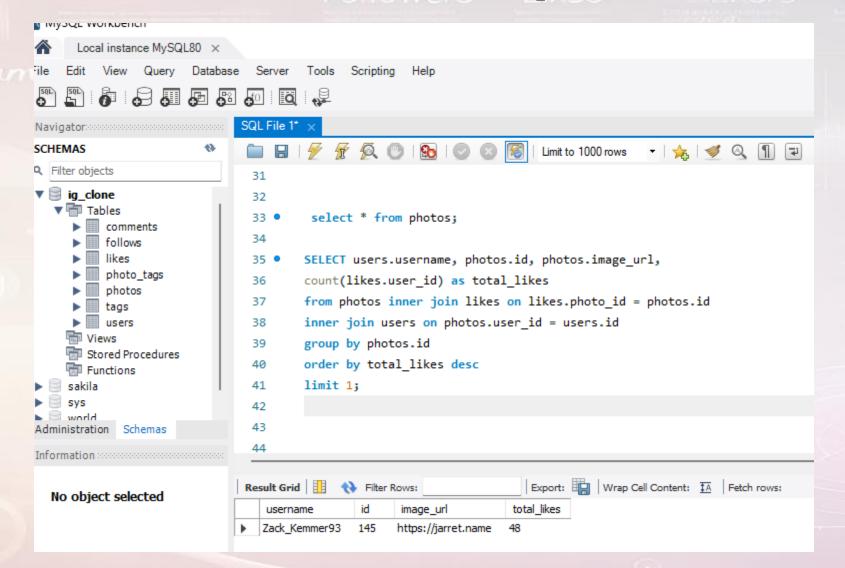


# Task 2- Identify users who have never posted a single photo on Instagram.



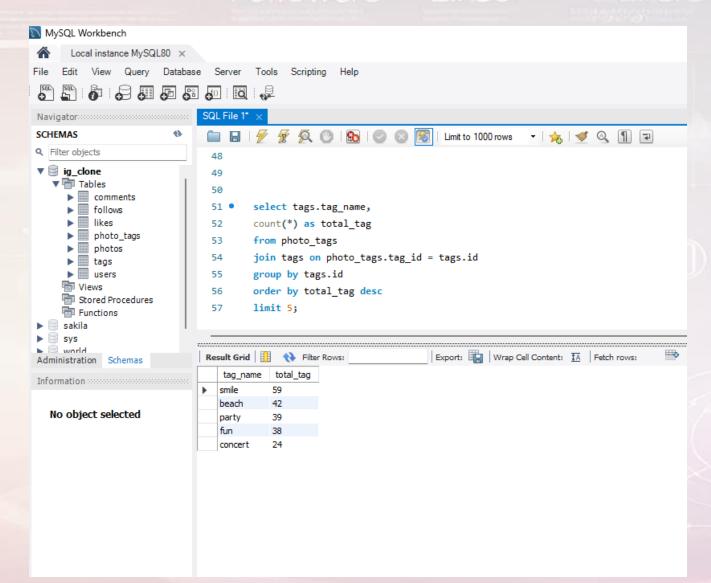
Α	В	С	D	E	F	G
id	username	created_at	id	image_url	user_id	created_dat
5	Aniya_Hackett	07/12/16 1:04	NULL		NULL	NULL
7	Kasandra_Homenick	12/12/16 6:50	NULL	NULL	NULL	NULL
14	Jaclyn81	06/02/17 23:29	NULL	NULL	NULL	NULL
21	Rocio33	23/01/17 11:51	NULL	NULL	NULL	NULL
24	Maxwell.Halvorson	18/04/17 2:32	NULL	NULL	NULL	NULL
25	Tierra.Trantow	03/10/16 12:49	NULL	NULL	NULL	NULL
34	Pearl7	08/07/16 21:42	NULL	NULL	NULL	NULL
36	Ollie_Ledner37	04/08/16 15:42	NULL	NULL	NULL	NULL
41	Mckenna17	17/07/16 17:25	NULL	NULL	NULL	NULL
45	David.Osinski47	05/02/17 21:23	NULL	NULL	NULL	NULL
49	Morgan.Kassulke	30/10/16 12:42	NULL	NULL	NULL	NULL
53	Linnea59	07/02/17 7:49	NULL	NULL	NULL	NULL
54	Duane60	21/12/16 4:43	NULL	NULL	NULL	NULL
57	Julien_Schmidt	02/02/17 23:12	NULL	NULL	NULL	NULL
66	Mike.Auer39	01/07/16 17:36	NULL	NULL	NULL	NULL
68	Franco_Keebler64	13/11/16 20:09	NULL	NULL	NULL	NULL
71	Nia_Haag	14/05/16 15:38	NULL	NULL	NULL	NULL
74	Hulda.Macejkovic	25/01/17 17:17	NULL	NULL	NULL	NULL
75	Leslie67	21/09/16 5:14	NULL	NULL	NULL	NULL
76	Janelle.Nikolaus81	21/07/16 9:26	NULL	NULL	NULL	NULL
80	Darby_Herzog	06/05/16 0:14	NULL	NULL	NULL	NULL
81	Esther.Zulauf61	14/01/17 17:02	NULL	NULL	NULL	NULL
83	Bartholome.Bernhard	06/11/16 2:31	NULL	NULL	NULL	NULL
89	Jessyca_West	14/09/16 23:47	NULL	NULL	NULL	NULL
90	Esmeralda.Mraz57	03/03/17 11:52	NULL	NULL	NULL	NULL
91	Bethany20	03/06/16 23:31	NULL	NULL	NULL	NULL

**Task 3-** Determine the winner of the contest and provide their details to the team.

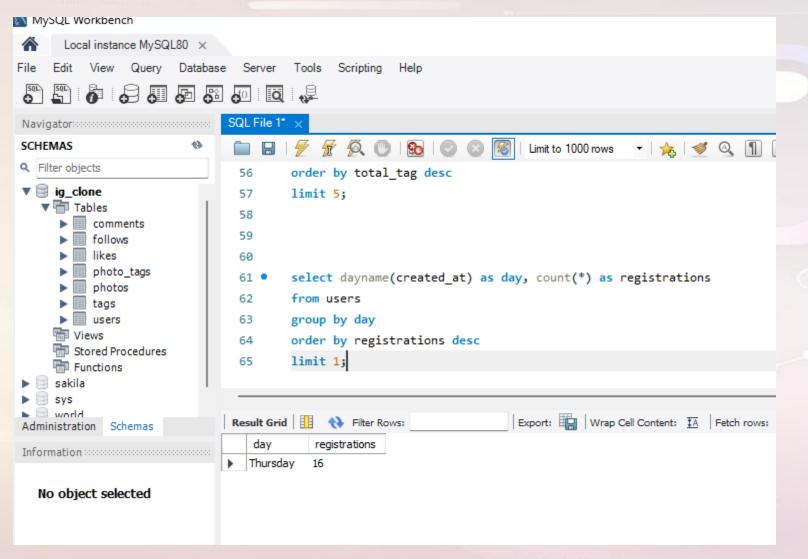


Task 4- Identify and suggest the top five most commonly used hashtags on the

platform.

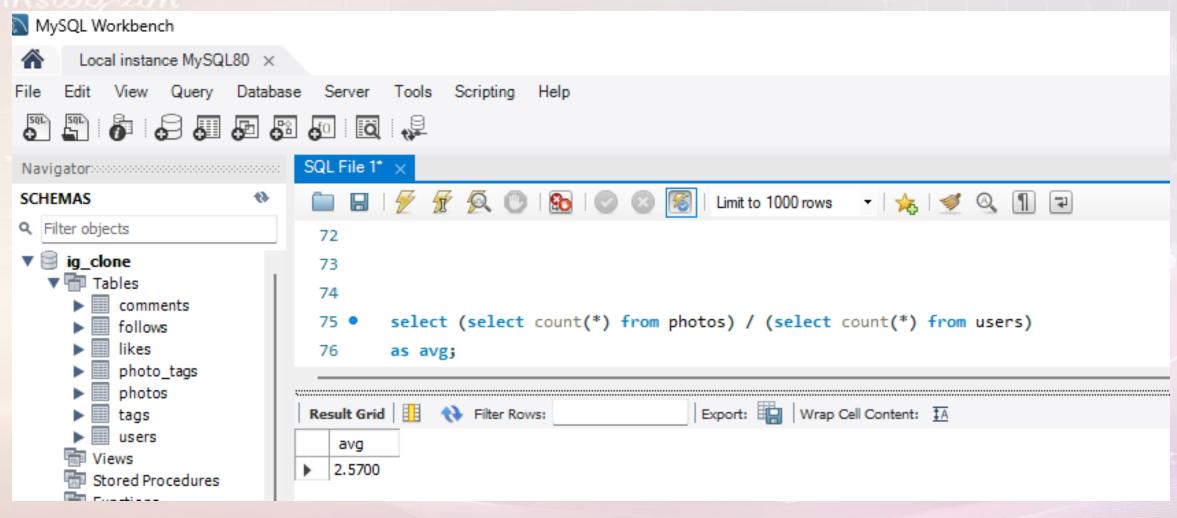


**Task 5-** Determine the day of the week when most users register on Instagram. Provide insights on when to schedule an ad campaign.



Campaign should be scheduled on Thursday as it has the maximum no of engagements as compared to other days of the week.

**Task** 6- 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.



**Task 7-** Identify users (potential bots) who have liked every single photo on the site, as this is not typically possible for a normal user.

