# **Instagram User Analytics Project**

### **Purpose**

The goal of this project is to study and analyse the user behaviour on Instagram and give insights to the stakeholders.

The project will identify the ways to derive business insights for marketing, product & development teams. Through this project, we will gain the knowledge about user behaviour and the engagement over the platform.

The final deliverable will recommend the most used hashtags, bot users and days to run the successful ad campaign.

#### **Database**

In order to draw meaningful conclusions that could be used for further decision making.

I had to collect data first. So, for that the commands were run from the following attachment:

https://docs.google.com/document/d/1-WhNRX1iYJIz7e5128DMPWgsPklpE\_w6/edit

in order to get a better understanding of the target audience and their needs. I also had to analyse the collected data

To complete this project the software used is DATABASE: MySQL v5.7 as it is easy to use and understandable.

### Approach:

The main objective was to understand how they interact with our product. To do this, I analysed data from the database provided. By understanding our users' needs, we can create a product that is tailored to their needs and make sure that it meets all their expectations. Additionally, I wanted to use this project as an opportunity to learn more about user experience design principles so that I can apply them in future projects.

# **Marketing**

### 1. Top 5 oldest users

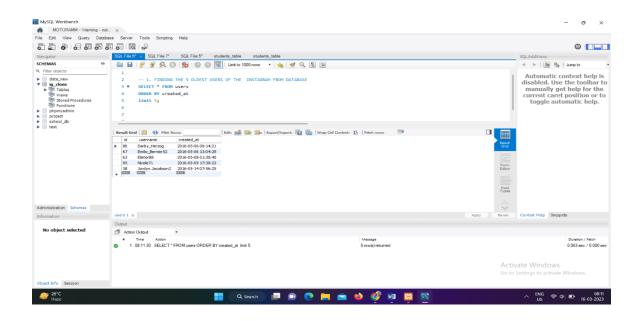
SELECT \*

FROM users

ORDER BY created\_at

#### LIMIT 5;

### **Result:**



# 2. Remind Inactive Users to Start Posting

SELECT users.id,

username,

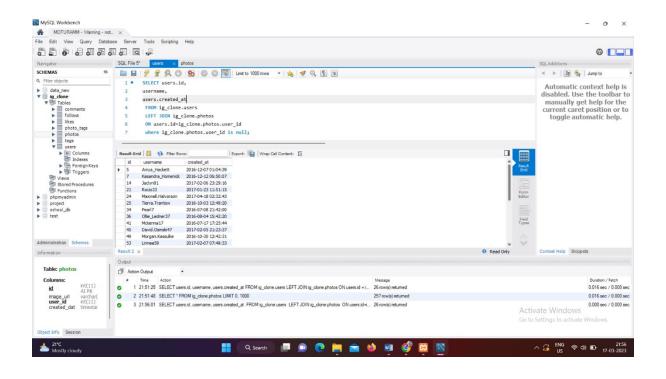
 $users.created\_at$ 

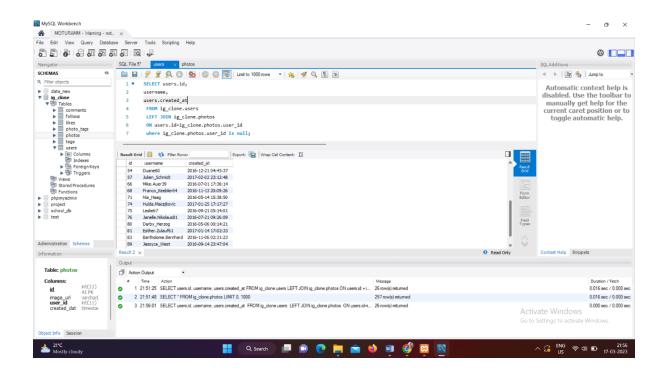
FROM ig\_clone.users

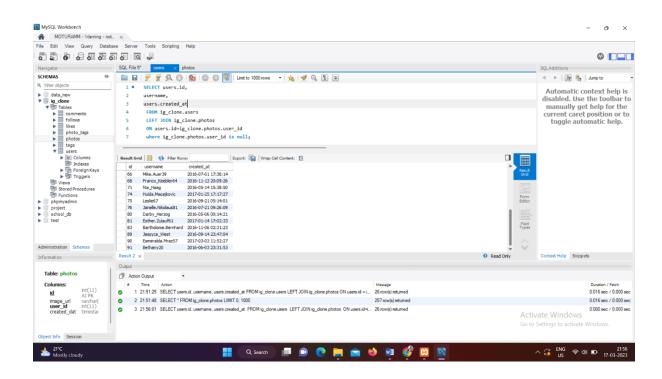
LEFT JOIN ig\_clone.photos

ON users.id=ig\_clone.photos.user\_id

where ig\_clone.photos.user\_id is null;







#### 3 .CONTENT WRITER

 $SELECT*FROM \ \ (SELECT*from\ (sELECT\ photo\_id,count(photo\_id) as\ most\_liked\ from\ ig\_clone.likes$ 

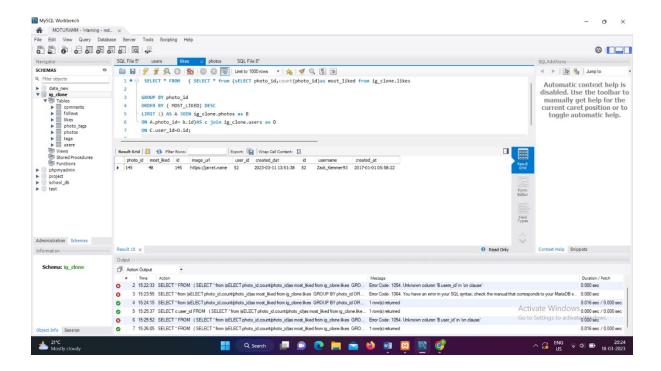
GROUP BY photo\_id

ORDER BY (MOST\_LIKED) DESC

LIMIT 1) AS A JOIN ig\_clone.photos as B

ON A.photo\_id= b.id)AS c join ig\_clone.users as D

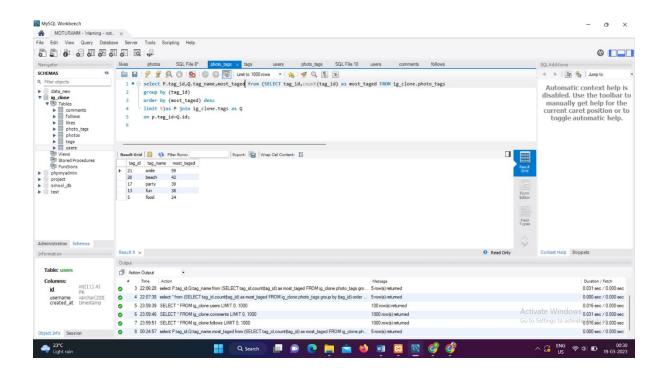
ON C.user\_id=D.id;



# 4. Hashtag Researching

 $select\ P.tag\_id, Q.tag\_name, most\_taged\ from\ (SELECT\ tag\_id, count(tag\_id)\ as\ most\_taged\ FROM\ ig\_clone.photo\_tags$ 

group by (tag\_id)
order by (most\_taged) desc
limit 5)as P join ig\_clone.tags as Q
on p.tag\_id=Q.id;



# 5. AD campaign

#### **SELECT**

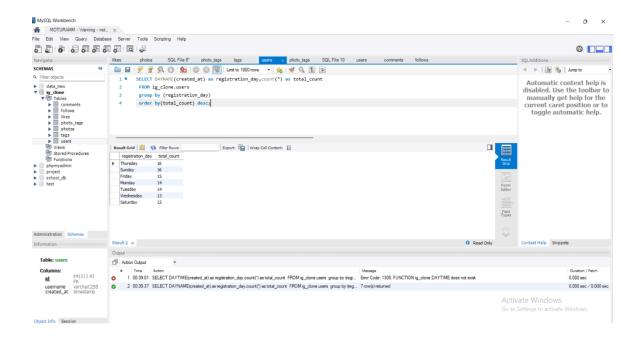
DAYNAME(created\_at) AS day\_of\_the\_week,

COUNT(\*) AS total\_count

FROM ig\_clone.users

GROUP by day\_of\_the\_week

ORDER by total\_count DESC;



# **B) Investor Metrics:**

# 1. User Engagement

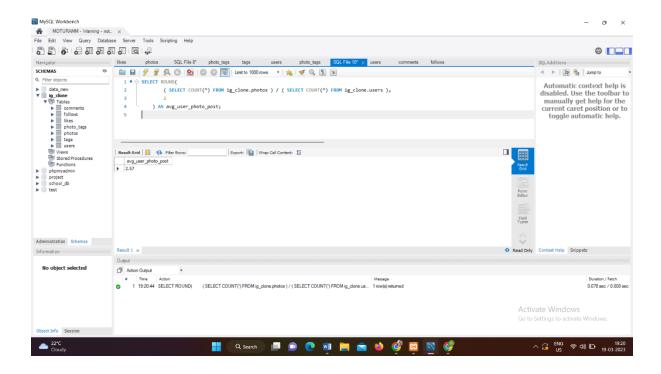
**SELECT** 

ROUND(

( <code>SELECT COUNT(\*) FROM ig\_clone.photos</code> ) / ( <code>SELECT COUNT(\*) FROM ig\_clone.users</code> ),

2

) AS avg\_user\_photo\_post;

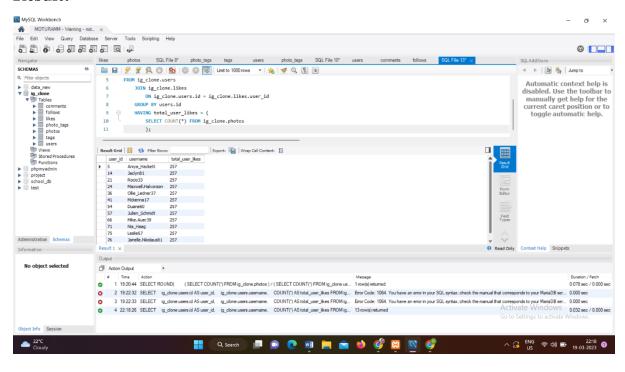


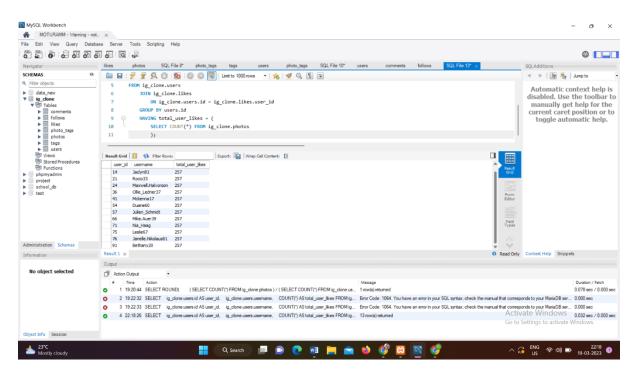
#### 2. Bot Accounts

```
SELECT
```

```
ig_clone.users.id AS user_id,
ig_clone.users.username,
COUNT(*) AS total_user_likes
FROM ig_clone.users

JOIN ig_clone.likes
    ON ig_clone.users.id = ig_clone.likes.user_id
GROUP BY users.id
HAVING total_user_likes = (
    SELECT COUNT(*) FROM ig_clone.photos
);
```





### **Conclusion:**

Through this project, we were able to gain insights into how users think and behave when interacting with a product. We discovered a number of key insights about user behaviour, preferences, and expectations that can be used to inform future product design decisions. In particular, we identified trends in user behaviour that could be used to improve user experience, such as providing helpful feedback loops or streamlining processes for specific tasks. Overall, our user analysis project has provided us with valuable insights that can help us create better products in the future.