# INSTAGRAM USER ANALYTICS

- AJAI ARUMUGAM

# PROJECT DESCRIPTION

- User Analysis is the process of understanding how users interact with your product such as website. Mobile app or any software.
- User Analysis collect data on users to enhance the product for better user experience.
- Here in this project we are going to analyse Instagram user data and provide insights to the management team which could potentially influence the future development of the Instagram app

## PROJECT APPROACH

Here I used SQL to execute queries and answer questions posed by management teams which is

#### A. Marketing Analysis

- 1. Loyal user reward
- 2. Inactive user engagement
- 3. Most liked photo
- 4. Most popular hastags
- 5. Best days to launch AD campaign

#### B. Investor Metrics

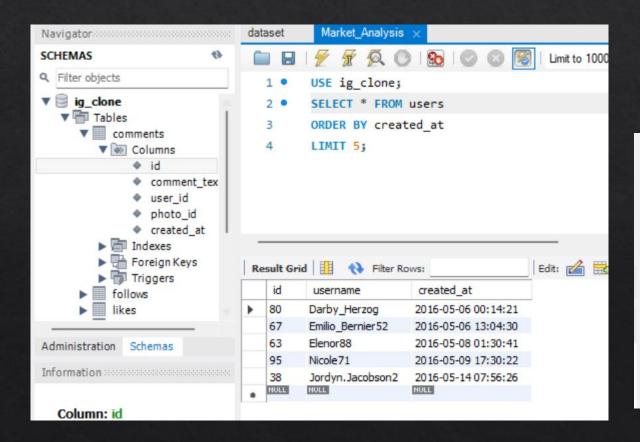
- 1. User engagement
- 2. Identify potential bot & fake accounts

# SOFTWARE USED

MySQL Workbench 8.0 CE

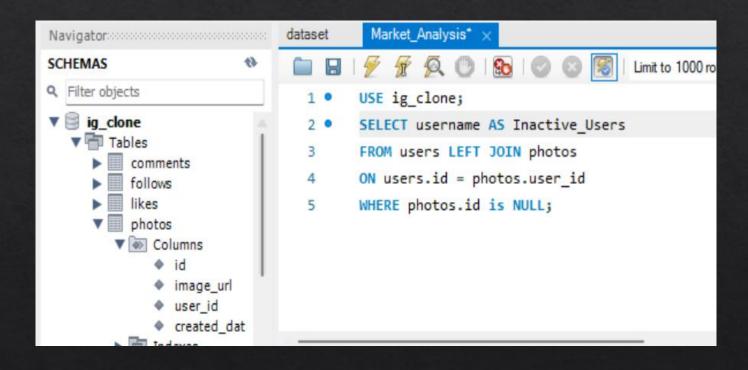
# INSIGHTS A. MARKETING

- 1. Loyalty User Reward –
- Marketing team wants to reward top 5 most loyal users i.e. oldest users.
- From the database here are the oldest users

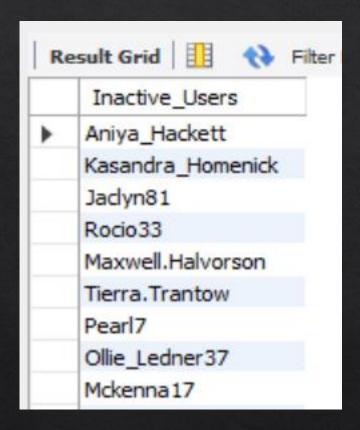


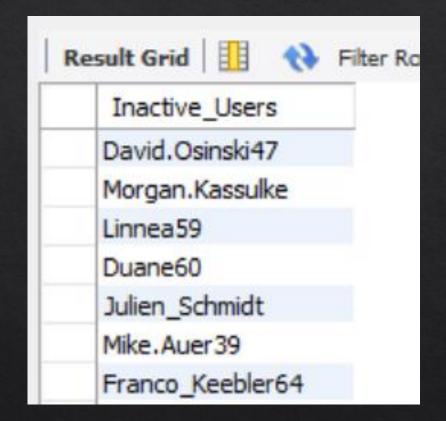
	Res	ult Grid	Filter Rows:			
		id	username	created_at		
Þ		80	Darby_Herzog	2016-05-06 00:14:21		
		67	Emilio_Bernier52	2016-05-06 13:04:30		
		63	Elenor88	2016-05-08 01:30:41		
		95	Nicole71	2016-05-09 17:30:22		
		38	Jordyn.Jacobson2	2016-05-14 07:56:26		
		NULL	NULL	NULL		

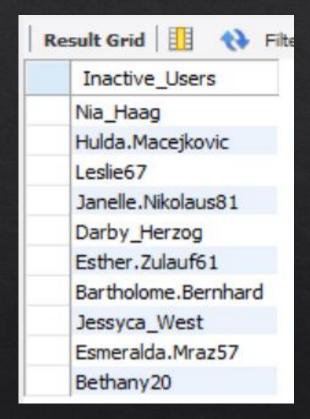
- 2. Inactive user engagement -
- Marketing team wants to encourage inactive users to start posting by sending promotional emails.
- From the database here is the inactive users list



These are the users who have never posted a single photo on Instagram.

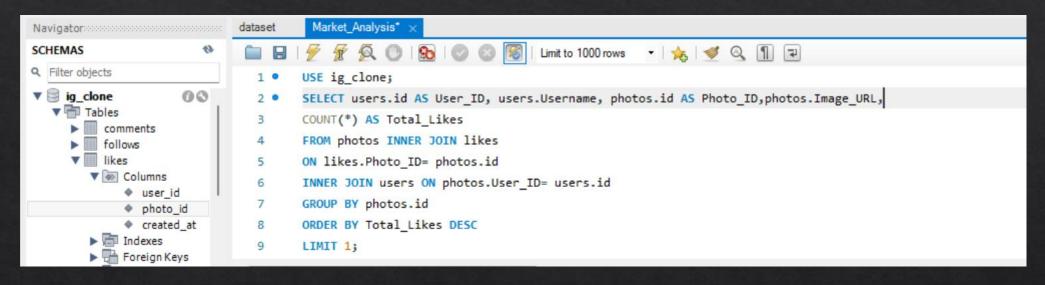


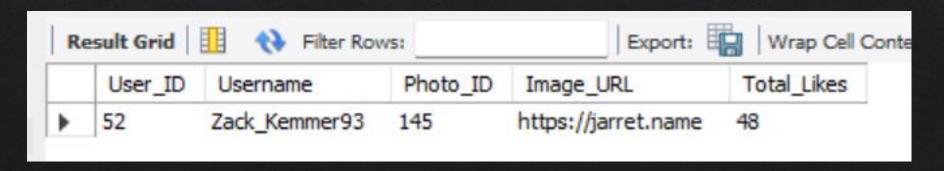




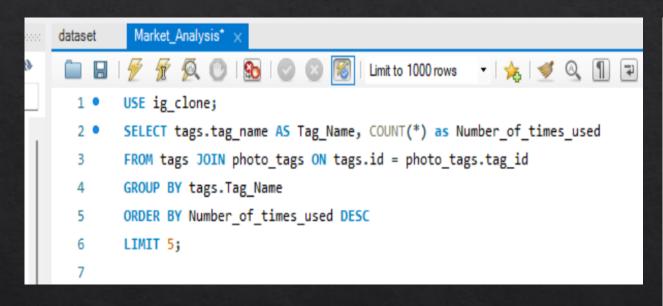
#### 3. Contest winner declaration -

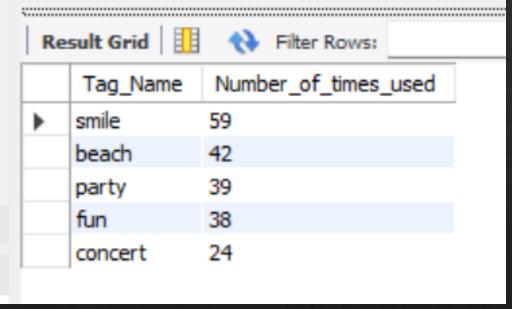
- Team wants to conduct a contest for finding the user with the most likes on a single photo wins.
- Here is the insight





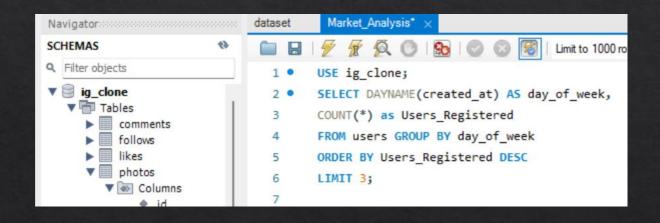
- 4. Hashtag Research -
- Partner brand wants to know the most popular hashtags to use their posts to reach the most people
- Here is the insights from the given database

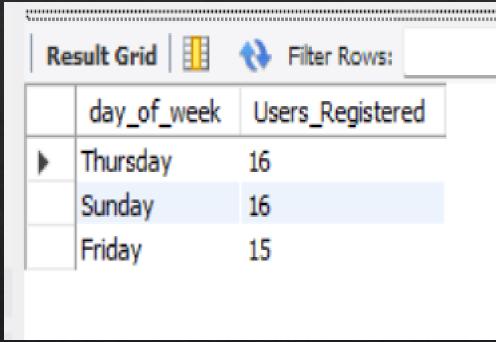




#### 5. Ad Campaign Launch -

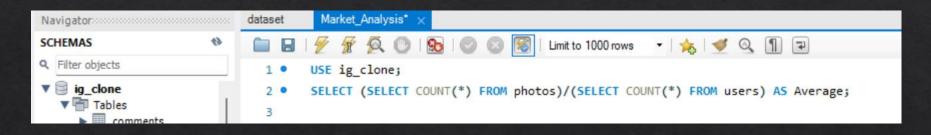
Team wants to know the best day of the week to launch ads. Here is the result of top 3 day of the week where the most people register on Instagram.

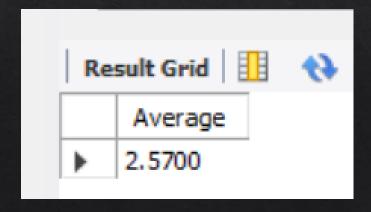




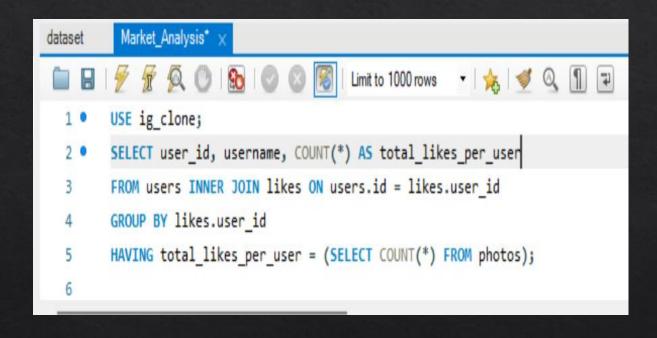
### **B. INVESTOR METRICS**

- 1. User engagement -
- Investors wants to know if the users are still active and posting on Instagram or if they are making fewer posts.
- Here the insight of average number of posts per user on Instagram.





- 2. Bots and Fake accounts -
- Investors wants to know if the platform is crowded with fake and dummy accounts.
- Here is the results of users who have liked every single photo on the site
- Because it is typically not possible for a normal user to do such things.



	user_id	username	total_likes_per_user
<b>&gt;</b>	5	Aniya_Hackett	257
	14	Jadyn81	257
	21	Rocio33	257
	24	Maxwell.Halvorson	257
	36	Ollie_Ledner37	257
	41	Mckenna 17	257
	54	Duane60	257
	57	Julien_Schmidt	257
	66	Mike.Auer39	257
	71	Nia_Haag	257
	75	Leslie67	257
	76	Janelle.Nikolaus81	257
	91	Bethany20	257

# **INSIGHTS GAINED**

- Getting insights is the most important part to make informed decisions
- Insights gained are
  - The most loyal users of Instagram since 2016.
  - Instagram has many users who have never posted a single pic.
  - Most like photo on Instagram.
  - Most used hashtags.
  - Most users registered on Thursday and Sunday in Instagram, making it the best day to launch campaigns.
  - Per week Instagram users posts about 2 to 3 photos.
  - Found the evidence of the presence of bots and fake accounts.

## RESULTS

- Through this project I have gained the understanding of how data analytics process works which is database creation and analysis and the importance of SQL in data analysis.
- We can provide insights through SQL which makes the life easier.

# THANK YOU