Instagram User Analytics

Project Description:

This project is an attempt to provide insights into questions asked by the management team by analysing the data provided by the product team of Instagram. To start with my analysis, I first understood the different metrics provided. I understood marketing and investor metrics. Then, I used the provided data for SQL analysis to find out the top-ranked oldest user, users who have never posted a single photo on Instagram, the most common hashtag, the total number of users, etc.

Approach:

Analysed the objective of every task and looked for the actual data that the team required. Then I imported the data into MySQL Workbench and ran numerous queries to provide insights for business benefits.

N.B.- As I was using MySQL for the first time, I made numerous mistakes. I could not understand the queries sometimes. I took the help of different resources. This was a challenging step. Finally, after Eshan's Session, I understood things more clearly.

Tech Stack Used:

MySQL Workbench 8.0

Result:

Marketing:

1. Rewarding Most Loyal Users:

People who have been using the platform for the longest time.

Task: Finding the 5 oldest users of Instagram from the database provided.

Query	Output				
1 Select id, Username, created_at 2 From ig_clone.users	Query #1 Execution time: 1ms				
	id	Username	created_at		
3 order By created_at	80	Darby_Herzog	2016-05-06 00:14:21		
4 Limit 5;	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		

2. Remind Inactive Users to Start Posting:

By sending them promotional emails to post their 1st photo. Task: Finding the users who have never posted a single photo on Instagram

Query	Output		
<pre>1 Select Username 2 From ig_clone.users u 3 Left Join ig_clone.photos p 4 On u.id = p.user_id 5 Where 6 p.user_id is Null 7 Order By Username</pre>	Aniya_Hackett Bartholome.Bernhard	Jessyca_West Julien_Schmidt	
	Bethany20 Darby Herzog	Kasandra_Homenick Leslie67	
	David.Osinski47	Linnea59	
	Duane60	Maxwell. Halvorson	
	Esmeralda.Mraz57	Mckenna17	
	Esther.Zulauf61	Mike.Auer39	
	Franco_Keebler64	Morgan.Kassulke	
	Hulda.Macejkovic	Nia_Haag	
	Jaclyn81	Ollie_Ledner37	
	Janelle.Nikolaus81	Pearl7	
	Tierra.Trantow	Rocio33	

3. Declaring Contest Winner:

The team started a contest and the user who gets the most likes on a single photo will win the contest now they wish to declare the winner.

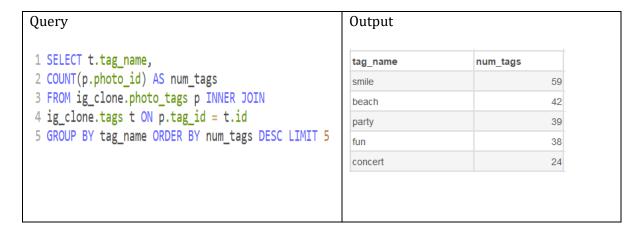
Task: Identifying the winner of the contest and provide their details to the team.



4. Hashtag Researching:

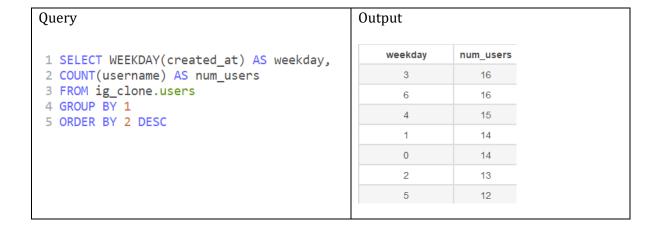
A partner brand wants to know, which hashtags to use in the post to reach the most people on the platform.

Task: Identifying and suggesting the top 5 most commonly used hashtags on the platform



5. Launch AD Campaign:

The team wants to know, which day would be the best day to launch ADs. Task: What day of the week do most users register on? Provide insights on when to schedule an ad campaign



B) Investor Metrics:

1. User Engagement:

Are users still as active and post on Instagram or they are making fewer posts Task: Provide how many times does average user posts on Instagram. Also, provide the total number of photos on Instagram/total number of users.



2. Bots & Fake Accounts:

The investors want to know if the platform is crowded with fake and dummy accounts Task: Provide data on users (bots) who have liked every single photo on the site (since any normal user would not be able to do this).

