Drive Link for the projecthttps://drive.google.com/drive/folders/1u-jSDPNbTsI9YWRUGsomWZpzcYkIv6d

Project by -

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Instagram User Analytics

Project Description

This project will go through some of the essential questions the marketing team has when launching new campaigns and assisting investors in making decisions about future investments by letting them know whether Instagram is still working well or is becoming obsolete, much like Facebook.

Project Approach

In order to answer the questions given by management, SQL was used. Using SQL, we created the database using the raw data provided to us for this project. Once, the database was set up, we performed various operations like selecting, sorting, joining tables, etc. to get the insights we needed.

Tech Stack Used

MySQL Workbench v8.0.32 was used to guery the database.

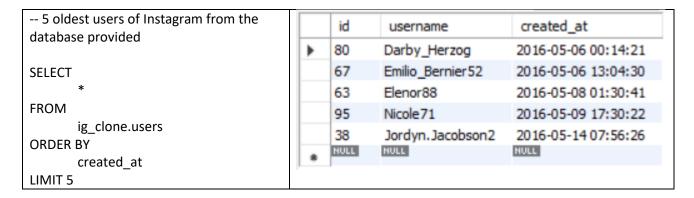
Project Insight

Marketing

The marketing team requests information so they may launch some campaigns, and those insights are given.

1. Rewarding Most Loyal Users: People who have been using the platform for the longest time.

SQL Query:



Result-

Darby_Herzog (80), Emilio_bernier52 (67), Elenor88 (63), Nicole71 (95), Jordyn.Jacobson2 (38), are the 5 oldest users of Instagram.

2. **Remind Inactive Users to Start Posting:** By sending them promotional emails to post their 1st photo.

SQL Query-

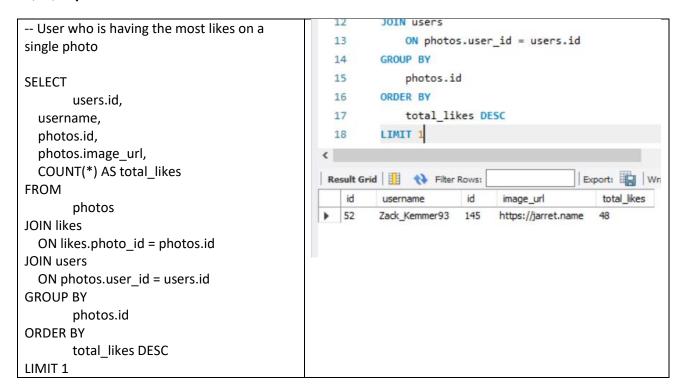
Users who have never posted a single photo on Instagram	5 Aniya_Hackett
CEL FOT	7 Kasandra_Homenick
SELECT u_table.id, username	14 Jaclyn81
FROM	21 Rocio33
ig_clone.users AS u_table	24 Maxwell.Halvorson
LEFT JOIN	25 Tierra.Trantow
ig_clone.photos AS p_table	34 Pearl7
ON u_table.id = p_table.user_id WHERE	36 Ollie Ledner37
p_table.user_id IS null	41 Mckenna17
	45 David.Osinski47
	49 Morgan.Kassulke
	53 Linnea59
	54 Duane60
	57 Julien_Schmidt
	66 Mike.Auer39
	68 Franco_Keebler64
	71 Nia_Haag
	74 Hulda.Macejkovic
	75 Leslie67
	76 Janelle.Nikolaus81
	80 Darby_Herzog
	81 Esther.Zulauf61
	83 Bartholome.Bernhard
	89 Jessyca_West
	90 Esmeralda.Mraz57
	91 Bethany20

Result-

The ids and usernames are provided in the table of the users who have never posted a single photo so that we can send reminder mails to post their $\mathbf{1}^{\text{st}}$ photo.

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 and will be declared winner.

SQL Query-

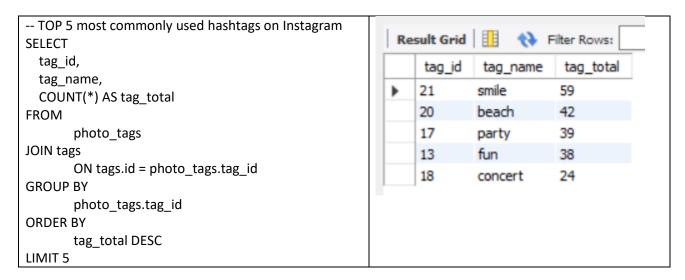


Result-

With 48 likes, user Zack Kemmer93 (52) has received the most likes for his photo with the id=145.

4. **Hashtag Researching:** A partner brand wants to know which hashtags to use in the post to reach the most people on the platform

SQL Query-

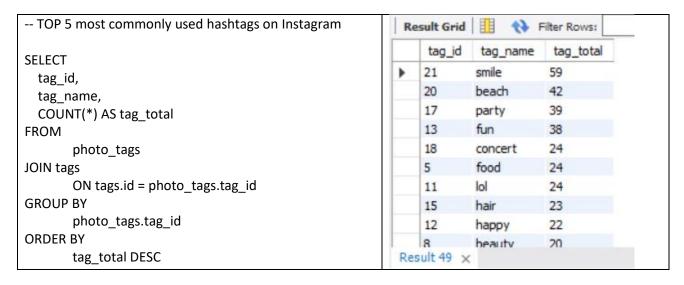


Result- The top 5 commonly used hashtags on Instagram are – **smile, beach, party, fun & concert**.

Note- However, when we don't put any limit in the query then we see that "food, lol" is also used the same number of times as "concert", i.e., 24 times.

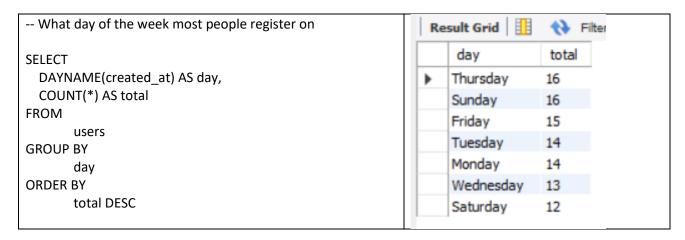
Hence, we can say that the most commonly used hashtags on Instagram used are - smile, beach, party, fun, concert, food & lol.

SQL Query without limit-



5. Launch AD Campaign: The team wants to know which day would be the best day to launch Ads.

SQL Query-



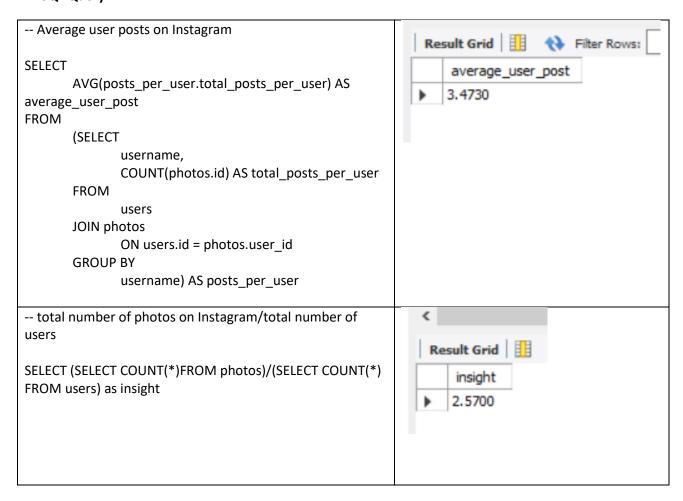
Result- The two days when people are most likely to register are **Thursday** and **Sunday**. The start of an AD campaign can be planned for one of two days to have the best chance of success.

Investor Metrics

Investors want to know if Instagram is doing well and isn't going out of business like Facebook. They want to evaluate the app on the following criteria, and answers to their questions are provided.

1. **User Engagement:** Are user still active and post on Instagram or they are making fewer posts.

SQL Query-



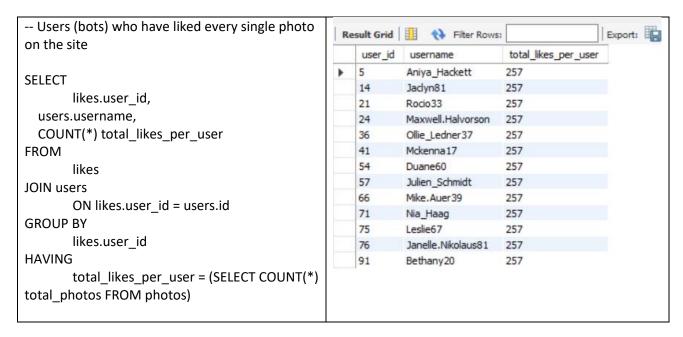
Results-

The average user posts on Instagram is 3.4730

total number of photos on Instagram/total number of users = 2.57

2. **Bots & Fake Accounts:** The investors want to know if the platform is crowded with fake and dummy accounts.

SQL Query-



Results- Since it would be extremely difficult for a user to like each and every picture on Instagram, we are classifying them as bots. Running the above-mentioned query has returned a list of all such users (bots).

Project Conclusion

While analyzing the dataset provided, several meaningful insights were discovered that could not have been discovered by manually searching the dataset for insights. These insights can help investors and marketing teams make better judgments in the future, saving them a good amount of time and money.

We could also leverage the MySQL tool and got a little more experienced in using the tool and also injecting different types of queries to look for insights.