

Instagram User Analytics

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Overview

Instagram user analytics is used to identify how the user engage with the concern digital project and based on the needs of the digital, product and marketing team we perform analysis on the dataset abstracted through the interaction of the user on the product

Approach

- The database is uploaded on the MySQL workbench to make it accessible and it is much ebay to use and handle data
- Through the Data Modeling and by the process of Reverse Engineering create an EER model of your instagram database it help you to understand how all the tables are connected and primary key with respect to the tables
- As as per the statement need join the two tables, the EER model helps you to understand through the lines and network which is the foreign key to the table you need to join and by click in on the table you can also understand each and every element of a column can now join to tables then by the sql you can derived the necessary results

Tech-Stack Used

Hardware

My SQL Workbench

Software

MySQL

Instagram database:

https://docs.google.com/document/d/1-WhNRX1iYJIz7e5I28DMPWgsPklpE w6/edit

Tasks

Based on the database provided, the table in the instagram database are

Users

Comment

Photos

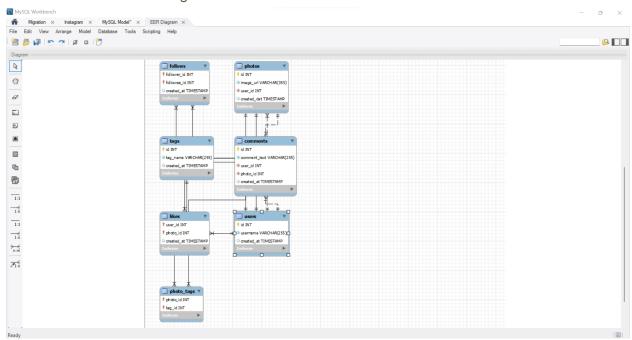
Follows

Tag

Likes

Photo_tags

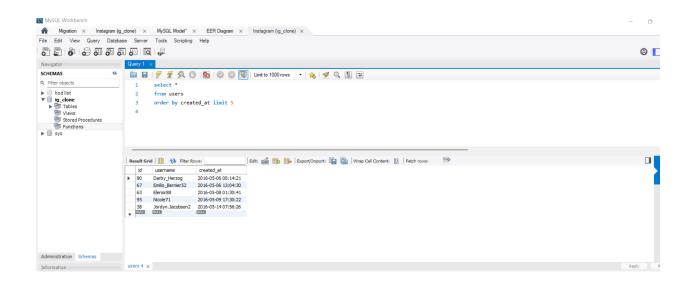
On the basis of the following EER Model



MARKETING

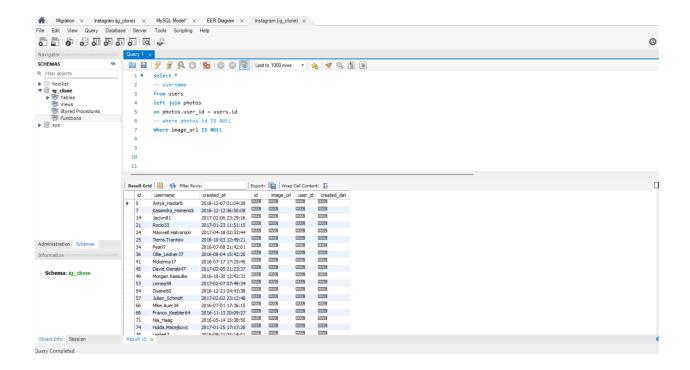
1. Rewarding Most Loyal Users: People who have been using the platform for the longest time.

Your Task: Find the 5 oldest users of the Instagram from the database provided

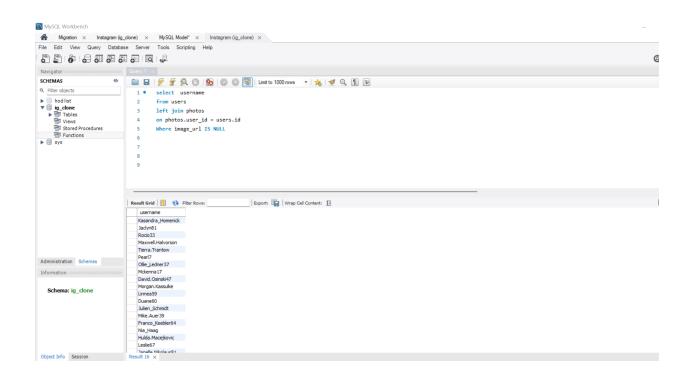


2.Remind Inactive Users to Start Posting: By sending them promotional emails to post their 1st photo.

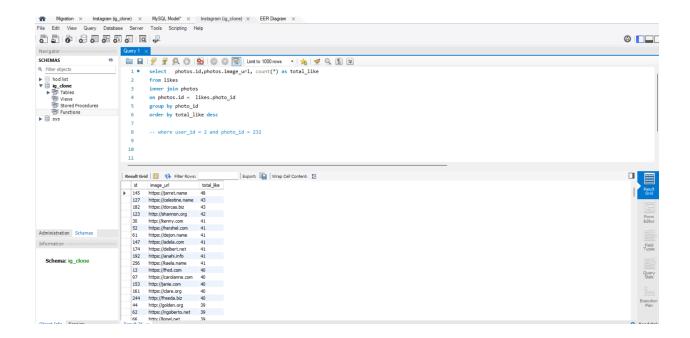
Your Task: Find the users who have never posted a single photo on Instagram



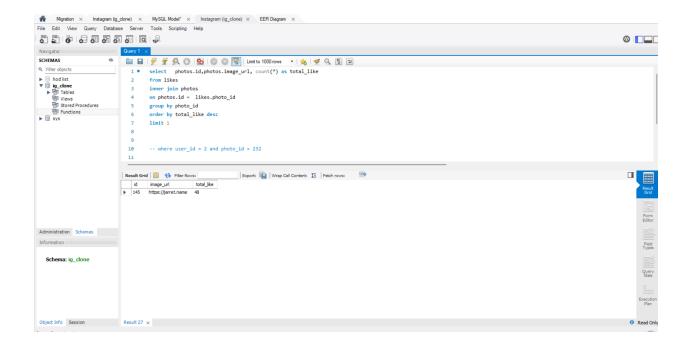
Insight: By Using the "where image_url IS NULL" We can filter out all the users that have never posted a single photo on Instagram



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

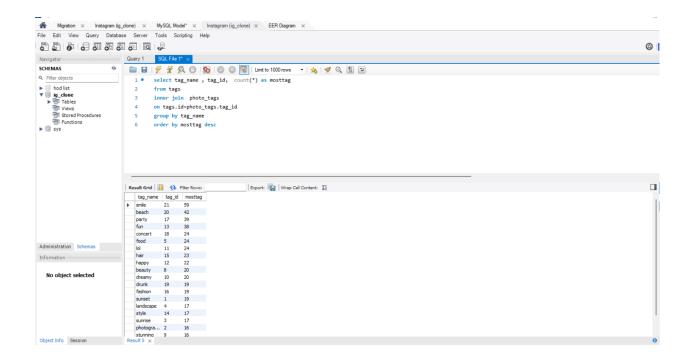


Insight: Inner join will remove all the users that do not have any photos and by using "limit 1" we can take the top most name with most likes as the data is sorted in descending order

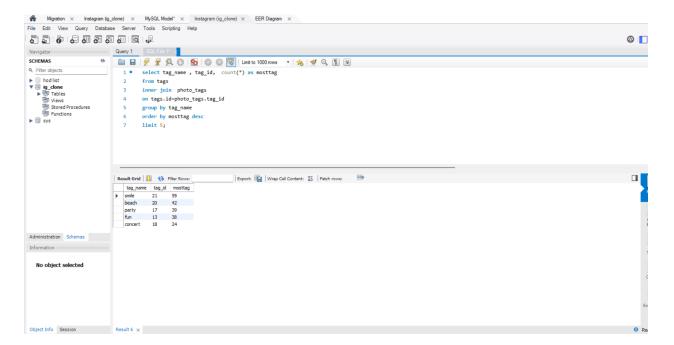


4. Hashtag Researching: A partner brand wants to know which hashtags to use in the post to reach the most people on the platform.

Your Task: Identify and suggest the top 5 most commonly used hashtags on the platform

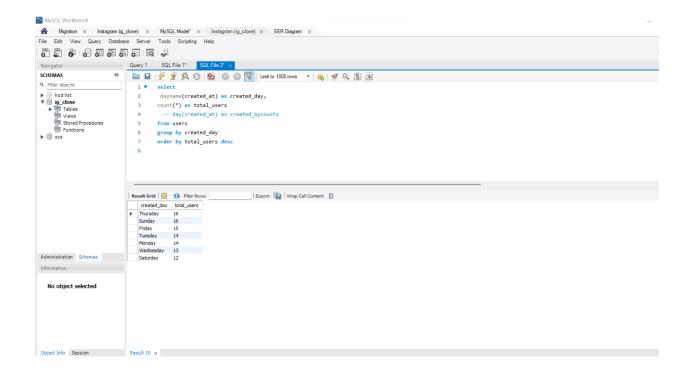


Insight: There is the list of all the hashtags that are used and on how many times they are are used in descending order, by putting of "limit 5" we can filter out the top 5 hashtags we need to use to analysis

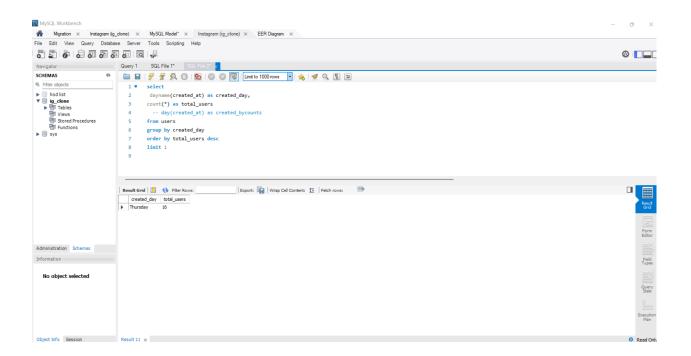


5. Launch AD Campaign: The team wants to know, which day would be the best day to launch ADs.

Your Task: What day of the week do most users register on? Provide insights on when to schedule an ad campaign



Insight: By putting a limit of 1 to get what day of the week most users registered on, since the values of Thursday and Sunday are equal based on the alphabetical Arrangement of the Words, Thursday gets the top rank. Therefore to finalize the day the Analyst team can further analyze which day to choose based on considering other factors.

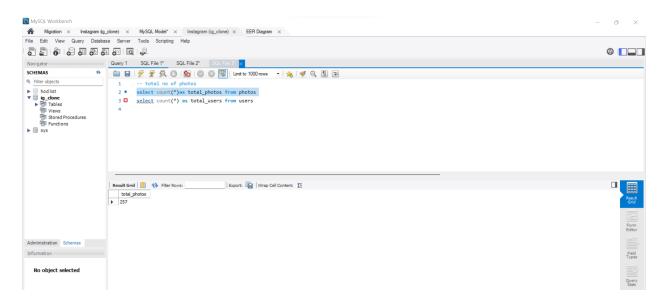


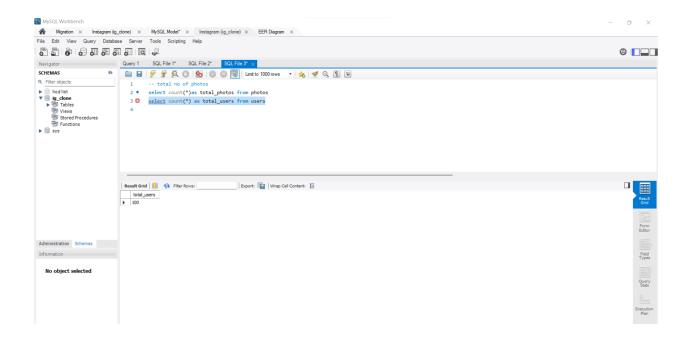
INVESTOR METRICS

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

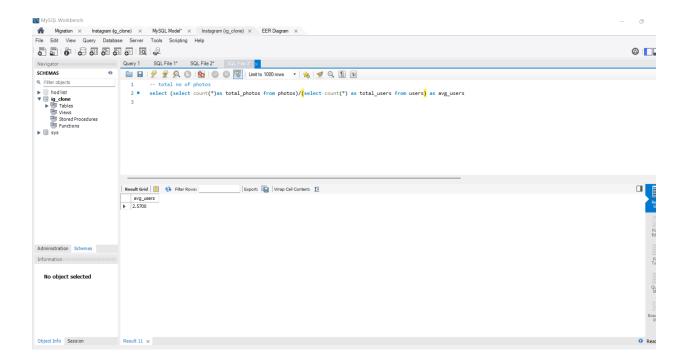
Your Task: Provide how many times does average user posts on Instagram. Also, provide the total number of photos on Instagram/total number of users

First total no of photos



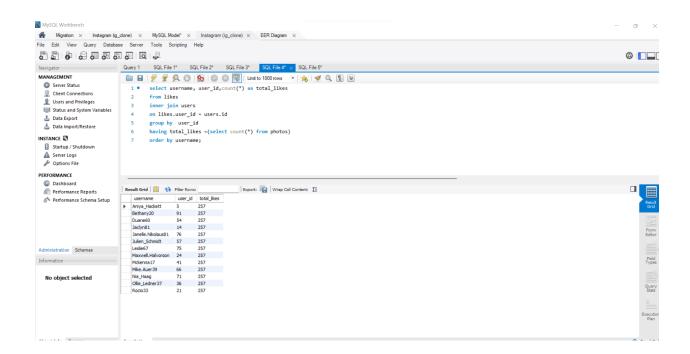


The average users post on Instagram



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

Your 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).



Insight: In this code the "WHERE" clause cannot be used since where should be defined before group by and if we try to define it before group by the code would not be able to define total likes therefore we use "HAVING"

Results

This Project helped me gain better understanding of Joins
Sub-query
Count Clause

Having Clause Mysql workbench

And a glimpse of working with a database how insightful a clean data can be, its usage in development product and marketing sectors of a company .