

Instagram User Analytics

SQL Fundamentals

Description:

User analytics is a way of analyzing user data in order to give companies a clear view of user controls. Typically a business intelligence software is used to combine customer behaviour data from web and mobile applications to create a holistic view of the user and the user experience.

I aided in the attempt to get spawn business insights for the marketing, product and development team in this assignment concerning Instagram User Analysis by sending the data to the team by using SQL (structured query language). Meanwhile I used various sql queries to gather the needed data. Through the data provided, I was able to ascertain the most oldest users, whether the user had posted any pictures or not, the most popular hashtag, the toal number of users and much more.

Approach:

I fistly evaluated the objectives and considered the actual data that the team needed and after that I imported the data into www.DB Fiddle.com and ran numerous queries to acknowledge the data and track down the insights that the team desired for maximum business growth.

Tech Stack Used:

Db Fiddle (SQL Database Playground) – My SQL v 8.0

Insights:

I ran various sql commands to acquire insights and understanding of how to handle real time sql queries through this assignment. I extracted several insights from the data furnished by the Instagram users, including the most engaging users, users who never posted a photo, contest winner, the most commonly used hashtags, the day of week on which most users registered, how many times the average users post, and the bot & fake accounts.

Results:

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

TASK: Find the 5 oldest users of Instagram from the database provided.

Query



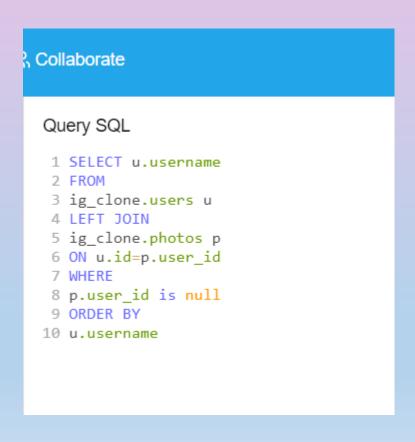
Output

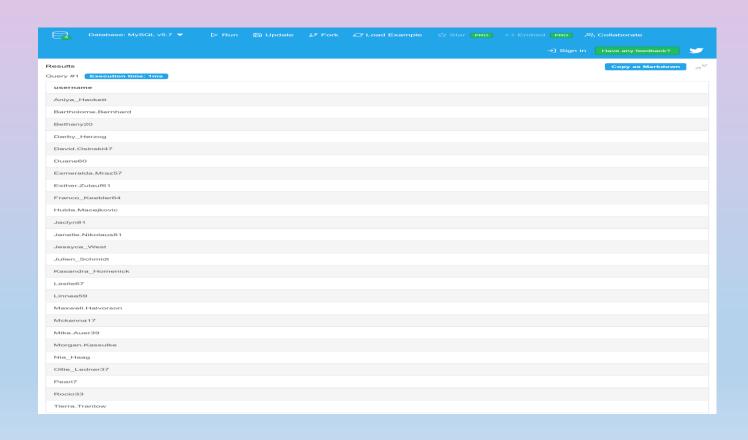
Database: MySQL v5.7 ▼ D Run 🖺 Update 🎖 Fork 🐉 Load Example 🌣 Star 🚾	⇔ Embed PRO
Results	Copy as Markdown
Query #1 Execution time: 1ms	
username	created_at
Darby_Herzog	2016-05-06 00:14-21
Emilio_Bernier52	2016-05-06 13:04:30
Elenor88	2016-05-08 01:30:41
Nicole71	2016-05-09 17:30:22
Jordyn.Jacobson2	2016-05-14 07:56:26

2) <u>Remind Inactive Users to Start Posting</u>: By sending them promotional emails to post their first photo.

TASK: Find the users who have never posted a single photo on Instagram.

Query Output



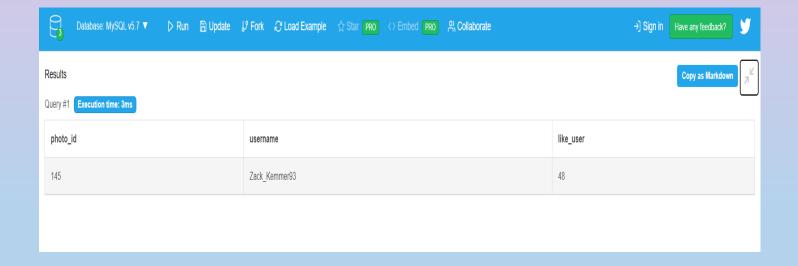


3) Declaring Contest Winner: The team started a contest and the user who gets the most likes on a single photo will win the contest now they wish to declare the winner.

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

Query Output



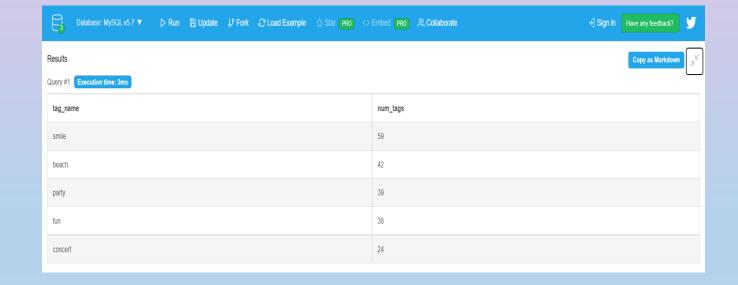


4) <u>Hashtag Researching:</u> A partner brand wants to know, which hashtags to use in the post to reach the most people on the platform.

TASK:Identify and suggest the top five commonly used hashtags on the platform.

Query Output



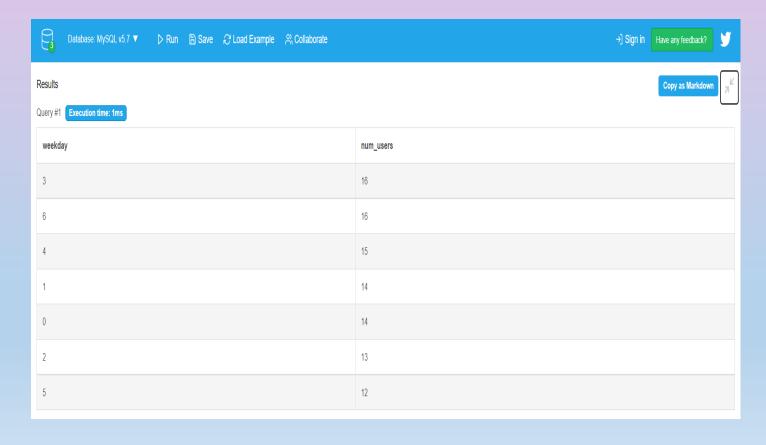


5) Launch Ad Campagin: The team wants to know, which day would be the best day to launch ads.

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

QUERY OUTPUT





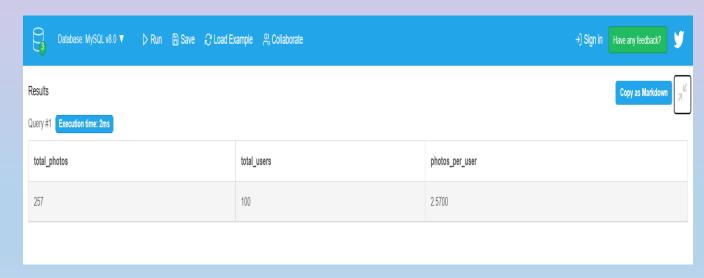
B) INVESTMENT METRICS:

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

<u>TASK:</u> Provide how many times does average user posts on Instagram. Also, provide the total number of photos on instagram/total no of photos.

QUERY OUTPUT





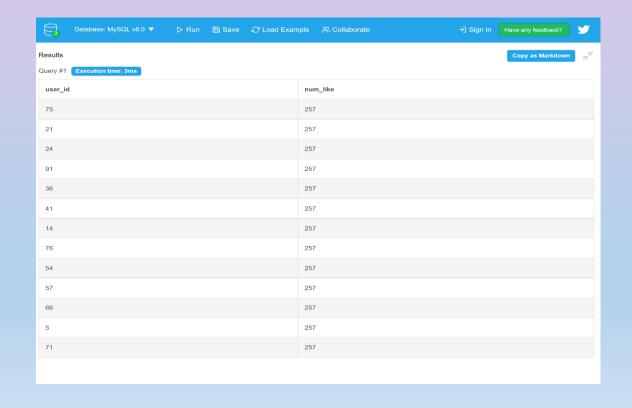
2) **Bots & Fake Accounts:** The investors want to know if the platform is crowded with fake and dummy accounts.

<u>TASK:</u> Provide data on users (bot) who have liked every single photo on the site (since normal user would not to be able to do this).

QUERY







Thank you



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