INSTAGRAM USERANALYTICS

A SQL PROJECT

BY

SIDDHESH PANCHAL



INTRODUCTION

ABOUT THE DATA

This project is about using SQL (Structured Query Language) to perform Instagram user data analysis. The Instagram data was gotten from Trainity. It is a fictitious (imaginary) user data. This data consists of 7 tables; users, photos, follows, likes, tags, photo_tags, and comments tables.

TOOL USED

I made use of MySQL Workbench. As it is easy to use and easy to understand.



TABLES

Users

	Field	Type	Null	Key
•	id	int	NO	PRI
	username	varchar(255)	NO	
	created_at	timestamp	YES	

Follows

	eld	Type	Null	Key
▶ fol	ower_id	int	NO	PRI
fol	owee_id	int	NO	PRI
cre	ated_at	timestamp	YES	

Photos

	Field	Туре	Null	Key
>	id	int	NO	PRI
	image_url	varchar(355)	NO	
	user_id	int	NO	MUL
	created_dat	timestamp	YES	

Likes

	Field	Туре	Null	Key
•	user_id	int	NO	PRI
	photo_id	int	NO	PRI
	created_at	timestamp	YES	

Tags

	Field	Туре	Null	Key
)	id	int	NO	PRI
	tag_name	varchar(255)	NO	UNI
	created_at	timestamp	YES	

Comments

_				
	Field	Type	Null	Key
•	id	int	NO	PRI
	comment_text	varchar(255)	NO	
	user_id	int	NO	MUL
	photo_id	int	NO	MUL
	created_at	timestamp	YES	

Photo_tags

	Field	Type	Null	Key
•	photo_id	int	NO	PRI
	tag_id	int	NO	PRI

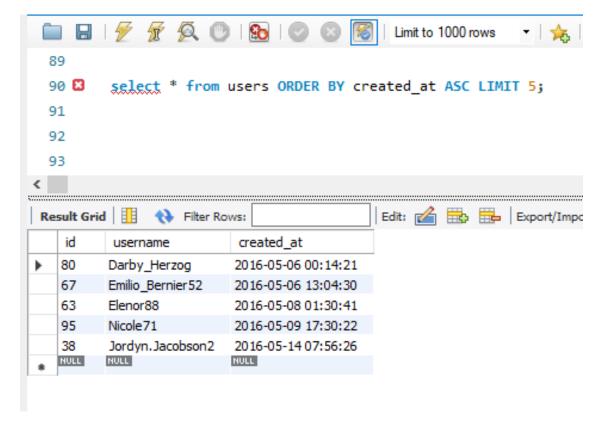


APPROACH

- 1. Find the 5 oldest users of the Instagram from the database provided
- 2. Find the users who have never posted a single photo on Instagram
- 3. Identify which user's photo has received maximum number of likes.
- 4. Identify and suggest the top 5 most commonly used hashtags on the platform
- 5. What day of the week do most users register on?
- 6. Provide how many times does average user posts on Instagram. Also, provide the total number of photos on Instagram/total number of users
- 7. 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).

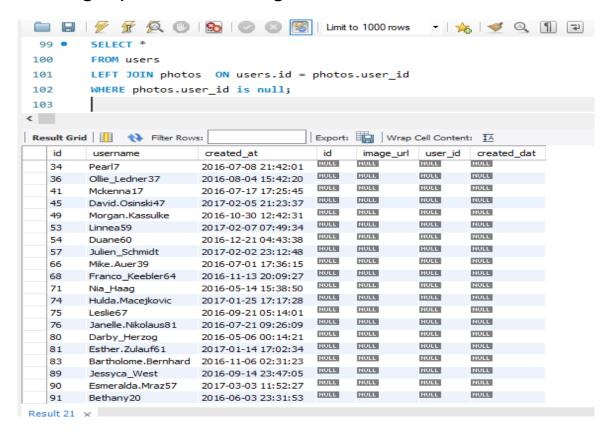


1. Find the 5 oldest users of the Instagram from the database provided



Out of the 100 users who have been registered on Instagram there are the 5 oldest users of Instagram.

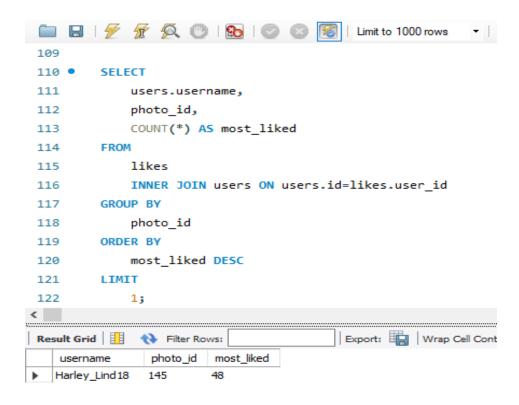
2. Find the users who have never posted a single photo on Instagram



Out of the 100 users who have been registered on Instagram there are the users who have not even posted a single photo.

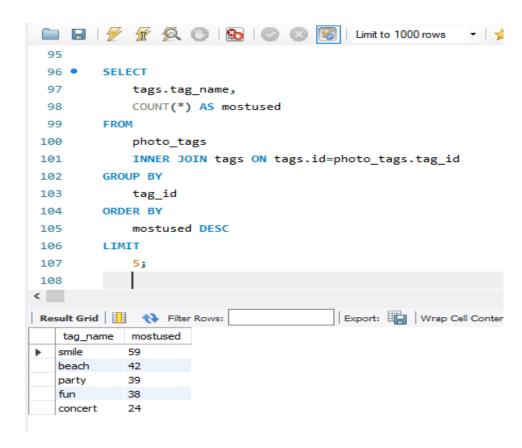


3.Identify which user's photo has received maximum number of likes.



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. This user is the winner of the contest

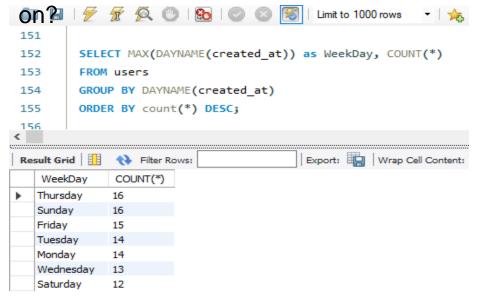
4.Identify and suggest the top 5 most commonly used hashtags on the platform



Out of all the hashtags used on Instagram these are the top 5 hashtags which are commonly used.

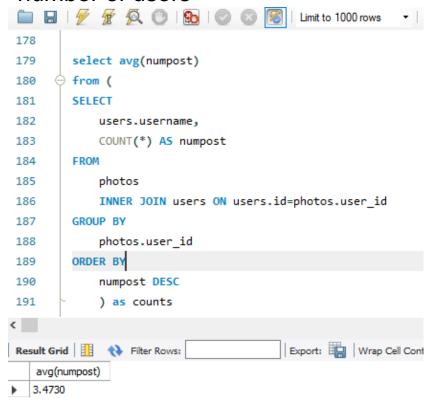


5. The team wants to know, which day would be the best day to launch Ads. What day of the week do most users register



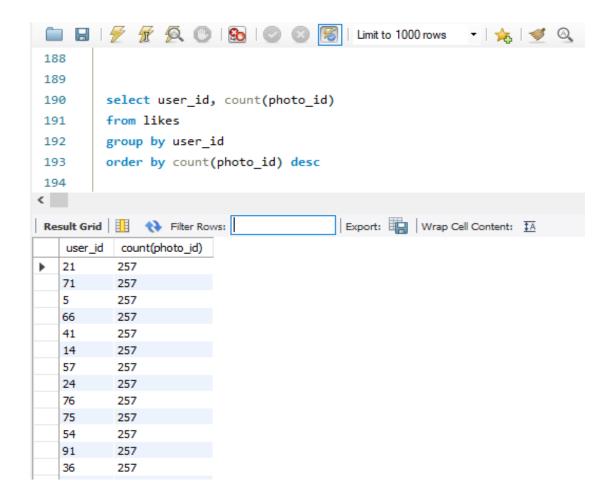
Among all the days Thursday is the day when most users register on so Thursday is the best day to launch ads.

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



total number of photos on Instagram/total number of users=257/100. Therefore on an average 1 user post around 3 photos.

8. 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).



There are total 257 post till now on Instagram and as we can see these are the user id of users who have liked every single photo on Instagram which is practically not possible. Therefore they are bots.

CONCLUSION

- By doing this project, I made use of group by clause.
- I made use of inner join all through because I was focusing majorly on the user table.
- Understanding the entire data took a lot of time as this was my first project.
- SQL might seem weird for starters, but it is really a straight-forward language if we understand the problem or question we are trying to answer.

