Instagram User Analytics

Description

- Instagram user analysis is simple and small project to obtain information from database that is provided. In this work, user has to write SQL query to get data from this database.
- Data that has been collected by this process can be used by the teams across the business to launch new marketing campaigns, decide on app features, track the success of the app by measuring user engagement and improve the experience altogether with business growth.

Approach

- The data set is observed and studied to understand the different categories and parameters of the data provided.
- This data set is executed to draw useful insights on the business proceedings.

Tech-Stack Used

- MySQL workbench is used to run all the queries in this project.
- This software is very handy to manage the dataset and draw useful insights.

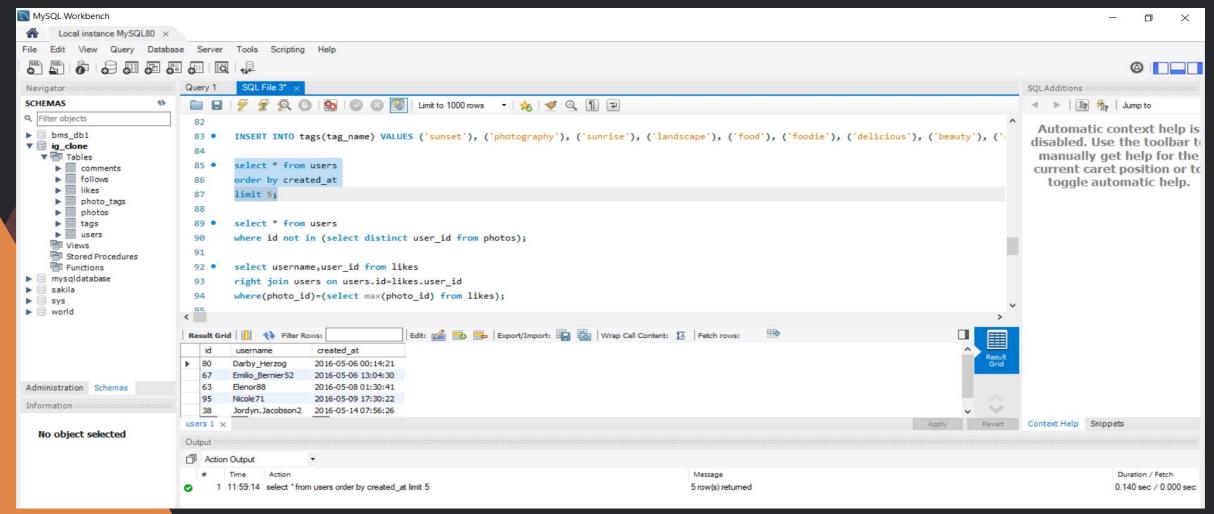
Insights

- Learnt about the use of Order by, Group by, In, Not in functions.
- Use of different joins such as inner join, left join, right join ect and when to use them.

Rewarding Most Loyal Users

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

SQL : select * from users order by created_at limit 5;

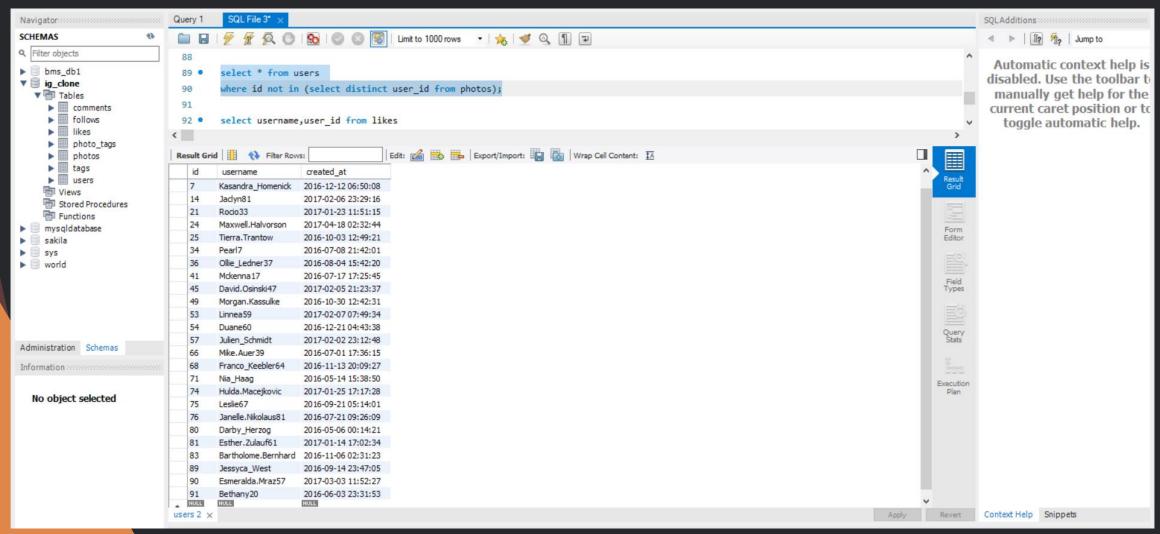


Remind Inactive Users to Start Posting

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

select * from users

where id not in (select distinct user_id from photos);



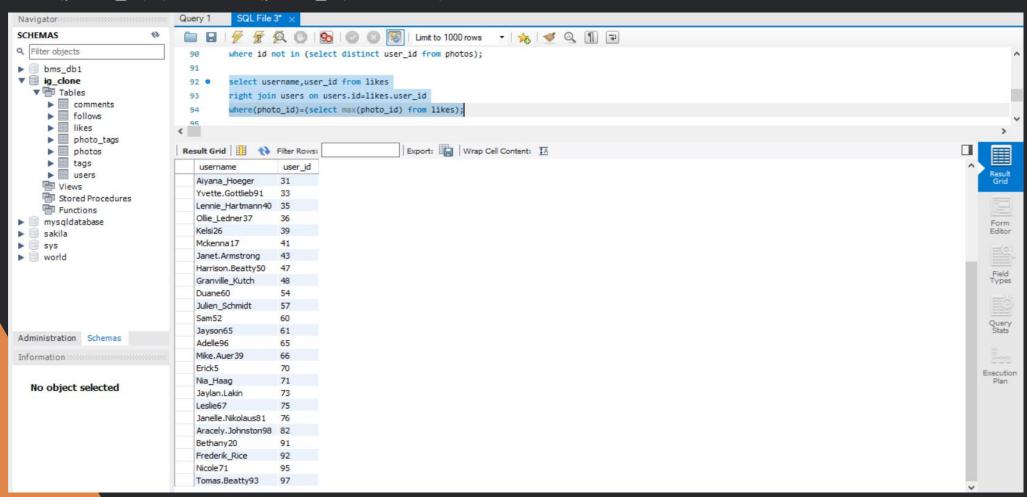
Declaring Contest Winner

Identify the winner of the contest and provide their details to the team

select username, user_id from likes

right join users on users.id=likes.user_id

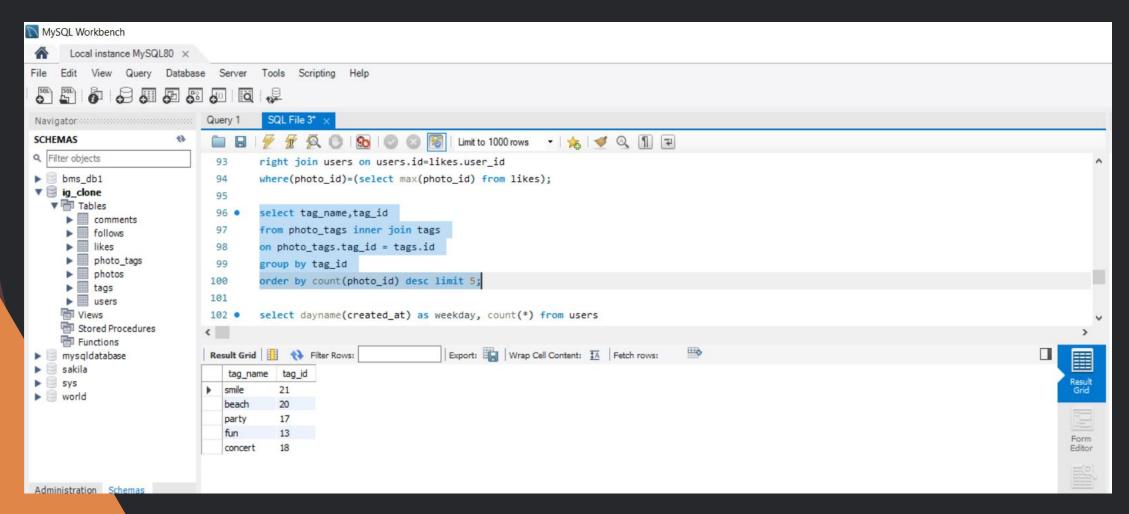
where(photo_id)=(select max(photo_id) from likes);



Hashtag Researching

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

select tag_name,tag_id from photo_tags inner join tags on photo_tags.tag_id = tags.id
group by tag_id order by count(photo_id) desc limit 5;



Launch AD Campaign

order by count(*) desc;

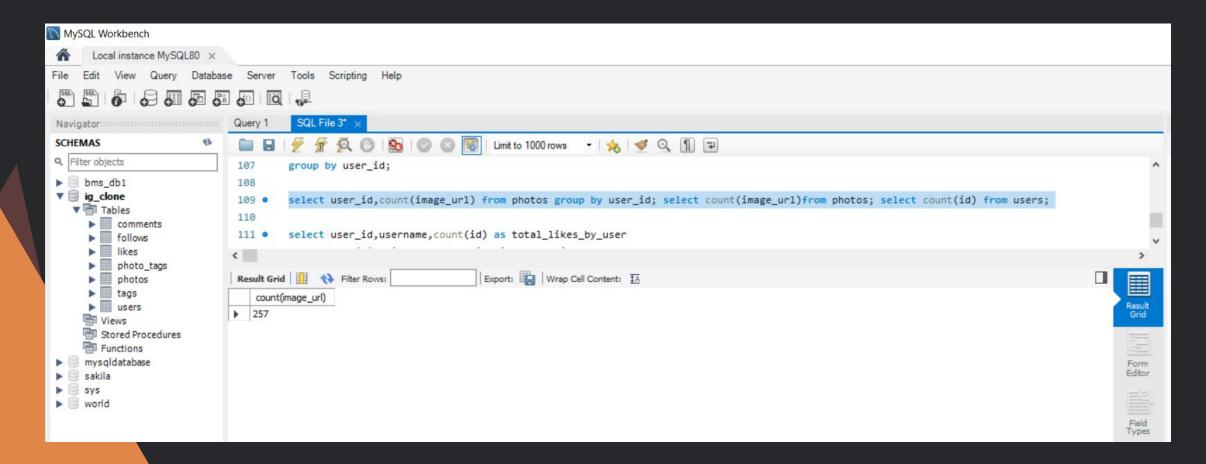
What day of the week do most users register on? Provide insights on when to schedule an ad campaign select dayname(created_at) as weekday, count(*) from users group by dayname(created_at)

MySQL Workbench Local instance MySQL80 × Database Server Tools Scripting Help Query 1 Navigator SCHEMAS Limit to 1000 rows ▼ | 🏂 | 🥩 🔍 👖 📦 Q Filter objects 97 from photo_tags inner join tags bms_db1 on photo_tags.tag_id = tags.id ▼ 🗐 ig_clone group by tag id 100 order by count(photo_id) desc limit 5; 101 102 • select dayname(created_at) as weekday, count(*) from users 103 group by dayname(created at) photos order by count(*) desc; 104 105 select distinct user_id,count(id) as pc 106 • Stored Procedures Functions Result Grid Filter Rows: Export: Wrap Cell Content: TA mysqldatabase weekday count(*) SYS Thursday 16 ▶ ■ world 16 Sunday Friday 14 Tuesday Monday 14 13 Wednesday Saturday Administration Schemas

User Engagement

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

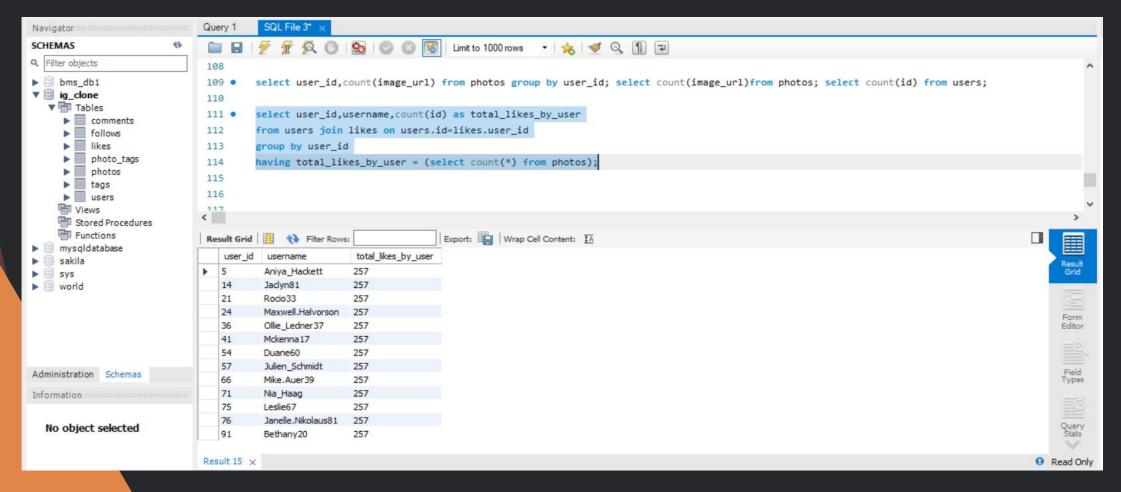
select user_id,count(image_url) from photos group by user_id; select count(image_url)from photos; select count(id) from users;



Bots & Fake Accounts

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)

select user_id,username,count(id) as total_likes_by_user from users join likes on users.id=likes.user_id group by user_id having total_likes_by_user = (select count(*) from photos);



Result

Understood Joins and the differents functions present in SQL and how data can be used to draw meaningful insights.

Thank You