INSTAGRAM USER ANALYTICS

DESCRIPTION: Analysing the dataset so that we can get valuable information about certain trends or important insights from the dataset. The dataset is about Instagram Users, with tables of users, photos, comments, likes, etc. These tables can be joined to get some insights. Some important information/insights are shown by the below queries.

APPROACH: -

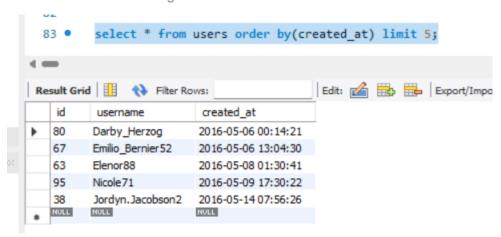
Analysis done on the following parts:-

Part (1). Marketing:- 1. Rewarding Most Loyal Users 2. Remind Inactive Users to Start Posting 3. Declaring the contest winners 4. Hashtag Researching 5. Launch AD Campaign

Part (2). Investor Metrics:- 1. User Engagement 2. Bots and Fake Accounts

TECH STACK: MYSQL USED

5 oldest users of the Instagram



ABOVE WE GOT 5 OLDEST USERS OF INSTAGRAM FROM THE DB.

the users who have never posted a single photo on Instagram

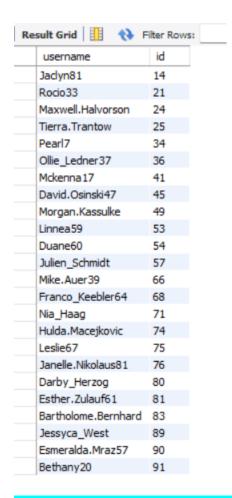
select username, users.id

from users left join photos

on users.id=photos.user_id

where photos.id IS NULL

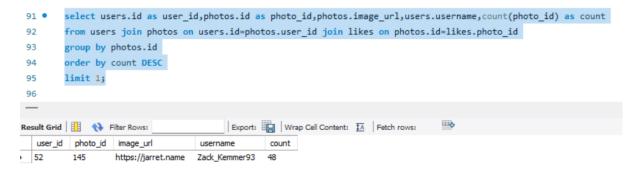
order by users.id;



WE USED LEFT JOIN TO GET NULL RECORDS FROM THE PHOTOS TABLE WHICH REPRESENTS NO PHOTO WAS POSTED BY THAT PARTICULAR USER.

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.



WE JOINED 3 TABLES I.E. USERS, PHOTOS, AND LIKES, AND THEN GROUPED THEM BASED ON PHOTO ID AND THEN ORDERED THEM BY COUNT TO GET THE PHOTO ID WITH THE MOST LIKES.

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.

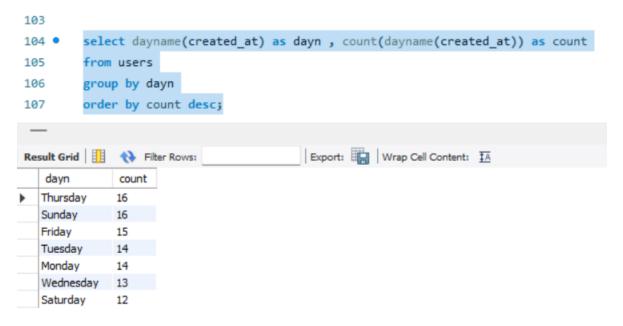
select tags.tag name, count(tags.tag name) as total

from tags join photo tags

```
on tags.id=photo_tags.tag_id
group by tags.tag_name
order by total desc
limit 5;
97 •
        select tags.tag_name,count(tags.tag_name) as total
98
        from tags join photo_tags
        on tags.id=photo_tags.tag_id
99
        group by tags.tag_name
100
        order by total desc
101
        limit 5;
102
103
                                        Export: Wrap Cell Conten
total
  tag_name
  smile
            59
            42
  beach
  party
            39
  fun
            38
  concert
            24
```

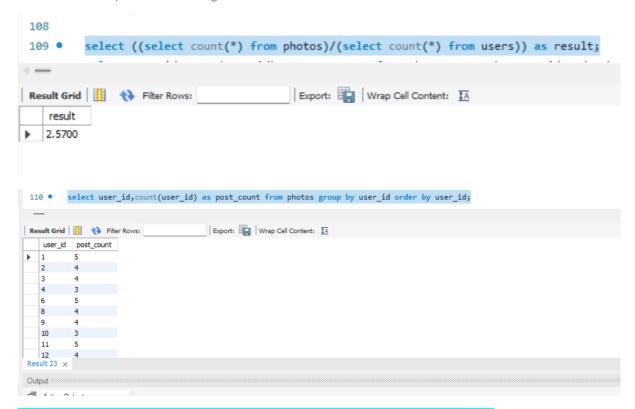
WE GROUP TAGS BY TAGNAME AND SORT THEM BASED ON THEIR COUNTS TO GET THE TOP 5 MOST COMMONLY USED HASHTAGS.

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



WE GROUP THEM BY DAYNAMES AND THEN SORTED THEM BY THEIR COUNT. WE GET THURSDAY AND SUNDAY AS DAYS HAVING MAXIMUM COUNT.

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



ABOVE COUNTS OF PHOTOS AND USERS ARE DIVIDED TO GET DESIRED OUTPUT.

THEN GROUPING BY USER ID WE GET COUNT OF USER POSTS.

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).

```
select user_id,username,count(*) as total_likes
112 •
113
         from users join likes on users.id=likes.user_id
114
         group by users.id
         having total_likes=(select count(*) from photos);
115
116
117
                                          Export: Wrap Cell Conte
user_id
                           total_likes
           username
          Aniya_Hackett
                          257
  14
          Jadyn81
                          257
          Rocio33
                          257
  24
                          257
          Maxwell.Halvorson
   36
          Ollie Ledner37
                          257
   41
          Mckenna 17
                          257
  54
          Duane60
                          257
          Julien_Schmidt
                          257
  57
  66
          Mike.Auer39
                          257
                          257
  71
          Nia_Haag
  75
          Leslie67
                          257
          Janelle.Nikolaus81
                          257
  76
  91
          Bethany20
                          257
```

ABOVE WE JOIN USERS AND LIKES TABLES AND THEN GROUP BY USER ID, CTHE OUNT OF USER ID GIVES THE TOTAL NO. OF LIKES DONE BY THAT USER. IF THIS COUNT IS THE SAME AS THE TOTAL COUNT OF ALL PHOTOS I.E. USER LIKED ALL PHOTOS THEN THE USER IS A BOT.