- 1) PROJECT DESCRIPTION: This project involves analyzing user analytics and engagement to give beneficial insights for business growth.
- **2) APPROACH:** The project was executed using SQL and MySQL workbench. Insights were derived from the data using queries.
- **3) TECH-STACK USED:** My SQL Workbench 8.0 CE was used in analyzing this data. I chose to use it because it has a simple interface which makes it easy to use and manage.
- 4) INSIGHTS:



38 Jordyn.Jacobson2 2016-05-14 07:56:26

67 Emilio_Bernier52 2016-05-06 13:04:30

Nicole71 2016-05-09 17:30:22

The Marketing Team's winners for the Loyal User Rewards are:

created_at

2016-05-06 00:14:21

2016-05-08 01:30:41

- 1) Darby_Herzog
- 2) Emilio_Bernier52

username

Darby_Herzog

Elenor88

3) Elenor88

80

63

95

- 4) Nicole71
- 5) Jordyn.Jacobson2

2) Identify users who have never posted a single photo on Instagram.



26 users have never posted a single photo on Instagram.

Jessyca_West Esmeralda.Mraz57 Bethany20 3) Determine the winner of the contest and provide their details to the team.

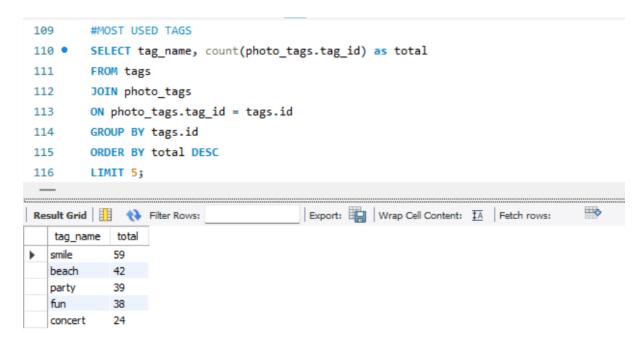
```
98
        # CONTEST WINNER
 99 •
        SELECT username, photos.id, photos.image_url, count(likes.user_id) AS total_likes
100
        FROM users
101
        JOIN photos
        ON users.id = photos.user id
103
        JOIN likes
        ON users.id = likes.user_id
104
        GROUP BY photos.id
105
        ORDER BY total_likes DESC
106
107
        LIMIT 1;
Export: Wrap Cell Content: 🚻 Fetch rows:
                   id
                                         total likes

    Annalise.McKenzie16

                   51
                        https://abagail.com
```

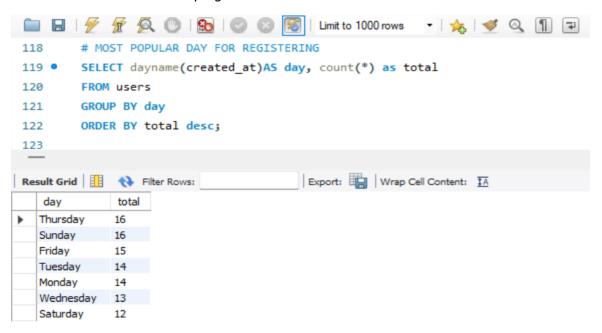
The user with the most likes on their photo is Annalise. McKenzie 16. They are the winner of the Contest!

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



The most popular hashtag to increase our partner brand's visibility on the platform will be #smile.

5) Determine the day of the week when most users register on Instagram. Provide insights on when to schedule an ad campaign.



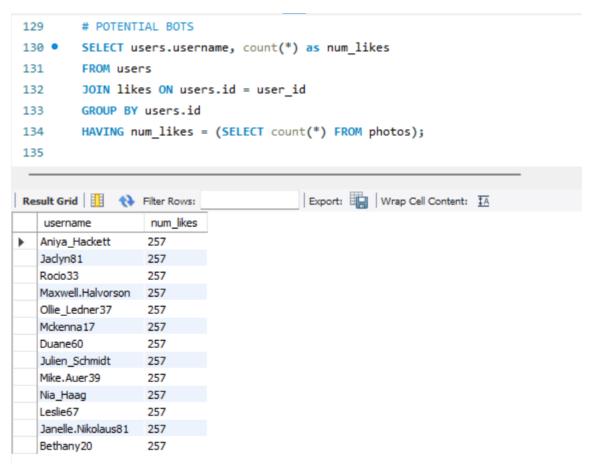
The most suitable days to start an Ad Campaign would be Thursday and Sunday because the maximum number of users register on that day. Friday would also be suitable. The most unsuitable day for an Ad Campaign would be Saturday as reach would be to its minimum potential.

(B) INVESTOR METRICS

1) Calculate the average number of posts per user on Instagram. Also, provide the total number of photos on Instagram divided by the total number of users.

An average user has 2.5 posts on the platform.

2) Identify users (potential bots) who have liked every single photo on the website, as this is not typically possible for a normal user.



13 out of 100 users are potential bots who have liked every single post on the application.

software MySQL. I learned how to write queries and fetch necessary and relevant data from a database.