

INSTAGRAM ANALYTICS

Davidraju Lakkamthoti

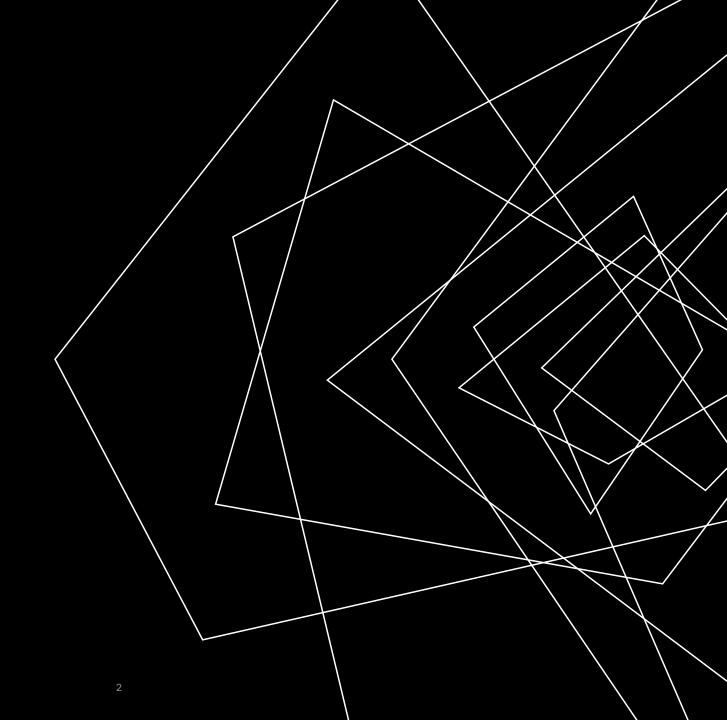
AGENDA

Project description

Approach

Tech-stack used

Insights

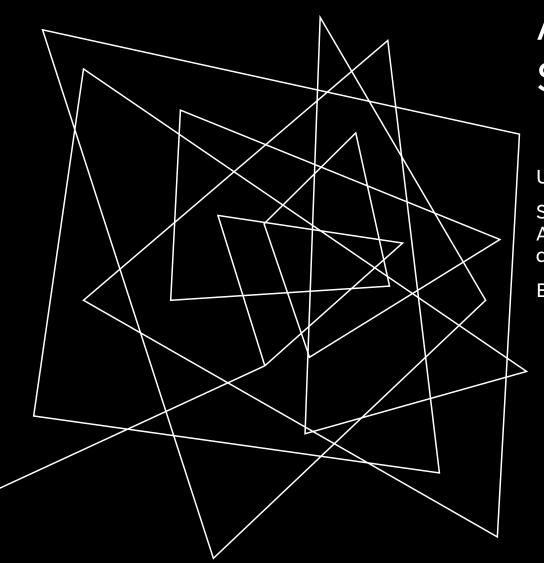


PROJECT DESCRIPTION

This project involves tracking how users engage with Instagram Application.

Analysis of user data is done to understand the trends and user engagement with the digital product, This Project results can aid the product team to take steps for Business Growth and to improve user experience.

We basically aim to observe the user activity with the product.



APPROACH & TECH STACK USED

User data, Photos, Likes, Hash tags, follows, comments.

Separate table data has been collected for the above variables. Analysis is done on SQL Workbench. Used SQL queries to get the desired output.

Excel was used to visualize few results

58 select * from users order by created at asc limit 5; 59 • 6A Edit: Filter Rows: Result Grid id created at username Darby_Herzog 2016-05-06 00:14:21 80 Emilio_Bernier52 67 2016-05-06 13:04:30 63 Elenor88 2016-05-08 01:30:41 Nicole71 95 2016-05-09 17:30:22

2016-05-14 07:56:26

Jordyn.Jacobson2

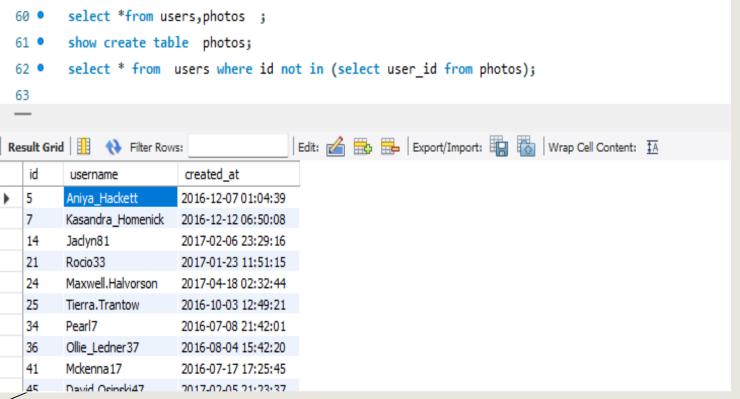
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INSIGHTS

Loyal User Reward: Five oldest users on Instagram from the provided database.

To reward most loyal users, we had to see , who is using Instagram from longer period.

5 users have been identified from the taken data base, Their details were presented in the given snapshot along with the SQL Query.



INACTIVE USER ENGAGEMENT: Identify users who have never posted a single photo on Instagram.

Set of inactive users need to be found, so that team can encourage them to be active.

With the help of SQL query, I was able to find 26 users who were inactive and didn't post a picture from their account. This information can help marketing team to concentrate on them and make them active.

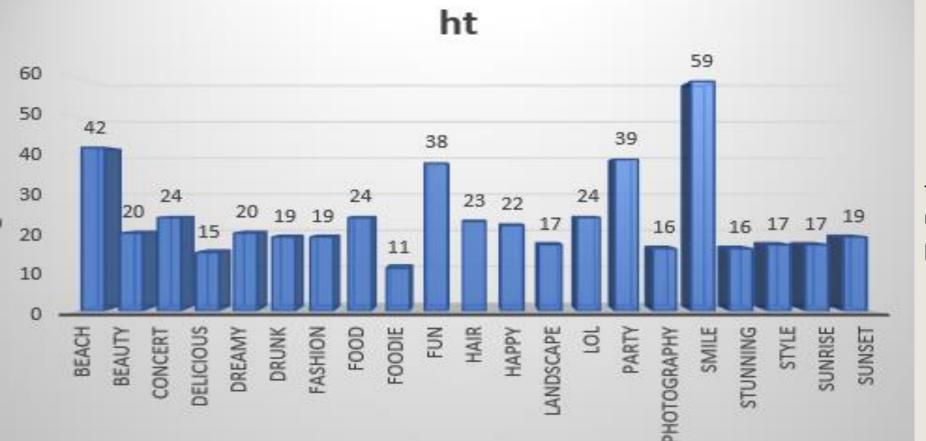
Same details have been presented in the snapshot.

```
select* from likes,users,photos;
 66 •
         show create table likes;
 67 •
 68
         select likes.photo id,users.username, count(likes.user id) as Total likes
 69 •
         from likes inner join photos on Likes.photo id=photos.id
 70
         inner join users on photos.user id=users.id group by likes.photo id,users.username order by Total likes desc limit 3;
 71
                                                                                      4
Result Grid
                                           Export: Wrap Cell Content: A Fetch rows:
              Filter Rows:
                          Total_likes
   photo id
            username
  145
           Zack Kemmer93
           Adelle96
  182
                          43
  127
           Malinda Streich
```

Contest Winner
Declaration: Determine the
winner of the contest and
provide their details to the team.

Product team has announced a contest to improve user participation on the application. We were asked to find the top 3 people who won the contest. SQL Query was used to find the which user got more likes on his photo.

Result has been presented in the above snapshot.



Hashtag Research:

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

To promote and for business reasons, we were asked to find which Hashtag is mostly used by the users. So that information can be used for brand promotion and all.

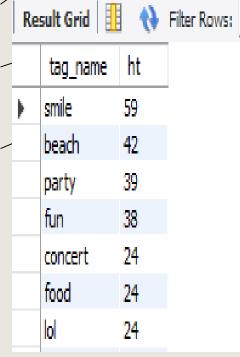
We can observe the above graph, in which 'smile' tag has been used highest and followed by 'beach' and 'party'. This information is helpful for marketing team to take further steps in their marketing strategies.

**SQL query is shown in the next slide.

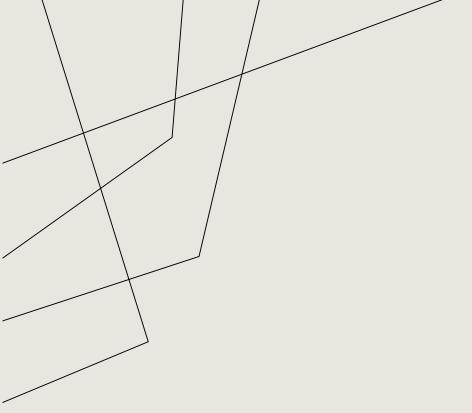
HASHTAG RESEARCH

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- 73 select* from photo_tags,tags;
- 74 select t.tag_name, count(p.photo_id)as ht from photo_tags p inner join tags t on t.id=p.tag_id group by t.tag_name order by ht desc ;



20XX

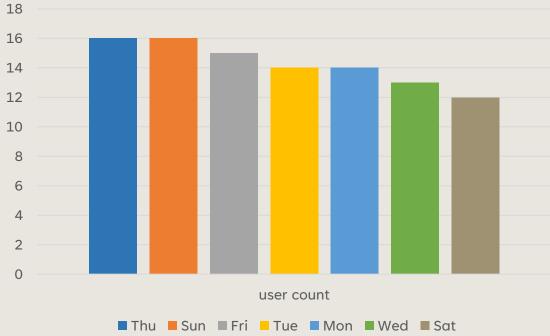


Ad Campaign

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

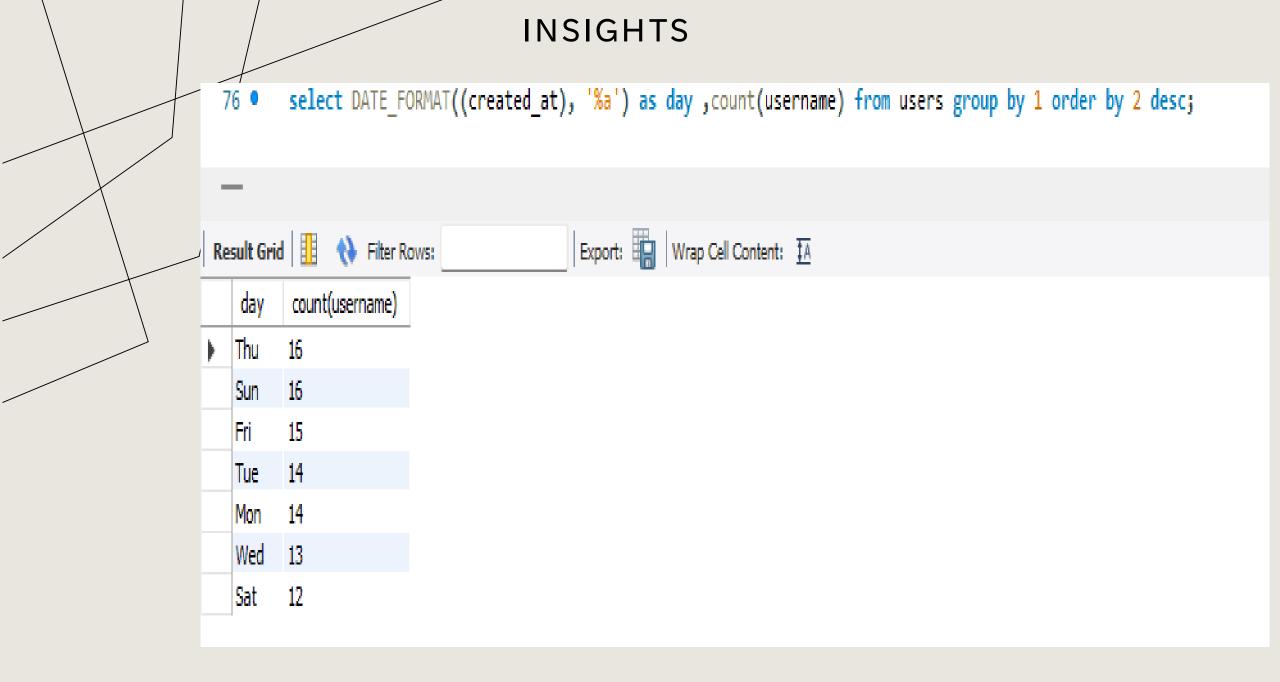
INSIGHTS

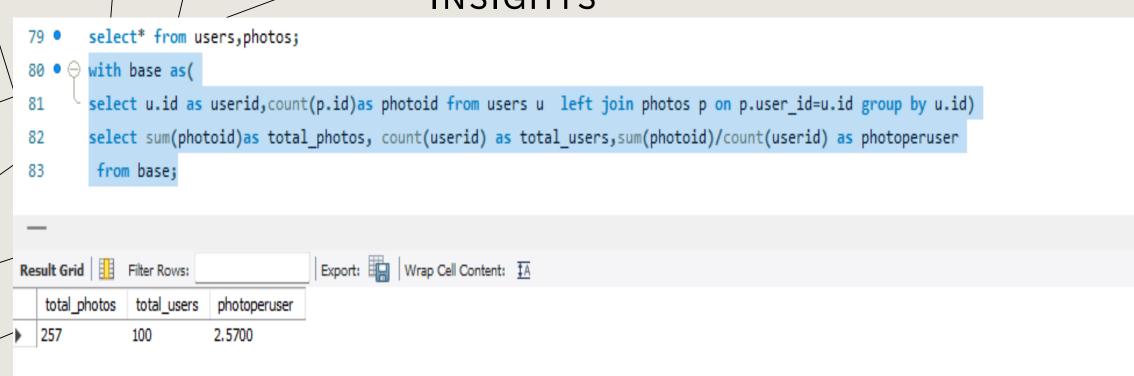




Team wants to know that which Day in a week that new users are registering.

We could see from the above graph that; Sunday and Thursday has seen highest registrations. There is not much difference in comparing with other days also. All the days were almost following the mean.





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.

Investors want to know; How many users are present and how many photos they are posting. With help of SQL query we have seen 100 users are there and they are posting 2.5 photo per person.

This statistically tells each user is posting around 3 photos. This results can encourage investors to invest in Instagram.

select* from users,likes; 87 with base as(select u.username,count(l.photo_id)as likes from likes l inner join users u on u.id=l.user id group by u.username) 88 select username, likes from base where likes=(select count(*) from photos) order by username; 89 Result Grid Filter Rows: Export: Wrap Cell Content: TA likes username Janelle, Nikolaus 81 257 Julien Schmidt 257 Leslie67 257 Maxwell.Halvorson 257 Mckenna 17 Mike. Auer 39 257 Nia_Haag Ollie Ledner37 257 Rocio33 257

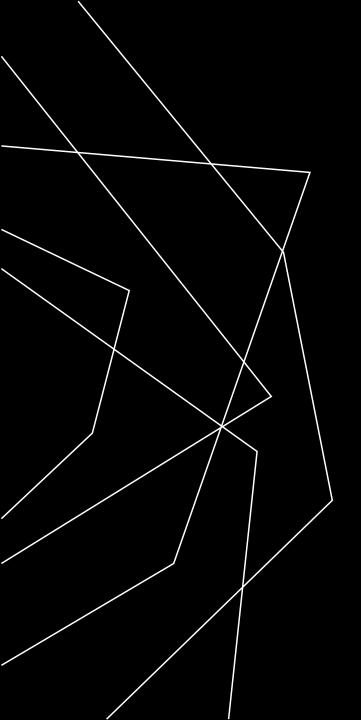
INSIGHTS

Bots & Fake Accounts:

Investors want to know if the platform is crowded with fake and dummy accounts.

Always investors are risk averting in nature. So, they wanted to know about the Bot accounts on Instagram. So, we have decided to look for users who is liking every picture in the Instagram.

We have found total of 13 users, liked every picture. Which is not natural for human beings. So, this information will be communicated to the development team to remove such accounts from the platform which affects the business and fame of Instagram.



THANK YOU

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