

Instagram







Instagram

















PROJECT DESCRIPTION

This Project is about INSTAGRAM USER ANALYTICS.

User analysis is the process by which we get to know how users use it and interact with our digital product (software or mobile application) in an attempt to derive business insights for marketing, product & development teams.

These insights are then used by teams across the business to launch a new marketing campaign, decide on features to build for an app, track the success of the app by measuring user engagement and improve the experience altogether.

PROJECT MANAGEMENT

So To handle this project I need to attend the lectures so that I can attend the questions provided in the project correctly and make my report in powerpoint to submit my project on time.

For doing this project first I need to answer the Queries asked by the Product team of the Instagram and have to help them out by the output from the respective queries.

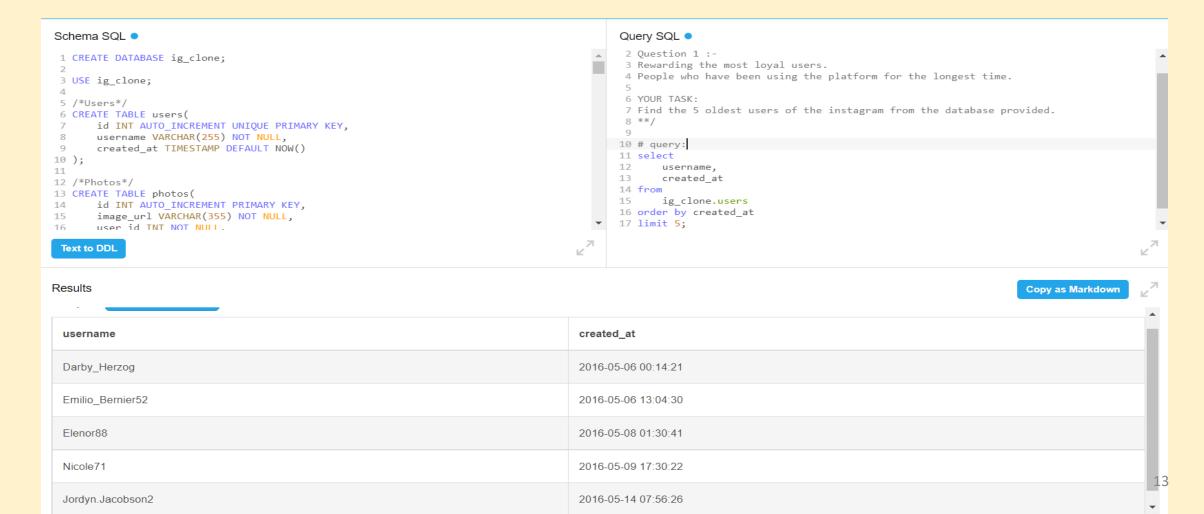
So the first step would be writing the queries for each and every question with the help of dataset provided in the db- fiddle. Then after finding the right output I have to analyse the tables and screenshot them for putting them in my ppt.

PROJECT RESEARCH

PROJECT DESCRIPTION

Instagram User Analytics

- A) Marketing: The marketing team wants to launch some campaigns, and they need your help with the following.
- i.)Rewarding Most Loyal Users: People who have been using the platform for the longest time.



ii.)Remind Inactive Users to Start Posting: By sending them promotional emails to post their 1st photo.

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



```
Query SQL •
1 # Your Task: Find the users who have never posted a single photo on Instagram
 3 select
       u.username
 5 from
       ig clone.users u
 7 left join
       ig clone.photos p
9 on u.id=p.user id
10 where p.user id is null
11 order by
12
       u.username;
13
14
15
16
```

OUTPUT

Results	Copy as Markdown	7 k
Query #1 Execution time: 1ms		
username		
Aniya_Hackett		
Bartholome.Bernhard		
Bethany20		
Darby_Herzog		
David.Osinski47		
Duane60		
Esmeralda.Mraz57		
Esther.Zulauf61		
Franco_Keebler64		
Hulda.Macejkovic		
Jaclyn81		
Janelle.Nikolaus81		



iii.) Declaring Contest Winner: 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



iv.) Hashtag Researching: 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.



Query SQL •

```
1 # Your Task: Identify and suggest the top 5 most commonly used hashtags on the
  platform
2
3 select tags.tag_name,count(pt.photo_id)as times_of_tags_used
4 from ig_clone.photo_tags pt
5 inner join ig_clone.tags
6 on pt.tag_id=tags.id
7 group by tags.tag_name
8 order by times_of_tags_used desc
9 limit 5;
10
11
```

<u>OUTPUT</u>

Results

Copy as Markdown

Query #1 Execution time: 1ms

tag_name	times_of_tags_used		
smile	59		
beach	42		
party	39		
fun	38		
concert	24		

v.) <u>Launch AD Campaign</u>: 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



```
Query SQL 

1 # Your Task: What day of the week do most users register on? Provide insights on when to schedule an ad campaign.

2 select
4 weekday(created_at) as weekday,
5 count(username) as num_of_users
6 from ig_clone.users
7 group by
8 1
9 order by
10 2 desc
11 Limit 5;
```

20

OUTPUT

Results

Copy as Markdown

results

Query #1 Execution time: 1ms

weekday	num_of_users
3	16
6	16
4	15
1	14
0	14

- **B) Investor Metrics:** Our investors want to know if Instagram is performing well and is not becoming redundant like Facebook, they want to assess the app on the following grounds.
- User Engagement: Are users still as active and post on Instagram or they are making fewer posts

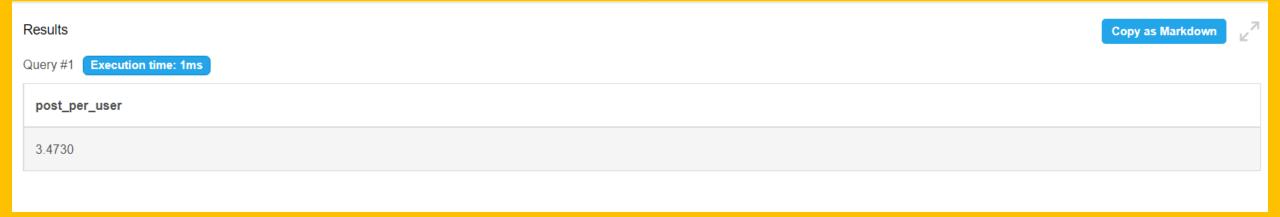
Your Task: Provide how many times does average user posts on Instagram.

QUERY

Query SQL •

```
1 # 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
4 with CTE AS (
5 select
      u.id as userid,
       count(p.id) as photoid
8 from
       ig clone.users u
10 left join
       ig clone.photos p
12 on u.id = p.user id
13 group by
       u.id
16 select sum(PHOTOID)/COUNT(USERID) as post_per_user
17 from CTE
18 where
       photoid>0
20
```

<u>OUTPUT</u>



<u>User Engagement</u>: Are users still as active and post on Instagram or they are making fewer posts

Your Task: Also, provide the total number of photos on Instagram/total number of users.



Query SQL •

```
1 # 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
3 with CTE as (
4 SELECT
       u.id as userid,
       count(p.id) as photoid
7 from
       ig_clone.users u
9 LEFT join
       ig clone.photos p
11 on u.id = p.user id
12 group by
       u.id
13
14 )
15 select
       sum(photoid) as total photos,
16
       count(userid) as total_userid,
17
       sum(photoid)/ count(userid) as photos_user
18
19
20 from
       CTE
```



Results

Copy as Markdown

×7

Query #1 Execution time: 1ms

total_	_photos	total_users	avg_users
257		100	2.5700

Bots & fake accounts: the investors want to know if the platform is crowded with fake and dummy accounts

<u>your task</u>: 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).

QUERY

```
Query SQL •
 1 With photo_count as (
 2 select
       user id,
       count(photo id) as num likes
 5 from
       ig clone.likes
 7 group by
       user id
 9 order by
       num_likes desc
11 )
12 select
14 from photo count
15 where
16    num_likes = (Select count(*) from ig_clone.photos)
```

OUTPUT

Results

Copy as Markdown

Query #1 Execution time: 3ms

Query #1 Execution time: 3ms		
user_id	num_likes	
75	257	
21	257	
24	257	
91	257	
36	257	
41	257	
14	257	
76	257	
54	257	
57	257	
66	257	
5	257	v
71	257 27	



While making this project I have learned the following things:-

- How to write Queries, determine the output and analyse it based on the question given.
- I always had problem on what columns to select according to question. So, I think after doing this project I had become more precise and clear on what columns to select as per question given.
- How to install and use MySql server and write queries on it.
- On how to write Queries in a more simplified Way.
- When to use Operators and Functions.