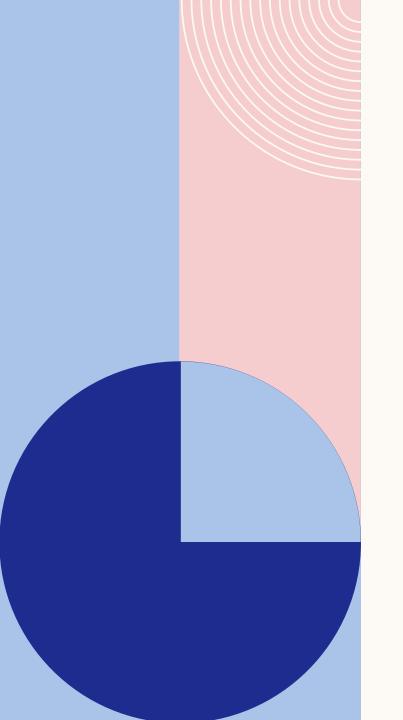
# INSTAGRAM USER ANALYTICS

#### PROJECT DESCRIPTION

- This Project is Regarding the data analytics of Instagram user's where we extract the useful insights from the data that we get from the management.
- We need to provide the required and useful insights from question's given the management and investors.

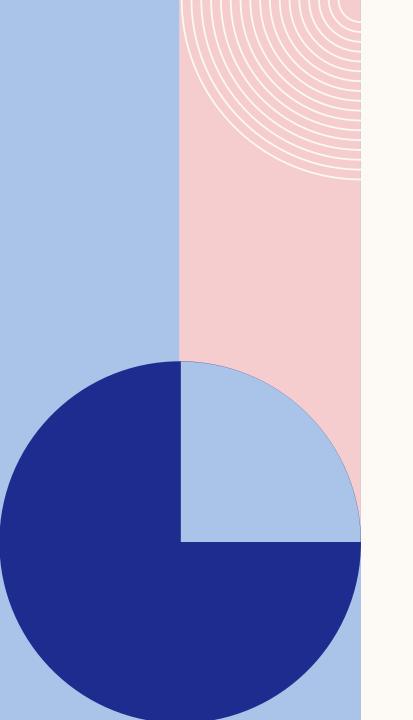
### **MY APPROACH**

- Firstly I have checked the data completely and by reviewing the data that we got from the management.
- Understanding each question got from the management and investors.
- Visualizing the ways so that I get the required metrics from that data.
- Which function's are needed to be used for extracting the specific insight from data.



### **INSIGHTS**

- There are various insights I gained by doing the analysis of the data.
- Where I used various SQL functions In an efficient way.
- I came to know about metrics like the average per user's, how to identify the bots in platform.
- Which day the user's are most active, most used hashtag's, most likes on single photo of a particular user.
- Where we have to get data from various databases and join them extract important metrics.



## **TECH-STACK USED**

• To analyze the data and to gain insights form the data I have used the My SQL Workbench

### MARKETING

#### **MOST LOYAL USERS**

USERNAME	CREATED_AT
Darby_Herzog	06-05-2016 00:14
EMILIO_BERNIER52	06-05-2016 13:04
ELENOR88	08-05-2016 01:30
NICOLE71	09-05-2016 17:30
JORDYN.JACOBSON2	14-05-2016 07:56

- The above user's are most loyal users according to the data because these user's are created there accounts ahead of time before many user's present in the data.
- The above user's are oldest user's of the platform we can that see by ascending order of account created date.
- The marketing team can reward those user's as most loyal user's of the platform.

SELECT username, created\_at From Users
ORDER by created\_at ASC LIMIT 5;

#### **INACTIVE USERS:**

ID	USERNAME	
5	Aniya_Hackett	
7	Kasandra_Homenick	
14	Jaclyn81	
21	Rocio33	
24	Maxwell.Halvorson	
25	Tierra.Trantow	
34	Pearl7	
36	Ollie_Ledner37	
41	Mckenna17	

- The above user's are inactive user's in data provided where those didn't post any photo till date.
- We know that metric by going through the particular user's photo\_id and image url.
- If we get the image url and user's photo\_id then he is an active user (or) we get image url and photo\_id as NULL then he is an inactive user.
- So the team can send them the promotional email's to post there 1st photo for above user's.

SELECT username, created\_at From Users
ORDER by created\_at ASC LIMIT 5;

#### **CONTEST WINNER:-**

ID	USERNAME	PHOTO_ID	HIGHEST LIKES
52	Zack_Kemmer93	145	48

• The contest Winner is Zack\_kemmer93 who got 48 likes on the single photo.

**SELECT** users.id,username,likes.photo id,COUNT(\*) highest\_likes FROM ig\_clone.users users JOIN ig\_clone.photos photos ON users.id = photos.user id JOIN ig\_clone.likes likes ON photos.id= likes.photo id GROUP by 3 ORDER by 4 DESC LIMIT 1

#### **TOP HASHTAG'S USED:**

TAG NAME	MOST USED
smile	59
beach	42
party	39
fun	38
concert	24

- Smile, beach, party, fun and concert are most used hastag's on photo's by platform user's.
- If we use the same hashtag's in brand post's the reach will be higher and most people will interact with the post.

SELECT tag\_name,COUNT(\*) most used FROM ig\_clone.tags JOIN ig\_clone.photo\_tags ON id=tag id **GROUP BY tag\_name** ORDER BY most used desc LIMIT 5

#### **AD LAUNCH CAMPAIGN:-**

REGISTERED_DAY	COUNT(*)
Thursday	16
Sunday	16

- Most user's are registered on Thursday and Sunday on the platform.
- So when we have to launch an AD campaign we can do that on that day.

SELECT dayname(created\_at) regsitered\_day, count(\*)
FROM ig\_clone.users
GROUP BY 1
ORDER BY 2 DESC
LIMIT 2

#### **INVESTOR METRICS**

#### **USER ENGAGEMENT**

#### AVG\_USER\_POST

2.57

- There are 100 users on platform and those user's posted 257 posts on the platform.
- The average posts on platform by users would be posts/users so that will be 2.57.

SELECT COUNT(\*) FROM ig\_clone.photos)/(SELECTCOUNT(\*) FROM ig\_clone.users)
AS avg\_user\_post

#### **BOTS & FAKE ACCOUNTS:-**

BOTS	LIKES_ON_PHOTOS
Aniya_Hackett	257
Jaclyn81	257
Rocio33	257
Maxwell.Halvorson	257
Ollie_Ledner37	257
Mckenna17	257
Duane60	257
Julien_Schmidt	257
Mike.Auer39	257
Nia_Haag	257
Leslie67	257
Janelle.Nikolaus81	257
Bethany20	257

• The above user's are fake (or) bots as per given condition these user's likes the every post on the platform posted by the user's.

SELECT users.username bots,

COUNT(likes.photo\_id) likes\_on\_photos

FROM ig\_clone.likes likes

JOIN ig\_clone.users users

ON likes.user\_id = users.id

GROUP BY 1

HAVING likes\_on\_photos = MAX(likes.photo\_id);

### **RESULT**

- This project is very helpful for me to apply the SQL language to perform some logical operations to perform on the given data.
- Where I analyzed the data and I gained very useful insights from that data about the user's and there activity on the platform.
- Used join functions, aggregate function and sorting functions on the data to gain the useful hidden metrics in data.
- I learned lot of practical applications of SQL and it's functions and that enhanced my SQL and Analytic Skills.

# **THANK YOU**