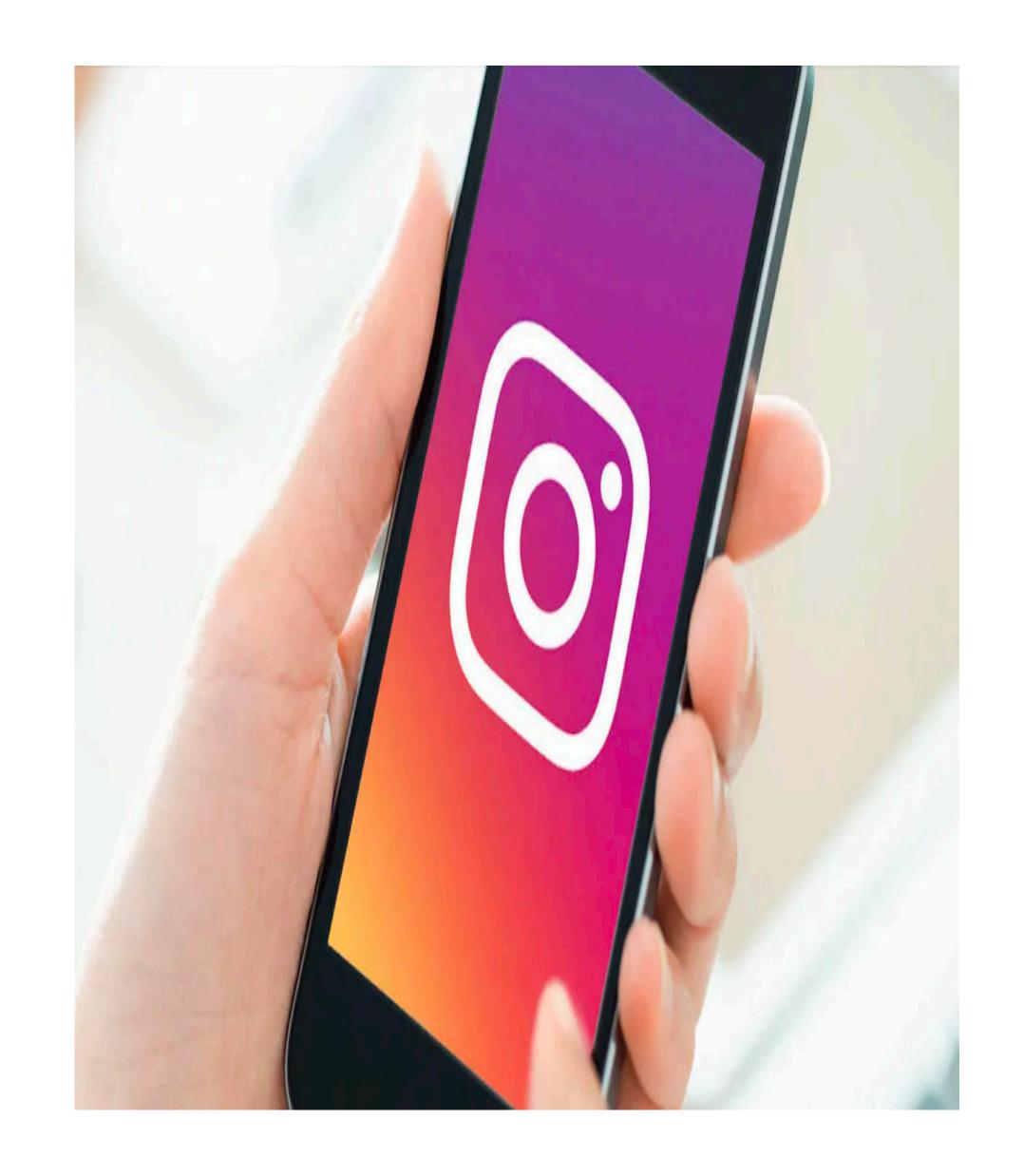
INSTAGRAM USER ANALYTICS

A PROJECT BY SHOAIB KHAN UNDER TRAINITY



PROJECT DESCRIPTION

Description:

We track how users engage and interact with INSTAGRAM to derive business insights for marketing, product & development teams.

I have been provided with a dataset and have to provide insights on the following -

- A) Marketing: The marketing team wants to launch some campaigns, and they need insights on
 - Rewarding Most Loyal Users
- Remind Inactive Users to Start Posting
- 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.

- Hashtag Researching: A partner brand wants to know, which hashtags to use in the post to reach the most people on the platform.
- Launch AD Campaign: The team wants to know, which day would be the best day to launch ADs.
- 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 active and posting on Instagram or they are making fewer posts?
- Bots & Fake Accounts: The investors want to know if the platform is crowded with fake and dummy accounts.

APPROACH

- Rewarding Most Loyal Users: People who have been using the platform for the longest time.
 - So we will Find the 5 oldest users of Instagram from the database provided.
- Remind Inactive Users to Start Posting: By sending them promotional emails to post their 1st photo.
 - So we will Find the users who have never posted a single photo on Instagram
- 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.
 - So we will Identify the winner of the contest and provide their details to the team
- Hashtag Researching: A partner brand wants to know, which hashtags to use in the post to reach the most people on the platform.
 So we will Identify and suggest the top 5 most commonly used hashtags on the platform
- Launch AD Campaign: The team wants to know, which day would be the best day to launch ADs.

 So we will find What day of the week most users register on to Provide insights on when to schedule an ad campaign
- User Engagement: Are users still as active and post on Instagram or they are making fewer posts
 So we will Provide how many times does average user posts on Instagram.
- Bots & Fake Accounts: The investors want to know if the platform is crowded with fake and dummy accounts So we will 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).

TECH-STACK USED

- MySQL Server(8.0.33-arm64)
- MySQL Workbench(8.0.28.CE)



Instagram has a huge dataset and managing them with MS Excel or Manually is very difficult so I preferred to use MySQL as it can handle data with commands, manage multiple tables and connect them, easy to use, etc



INSIGHTS

TOP 5 OLDEST USERS

	id	username	created_at
	80	Darby_Herzog	2016-05-06 00:14:21
	67	Emilio_Bernier52	2016-05-06 13:04:30
	63	Elenor88	2016-05-08 01:30:41
	95	Nicole71	2016-05-09 17:30:22
	38	Jordyn.Jacobson2	2016-05-14 07:56:26

People with 0 posts

	user_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
	45	David.Osinski47
	49	Morgan.Kassulke
	53	Linnea59
	54	Duane60
	57	Julien_Schmidt
	66	Mike.Auer39
	68	Franco_Keebler64
	71	Nia_Haag
	74	Hulda.Macejkovic
	75	Leslie67
	76	Janelle.Nikolaus81
	80	Darby_Herzog
	81	Esther.Zulauf61
	83	Bartholome.Bernhard
	89	Jessyca_West
	90	Esmeralda.Mraz57
	91	Bethany20

PHOTO WITH ID NO. 145 GOT Max likes and it belongs to user id 52 who is username: Zack_Kemmer93

	LIKES	photo_id
	48	145
	43	127
	43	182
	42	123
	41	30
	41	52
	41	61
	41	147
	41	174
	41	192
	41	256
	40	13
	40	97
	40	153
	40	161
	40	244
	39	44
	39	62
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Top 5 most used HashTags

	tag_id	tag_name	Total_use
	21	smile	59
	20	beach	42
	17	party	39
	13	fun	38
	18	concert	24
	_		

MOST REGISTRATIONS OCCUR ON THURSDAY AND SUNDAY

	WEEK_DAY	Total_Registered
	3	16
	6	16
	4	15
	1	14
	0	14
	2	13
	5	12

TOTAL NO. OF PHOTOS = 257 TOTAL NO. OF USERS = 100 TOTAL NO. OF PHOTOS/TOTAL NO. OF USERS = 2.57 = Average no. of posts by a user

USER ID OF USERS WHO HAVE LIKED ALL 257 PHOTOS -

	user_id	TOTAL_LIKES
	5	257
	14	257
	21	257
	24	257
	36	257
	41	257
	54	257
	57	257
	66	257
	71	257
	75	257
	76	257
	91	257

RESULT

THROUGH THE PROJECT WE -

- We learnt how much data analysis is important for an organisation.
- Took meaningful insights from a huge dataset
- Learn how to analyse simultaneously many tables at a time