

INSTAGRAM USER ANALYTICS

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PROJECT DESCRIPTION

Finding business insights by marketing and investor metrics which involves analyzing user interactions and engagement with the Instagram app to provide valuable insights that can help the business grow.



Approach

Database creation: Using SQL we create the table and inserted value in the database provided as a reference using SQL queries.

Extraction of insights: After creation of the database required insights are generted from MYSQL workbench.

Tech-version Used

Used MySQL Community Server - GPL Version 8.0.40.0 msi for this project.

INSIGHTS: MARKETING

■ Loyal User Reward: The marketing team wants to reward the most loyal users, i.e., those who have been using the platform for the longest time.

5 oldest users of the Instagram from the database are:

```
92
         SELECT * FROM users ORDER BY created_at ASC
        LIMIT 5;
created_at
         username
        Darby_Herzog
                        2016-05-06 00:14:21
        Emilio_Bernier52
                        2016-05-06 13:04:30
        Elenor88
                        2016-05-08 01:30:41
        Nicole71
                        2016-05-09 17:30:22
        Jordyn. Jacobson 2
                        2016-05-14 07:56:26
```



The users who have never posted a single photo on Instagram

Inactive User Engagement: The team wants to encourage inactive users to start posting by sending them promotional emails.

Your Task: Identify users who have never posted a single photo on Instagram.

```
select users.id,username, count(photos.user_id) AS'no._of_posts'from users
LEFT JOIN photos
ON users.id=photos.user_id
group by users.id having count(photos.user_id)= 0;
```

	id	username	noof_posts
•	5	Aniya_Hackett	0
	7	Kasandra_Homenick	0
	14	Jadyn81	0
	21	Rocio33	0
	24	Maxwell.Halvorson	0
	25	Tierra.Trantow	0
	34	Pearl7	0
	36	Ollie_Ledner37	0
	41	Mckenna 17	0
	45	David, Osinski 47	0
	49	Morgan.Kassulke	0
	53	Linnea59	0
	54	Duane60	0
	57	Julien_Schmidt	0
	66	Mike. Auer 39	0
	68	Franco_Keebler64	0
	71	Nia_Haag	0
	74	Hulda.Macejkovic	0
	75	Leslie67	0
	76	Janelle.Nikolaus81	0
	80	Darby_Herzog	0
	81	Esther.Zulauf61	0
	83	Bartholome.Bernhard	0
	89	Jessyca_West	0
	90	Esmeralda.Mraz57	0
	91	Bethany20	0



Contest Winner Declaration: The team has organized a contest where the user with the most likes on a single photo wins.

Your Task: Determine the winner of the contest and provide their details to the team.

```
SELECT id, username

from users

WHERE id = (SELECT user_id FROM photos

WHERE id = (SELECT photo_id

FROM likes

GROUP BY photo_id

ORDER BY count(photo_id)

DESC LIMIT 1));
```

Details of the winner of the contest are:

	id	username
١	52	Zack_Kemmer93

Hashtag Research: A partner brand wants to know the most popular hashtag to use in their posts to reach the most people.

```
select tg.tag_name,
   COUNT(tg.tag_name) as 'hastags'
   from tags tg
   INNER JOIN photo_tags p
   ON tg.id = p.tag_id
   group by tg.tag_name
   order by count(tg.tag_name)
   desc limit 5;
```

The top 5 most commonly used hashtags on the platform are

	tag_name	hastags
•	smile	59
	beach	42
	party	39
	fun	38
	concert	24



Ad Campaign Launch: The team wants to know the best day of the week to launch ads.

```
select DAYNAME(created_at) as 'week day',
COUNT(dayname(created_at)) as 'registered users'
from users
GROUP BY dayname(created_at)
order BY COUNT(DAYNAME(created_at))
DESC LIMIT 2;
```

Day of the week do most users register on:

	week day	registered users
•	Thursday	16
	Sunday	16



Bots & Fake Accounts: Investors want to know if the platform is crowded with fake and dummy accounts.

```
select id ,username from users where id in(select user_id from likes
group by user_id
having count(user_id)=(select count(id) from photos));
```

	id	username
•	5	Aniya_Hackett
	14	Jaclyn81
	21	Rocio33
	24	Maxwell.Halvorson
	36	Ollie_Ledner37
	41	Mckenna 17
	54	Duane60
	57	Julien_Schmidt
	66	Mike. Auer 39
	71	Nia_Haag
	75	Leslie67
	76	Janelle.Nikolaus81
	91	Bethany 20

Results

- ☐ Learnt fundamentals of data analysis through SQL queries which is used to extract meaningful insights from the data.
- ☐ Conclusions from above analysis:
 - Marketing team needs to give reward to the most loyal customers,
 - Sending some promotional emails to their inactive users,
 - Using popular hashtags and finding most effective day for brand promotions.
 - User engagement can be very useful for growth success metric for the company
 - > Company can remove the bots and fake accounts from the platform to enhance user experience

THANK YOU