Instagram User Analytic

- A) **Project Description:**This project aims to extract useful insights from raw data/metadata, using various database management tools, and even visualize them to increase the platform's efficiency.
- B) **Project Approach:**The project was executed using SQL, where queries were utilized to create a database from the provided raw data. Sorting and data extracting queries were then implemented to obtain the required data/insights.
- C) **Tech Stack Used**: The tech stack used included MySQL Workbench v8.0.30.0, which was an excellent tool for querying the database, thanks to its ease of access, simple setup, and GUI, as well as its troubleshooting support.

Project Insights:(Raw Insights:)A) Marketing:

1. Rewarding Most Loyal Users: People who have been using the platform for the longest time.

Conclusion: These are the oldest user of instagram.

8	0 Darby_Herzog	2016-05-06	00:14:21
6	7 Emilio_Bernier52	2016-05-06	13:04:30
6	3 Elenor88	2016-05-08	01:30:41
9	5 Nicole71	2016-05-09	17:30:22
3	8 Jordyn.Jacobson2	2016-05-14	07:56:26

Code: SELECT *

FROM users

ORDER BY created at

LIMIT 5;

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

Conclusion: These users were inactive after their first post.

- 5 Aniya_Hackett
- 7 Kasandra Homenick
- 14 Jaclyn81
- 21 Rocio33
- 24 Maxwell.Halvorson
- 25 Tierra. Trantow
- 34 Pearl7

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36 Ollie Ledner37
41 Mckenna17
45 David.Osinski47
49 Morgan. Kassulke
53 Linnea59
54 Duane60
57 Julien Schmidt
66 Mike. Auer 39
68 Franco Keebler64
71 Nia_Haag
74 Hulda.Macejkovic
75 Leslie67
76 Janelle. Nikolaus 81
80 Darby Herzog
81 Esther.Zulauf61
83 Bartholome.Bernhard
89 Jessyca West
90 Esmeralda.Mraz57
91 Bethany20
Code:SELECT username
FROM users
LEFT JOIN photos
      ON users.id=photos.user_id
WHERE photos.id IS NULL;
3. 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.
Conclusion: He has the most likes in his one post.
Zack Kemmer93 145 https://jarret.name 48
Code: SELECT
  username,
      photos.id,
```

INNER JOIN likes

FROM photos

photos.image_url,

count(likes.user id) AS total

ON likes.photo_id=photos.id

INNER JOIN users

ON photos.user_id = users.id

GROUP BY photos.id

ORDER BY total DESC

LIMIT 1;

4. Hashtag Researching: A partner brand wants to know, which hashtags to use in the post to reach the most people on the platform.

Conclusion: These are some trending hastags which a partner brand can use.

smile	59
beach	42
party	39
fun	38
food	24
lol	24
concert	24
hair	23
happy	22
beauty	20
dreamy	20
sunset	19
fashion	19
drunk	19
sunrise	17
landscape	17
style	17
photography	16
stunning	16
delicious	15
foodie	11

Code: SELECT

tags.tag_name,

```
COUNT(*) AS total
   FROM photo tags
     JOIN tags
      ON photo tags.tag id= tags.id
   GROUP BY tags.id
   ORDER BY total DESC
   LIMIT 5;
   SELECT tags.tag_name,
      Count(*) AS total
   FROM photo_tags
      JOIN tags
       ON photo_tags.tag_id = tags.id
   GROUP BY tags.id
   ORDER BY total DESC;
5. Launch AD Campaign: The team wants to know, which day would be the
best day to launch ADs.
Conclusion: these days would be best for AD campaign.
Thursday 16
Sunday 16
Code:
SELECT
  DAYNAME(created at) AS day,
  count(*) as total
FROM users
GROUP BY day
ORDER BY total DESC
LIMIT 2;
```

B)Investor Metrics

6. User Engagement: Are users still as active and post on Instagram or they are making fewer posts

Conclusion: A users avaerage post is more than 2.

2.5700

Code: SELECT (SELECT COUNT(*) FROM photos) / (SELECT COUNT(*) FROM users) AS avg;

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

Conclusion: These are some user who can be boat and fake account.

Aniya Hackett 257 Bethany20 257 Duane60 257 Jaclyn81 257 Janelle.Nikolaus81 257 Julien Schmidt 257 Leslie67 257 Maxwell.Halvorson 257 Mckenna17 257 Mike.Auer39 257 Nia Haag 257 Ollie Ledner37 257 Rocio33 257

Code: SELECT user id, COUNT(*) as num likes

FROM likes

GROUP BY user id

HAVING num likes = (SELECT COUNT(*) FROM photos);

SELECT u.username, COUNT(*) as num likes

FROM users u

JOIN likes I ON u.id = I.user id

GROUP BY u.id

HAVING num likes = (SELECT COUNT(*) FROM photos);