Instagram User Analytics

- **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 SOL, 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 8.0.30.0, 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.

Travon.Waters 2017-04-30 13:26:14 Milford_Gleichner42 2017-04-30 07:50:51 Maxwell.Halvorson 2017-04-18 02:32:44 Justina.Gaylord27 2017-05-04 16:32:16 Hailee26 2017-04-29 18:53:40

Code: select * from users;

select username, created_at from users order by created_at desc 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.

Aniya_Hackett

Kasandra_Homenick

Jaclyn81

Rocio33

Maxwell.Halvorson

Tierra.Trantow

Pearl7

Ollie Ledner37

Mckenna17

David.Osinski47

Morgan.Kassulke

Linnea59

Duane60

Julien Schmidt

Mike.Auer39

Franco_Keebler64

Nia_Haag

Hulda.Macejkovic

Leslie67

Janelle.Nikolaus81

Darby_Herzog

Esther.Zulauf61

Bartholome.Bernhard

Jessyca_West

Esmeralda.Mraz57

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 hip one post.

Code: select * from likes,photos,users;

select likes.photo_id,users.username, count(likes.user_id) as likess from likes inner join photos on likes.photo_id= photos.id inner join users on photos.user_id=users.id group by likes.photo_id,users.username order by likess desc;

```
photo_id username likess
     145 Zack Kemr
                          48
     127 Malinda_St
                          43
     182 Adelle96
                         43
     123 Seth46
                         42
      30 Presley_Mc
                         41
      52 Annalise.M
                         41
      61 Delpha.Kih
                         41
     147 Meggie_Dc
                          41
     174 Elenor88
                          41
```

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

concert 24

Code: select * from photo_tags,tags; select t.tag_name,count(p.photo_id) as ht from photo_tags p inner join tags t on t.id=p.tag_id group by t.tag_name order by ht desc limit 5;

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
Friday 15
Tuesday 14
Monday 14
Wednesday 13
Saturday 12

Code:

select * from users;
select date_format((created_at), '%W') as dayy,count(username) from users
group by 1 order by 2 desc;

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

Conclusion: A users avarage post is more than 2.

Totalphotos total_users photosperuser 257 100 2.5700

Code: select * from photos;

with base as(

select u.id as userid,count(p.id) as photoid from users u left join photos p on p.user_id= u.id group by u.id)

select sum(photoid) as totalphotos, count(userid) as total_users, sum(photoid)/count(userid) as photoperuser

from base;

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

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

Username likess

Aniya_Hackett 257

Bethany20 257

Duane60 257

Jaclyn81 257

Janelle. Nikolaus 81 257

Julien_Schmidt 257

Leslie67 257

Maxwell.Halvorson 257

Mckenna17 257

Mike.Auer39 257

Nia Haag 257

Ollie Ledner37 257

Rocio33 257

Code: select * from users, likes;

with base as(

select u.username,count(l.photo_id) as likess from likes I inner join users u on u.id=l.user_id

group by u.username)

select username, likess from base where likess=(select count(*) from photos) order by username;