Instagram User Analytics

Project Description

To track how users engage and interact with digital product in an attempt to derive business insights for marketing, product & development teams and measuring user engagement and improve the experience altogether while helping the business grow. Giving an insight by analyzing the given data

Approach

Taking the dataset into consideration and solving each query using SQL to get an insight for marketing and investor metrics.

Tech-Stack Used

Microsoft SQL Server Management Studio

- Version: 18.11.1
- I have already installed SQL server in my laptop and had good hands on experience with the SQL server

Online editors

- Hacker rank, lettcode, strata scratch, mode.com
- To get a good grip on different platforms, I have used these online editors as well.

Insights

To put it down in one sentence Gained knowledge on how to analyze each given problem and find relevant solutions to it using SQL.

Result

I have achieved strong knowledge on SQL while making the project and it helped me to improve my basic knowledge in SQL to advance level and also learned how to deal a problem to find better solution

Queries

A) Marketing:

- 1. select Top (5) username from dbo.users order by created_at;
- 2. select username from dbo.users where id in (select user_id from dbo.photos where image url =")
- 3. select u.id, u.username,p.image_url from users u,photos p,likes l where u.id=p.user_id and p.id=l.photo_id and u.id=l.user_id and p.id=(select top 1)

- photo_id from dbo.likes group by photo_id having COUNT(photo_id)>1 order by count(photo_id) desc)
- 4. select tag_name from dbo.tags where id= (select_top 1 tag_id from dbo.photo_tags group by tag_id having COUNT(photo_id)>1 order by count(photo_id) desc)
- select TOP 1 DATENAME(WEEKDAY, created_at)
 ,COUNT(DATENAME(WEEKDAY, created_at)) from dbo.users group by
 DATENAME(WEEKDAY, created_at) having
 COUNT(DATENAME(WEEKDAY, created_at))>1

B) Investor Metrics:

1.

- a) select avg(a.averageposts) as "average user posts on Instagram" from (select user_id,count(image_url) as averageposts from dbo.photos group by user_id)a
- b) select photos, users, (photos/users) as "photos/users" from (select count(*) photos from dbo.photos)photos_table, (select count(*) users from dbo.users)users_ table
- select user_id from dbo.likes group by user_id having COUNT(photo_id)= (select count(*) from dbo.photos)