Instagram User Analytics

- -- A) Marketing:
- -- Find the 5 oldest users of Instagram from the database provided

```
select * from users order by created_at limit 5;
```

-- Find the users who have never posted a single photo on Instagram select

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username
from users
left join photos
 on users.id = photos.user_id
where photos.id is NULL;

-- Identify the winner of the contest and provide their details to the team

```
photos.id,
photos.image_url,
count(*) as total
from photos
inner join likes
on likes.photo_id = photos.id
group by photos.id
order by total desc
limit 1
```

-- Identify and suggest the top 5 most commonly used hashtags on the platform

```
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
```

-- What day of the week do most users register on?. Provide insights on when to schedule an ad campaign

```
select
to_char(created_at,'Day') as day,
count(*) as total
from users
group by day
order by total desc;
```

- -- B) Investor Metrics:
- -- Provide how many times does average user posts on Instagram. Also, provide the total number of photos on Instagram/total number of users

select
 (select count(*) from photos)/(select count(*) from users);

-- Provide data on users (bots) who have liked every photo on the site (since any normal user would be unable to do this). select

username,
count(*) as likes

from users
inner join likes
on users.id = likes.user_id
group by likes.user_id,users.username
having count(likes) =(select count(*)from photos)