## **MY SQL PROJECT**

#### **Objective**

- Primary Objective: Leverage SQL to retrieve and analyze Instagram data, enabling the development of targeted marketing strategies that drive higher engagement and more effective audience outreach.
- We need to examine dataset with SQL and help- the User to understand its business growth by answering simple questions.

#### **Question Modes**

- Easy Queries include: SELECT, GROUP BY, ORDER BY, LIMIT, DESC.
- Moderate Queries Include: JOINS, GROUP BY, ORDER BY, LIMIT.
- Advance Queries Include : CTE (COMMON TABLE EXPRESSION).



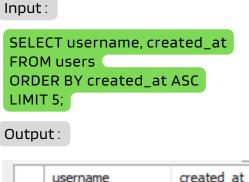
#### **INSTAGRAM DATABASE**





## **MY SQL PROJECT**

#### Q1. Find the 5 oldest users.



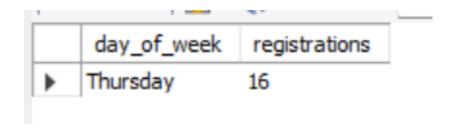
	username	created_at
•	Darby_Herzog	2016-05-06 00:14:21
	Emilio_Bernier52	2016-05-06 13:04:30
	Elenor88	2016-05-08 01:30:41
	Nicole71	2016-05-09 17:30:22
	Jordyn.Jacobson2	2016-05-14 07:56:26

# Q2. What day of the week do most users register on? We need to figure out when to schedule an ad campaign. invoices

Input:

SELECT DAYNAME(created\_at) AS day\_of\_week, COUNT(\*) AS registrations
FROM users
GROUP BY day\_of\_week
ORDER BY registrations DESC
LIMIT 1;

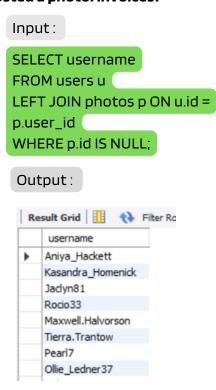
#### Output:



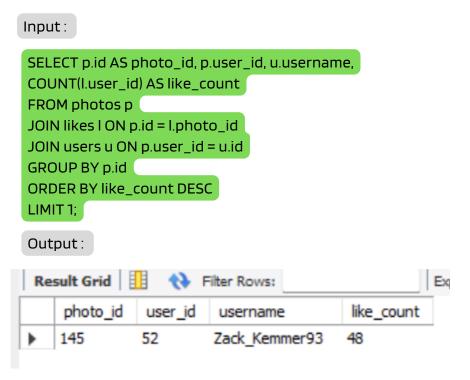


## **MY SQL PROJECT**

Q3. We want to target our inactive users with an email campaign. Find the users who have never posted a photol invoices?

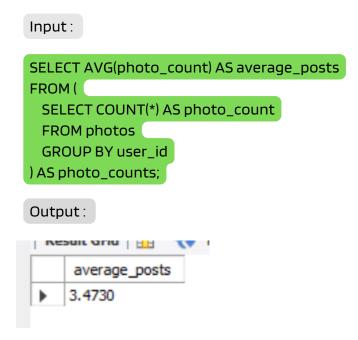


Q4. We're running a new contest to see who can get the most likes on a single photo.WHO WON??!!



## **MY SQL PROJECT**

Q5. Our Investors want to know... How many times does the average user post? HINT - \*total number of photos/total number of users\*



#### Q6. user ranking by postings higher to lower

#### Input:

```
SELECT u.username, COUNT(p.id) AS post_count
FROM users u
LEFT JOIN photos p ON u.id = p.user_id
GROUP BY u.id
ORDER BY post_count DESC;
```

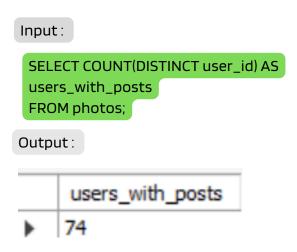
#### Output:

	username	post_count
•	Eveline95	12
	Clint27	11
	Cesar93	10
	Delfina_VonRueden68	9
	Jaime53	8
	Aurelie71	8



## **MY SQL PROJECT**

Q7. total numbers of users who have posted at least one time.



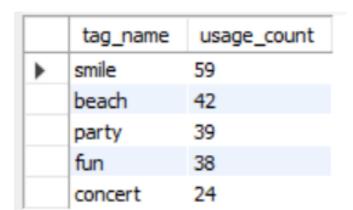


Q8. A brand wants to know which hashtags to use in a post What are the top 5 most commonly used hashtags?

```
Input:

SELECT t.tag_name, COUNT(pt.photo_id) AS usage_count
FROM tags t

JOIN photo_tags pt ON t.id = pt.tag_id
GROUP BY t.tag_name
ORDER BY usage_count DESC
LIMIT 5;
Output:
```



# **MY SQL PROJECT**

Q9. We have a small problem with bots on our site...Find users who have liked every single photo on the site.

# Input: SELECT u.username FROM users u JOIN likes I ON u.id = l.user\_id GROUP BY u.id HAVING COUNT(l.photo\_id) = (SELECT COUNT(\*) FROM photos);

#### Output:

	username
•	Aniya_Hackett
	Jadyn81
	Rocio33
	Maxwell.Halvorson
	Ollie_Ledner37
	Mckenna 17
	Duane60
	Julien_Schmidt
	Janeti_Jeriniae



## **MY SQL PROJECT**

Q10. Find users who have never commented on a photo.

Input:

SELECT username
FROM users u

LEFT JOIN comments c ON u.id = c.user\_id

WHERE c.id IS NULL;

Output:

username

Kenton\_Kirlin

Kasandra\_Homenick

Eveline95

Tierra.Trantow

Jaime53

Pearl7

David.Osinski47

Morgan.Kassulke



## **MY SQL PROJECT**

#### **Project Resource**

• GitHub Project Link: https://github.com/karna-chaskar/SQL-Projects/

#### **Profile Links**

- LinkedIn Profile : <a href="https://www.linkedin.com/in/md-tahseen-equbal-/">https://www.linkedin.com/in/md-tahseen-equbal-/</a>
- GitHub Profile: <a href="https://github.com/Md-Tahseen-Equbal">https://github.com/Md-Tahseen-Equbal</a>
- Mail Id : mdta<u>hseen278@gmail.com</u>







