TASK 2

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- A) Marketing: The marketing team wants to launch some campaigns, and they need your help with the following
 - 1. **Rewarding Most Loyal Users:** People who have been using the platform for the longest time.

Your Task: Find the 5 oldest users of the Instagram from the database provided

SELECT id,username,created_at

FROM users

ORDER BY created_at

LIMIT 5;

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

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

Your Task: Find the users who have never posted a single photo on Instagram

SELECT ID, USERNAME

From users

Where id Not In (Select user_id From photos)

	ID	USERNAME
•	5	Aniya_Hackett
	7	Kasandra_Homenick
	14	Jaclyn81
	21	Rocio33
	24	Maxwell.Halvorson
	25	Tierra.Trantow
	34	Pearl7
	36	Ollie_Ledner37
	41	Mckenna 17
	45	David.Osinski47
	49	Morgan.Kassulke
	53	Linnea59
	54	Duane60
	57	Julien_Schmidt
	66	Mike.Auer39
	68	Franco_Keebler64
	71	Nia_Haag
	74	Hulda.Macejkovic
	75	Leslie67
	76	Janelle.Nikolaus81
	80	Darby_Herzog
		u. u <u>u</u> .
	81	Esther.Zulauf61
	83	Bartholome.Bernhard
	89	Jessyca_West
	90	Esmeralda.Mraz57
	91	Bethany20

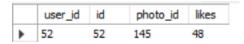
3. **Declaring Contest Winner:** The team started a contest and the user who gets the most likes on a single photo will win the contest now they wish to declare the winner.

Your Task: Identify the winner of the contest and provide their details to the team

select photos.user_id,users.id,likes.photo_id,count(likes.user_id) as likes from likes join photos join users on likes.photo_id = photos.id and photos.user_id = users.id group by likes.photo_id

order by likes 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.

Your Task: Identify and suggest the top 5 most commonly used hashtags on the platform

select tags.id,tag_name,count(photo_tags.photo_id) as Tags

from tags join photo_tags

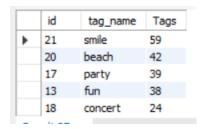
on tags.id=photo_tags.tag_id

where photo_tags.photo_id

group by tag_id

order by Tags desc

limit 5;



5. **Launch AD Campaign:** The team wants to know, which day would be the best day to launch ADs.

Your Task: What day of the week do most users register on? Provide insights on when to schedule an ad campaign

select dayofweek(created_at) as dayoftheweek,count(users.id) as accountsRegistered

from users

group by dayoftheweek

order by accountsRegistered desc;

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	dayoftheweek	accountsRegistered
•	5	16
	1	16
	6	15
	3	14
	2	14
	4	13
	7	12

- **B)** Investor Metrics: Our investors want to know if Instagram is performing well and is not becoming redundant like Facebook, they want to assess the app on the following grounds
 - 1. **User Engagement:** Are users still as active and post on Instagram or they are making fewer posts

Your Task: Provide how many times does average user posts on Instagram. Also, provide the total number of photos on Instagram/total number of users

select count(users.id) as Users,count(photos.id) as Photos, count(photos.id)/count(users.id) as Avg_posts

from photos right join users

on users.id=photos.user_id;



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

Your Task: Provide data on users (bots) who have liked every single photo on the site (since any normal user would not be able to do this).

select users.username,users.id,count(photo_id) as liked

from likes, users

where likes.user id = users.id

group by likes.user_id having liked = 257;

	username	id	liked
•	Aniya_Hackett	5	257
	Jaclyn81	14	257
	Rocio33	21	257
•	Maxwell.Halvorson	24	257
	Ollie_Ledner37	36	257
	Mckenna17	41	257
	Duane60	54	257
	Julien_Schmidt	57	257
	Mike.Auer39	66	257
	Nia_Haag	71	257
	Leslie67	75	257
	Janelle.Nikolaus81	76	257
	Bethany20	91	257