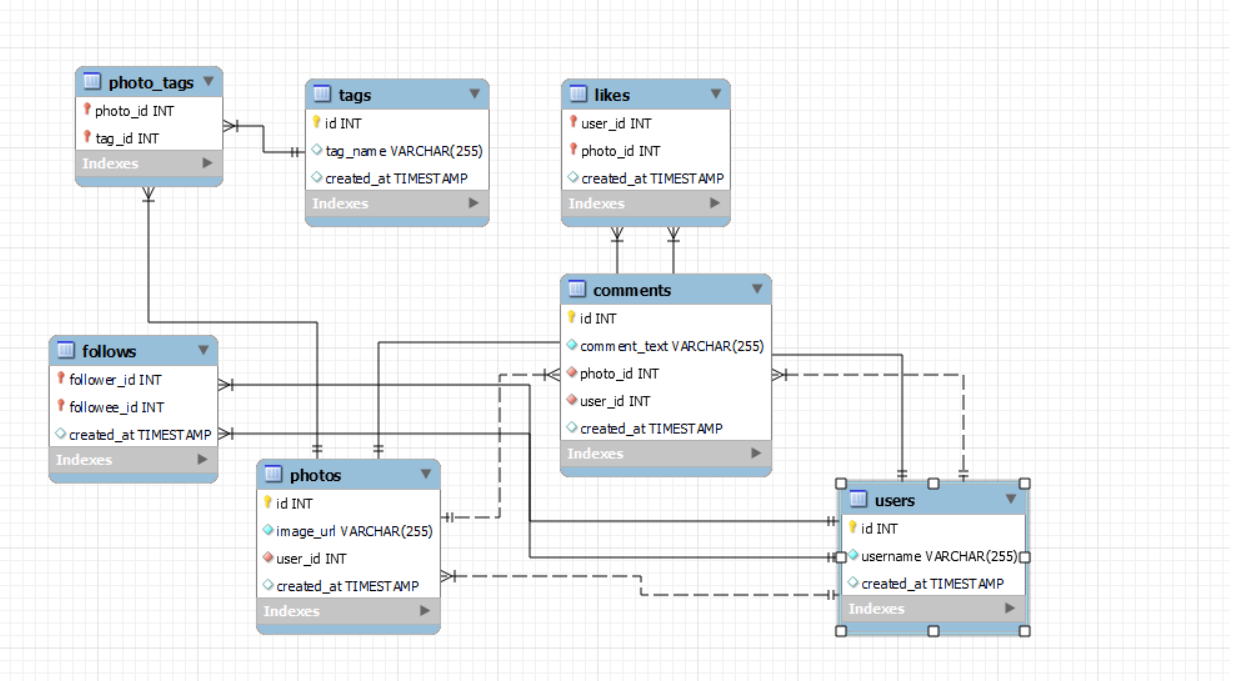
***Mandatory Project Week-3***

***-Nishita Singh***

***USE IG\_clone database:***

1. Create an ER diagram or draw a schema for the given database.

******

***2.*** We want to reward the user who has been around the longest, Find the 5 oldest users.

***use ig\_clone;***

***Select \* from users order by created\_at asc limit 5;***

3. To target inactive users in an email ad campaign, find the users who have never posted a photo.

***Select \* from photos;***

***use ig\_clone;***

***select user\_id from photos;***

***Select id,username from users where id not in (select user\_id from photos);***

4. Suppose you are running a contest to find out who got the most likes on a photo. Find out who won?

***Select \* from likes;***

***create temporary table most\_likeed as(Select photo\_id,count(l.photo\_id) as max\_likes from likes l group by photo\_id order by max\_likes desc limit 1);***

***select p.id,user\_id,username from photos p join most\_likeed ml on p.id=ml.photo\_id join users u on u.id=p.user\_id;***

5. The investors want to know how many times does the average user post.

***Select(Count(Distinct user\_id)) as average\_posts from photos;***

***select count(\*) from photos;***

***Select Count(\*) / Count(Distinct user\_id) AS average\_posts***

***From photos;***

6. A brand wants to know which hashtag to use on a post, and find the top 5 most used hashtags.

***Select \* from tags;***

***select tag\_id,tag\_name,count(tag\_name) as max\_tag from tags t join photo\_tags pt on***

***t.id=pt.tag\_id group by tag\_id,tag\_name order by max\_tag desc,tag\_id limit 5;***

***\*\*By including tag\_id as a secondary sorting criteria, we are instructing the database engine to prioritize the rows with the highest frequency (max\_tags) and, within those rows, order them by the tag\_id in ascending order. This will result in a deterministic and consistent ordering of the tied rows.***

7.To find out if there are bots, find users who have liked every single photo on the site.

***select \* from likes;***

***select username from users u where u.id in (select l.user\_id from likes l group by l.user\_id***

***having count(distinct l.photo\_id)= (select count(\*) from photos));***

8.Find the users who have created instagramid in may and select top 5 newest joinees from it?

***Select \* from users;***

***select username,created\_at from users where month(created\_at)=5 order by created\_at desc limit 5;***

9. Can you help me find the users whose name starts with c and ends with any number and have posted the photos as well as liked the photos?

***select \* from users where username regexp '^c' and username regexp '[0-9]$' and id in***

***(select user\_id from photos p where user\_id in (select user\_id from likes l));***

10. Demonstrate the top 30 usernames to the company who have posted photos in the range of 3 to 5.

***select \* from users u where id in (Select user\_id from photos p group by user\_id having count(\*) between 3 and 5) order by username asc limit 30 ;***

Thankyou!!