

Now, there is two rules for this feature

1. If user follows the searching poster, and be accept. Then user only can see the pictures that is allowed followers to see.
2. If user and poster are in the same group, and user can see all the visible photo in the ShareWith table in that group and posted by the search poster.

First, user are able to see the search function in main page

Homepage

Welcome Back, Zhenggg!

Here are your photos:

Photo	Time Posted
6	2019-12-07 19:44:39
7	2019-12-07 19:44:51

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If user go into find poster picture, then it able to see

Who you want to find

Once user type in name and submit, system will do the query.

Now, we have two users, eleven and eleven2.

For first part

Eleven2 is following the eleven, and eleven accept that by follow statues.

```
mysql> select * from Comments;
+-----+-----+-----+-----+
| username | photoID | comments | commentTime |
+-----+-----+-----+-----+
| eleven   | 5       | test     | 2019-12-05 15:42:48 |
| eleven   | 5       | again    | 2019-12-05 15:42:54 |
| eleven   | 5       | est      | 2019-12-05 15:43:00 |
| eleven2  | 5       | wow, what a nice pict | 2019-12-11 15:00:37 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from Following;
ERROR 1146 (42S02): Table 'finstagram.following' doesn't exist
mysql> select * from Follow;
+-----+-----+-----+
| username_followed | username_follower | followstatus |
+-----+-----+-----+
| bobby             | abby              | 1            |
| bobby             | colleen           | 0            |
| eleven            | eleven2           | 1            |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

This means that eleven2 are able to see eleven' s photo if that photo is open to all follower.

Let' s see which photo of eleven is open to all follower

```
mysql> select * from photo
-> ;
```

photoID	postingdate	filepath	allFollowers	caption	photoPoster
1	2019-12-04 00:00:00	./roommates_b.jpg	1	roommates	bobby
2	2019-12-04 00:00:00	./roommates_a.jpg	1	roommates	abby
3	2019-12-04 00:00:00	./bowling_team.jpg	0	bowlingTeam	bobby
4	2019-12-04 00:00:00	./family_bora_bora.jpg	0	family vasa	abby
5	2019-12-05 10:12:52	WechatIMG11.jpeg	1	NULL	eleven
6	2019-12-07 19:44:39	35328.jpg	1	NULL	eleven2
7	2019-12-07 19:44:51	35329.jpg	1	NULL	eleven2
8	2019-12-08 11:38:40	0.jpeg	1	NULL	eleven
9	2019-12-08 11:38:50	Professional-Licensure-for-Computer-Engineers-and-Software-Engineers.jpg	1	NULL	eleven
10	2019-12-08 11:39:01	WechatIMG11.jpeg	1	NULL	eleven
11	2019-12-08 11:39:14	bsfang.jpg	0	NULL	eleven

```
11 rows in set (0.00 sec)

mysql>
```

As we can see, photo 5, 8, 9, and 10 are open to all follower, but 11 is not open to all follower posted by eleven.

Then if eleven2 search eleven,

This is pic post by your search poster

Photo	Time Posted
5	2019-12-05 10:12:52
8	2019-12-08 11:38:40
9	2019-12-08 11:38:50
10	2019-12-08 11:39:01

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Only 5, 8, 9, 10 are able to see! And 11 is not showing up. So part 1 is success.

For part 2

now, since eleven is not following eleven2, we can use this to test if eleven can search eleven2 in condition 2.

First, we made eleven and eleven2 as in the same group:

```
mysql> select * from BelongTo
-> ;
```

member_username	owner_username	groupName
abby	abby	family
dan	abby	family
abby	abby	roommates
colleen	abby	roommates
bobby	bobby	roommates
dan	bobby	roommates
eleven	eleven2	test
eleven2	eleven2	test

```
8 rows in set (0.00 sec)

mysql>
```

Now, eleven and eleven2 in the same group as that owner is eleven2 and groupName is test

So, now eleven should be able to see eleven2 post if eleven2 share the post with the group

Let' s find what is shared with:

```
mysql> select * from SharedWith;
```

groupOwner	groupName	photoID
eleven2	test	5
eleven2	test	6
eleven2	test	7

```
3 rows in set (0.00 sec)

mysql>
```

We can see here, there three shared photos, 5,6,7. From above picture we can know that eleven2 only post 6, 7. Which means that eleven also shared with group. But the query is not allowed photoID 5 since it is not posted by eleven2.

Let's see if eleven search eleven2

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Now we can see that when eleven search eleven2, it showed all the shared pictures with eleven2 posted! So, part 2 successes.

Now, with this two parts, query also need a OR statement that connect two rules. As following:

SELECT photoID, postingDate **FROM** Photo **WHERE** photoID IN

(part 1)

OR photoID IN

(part 2)

AND photoPoster = %s

If user search them self:

Who you want to find

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As we can see, eleven search itself, it can get all photo posted by eleven proved by above pictures.