```
CREATE DATABASE instagram_clone;
USE instagram clone;
```

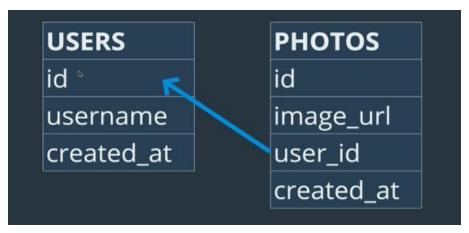
TABLES:

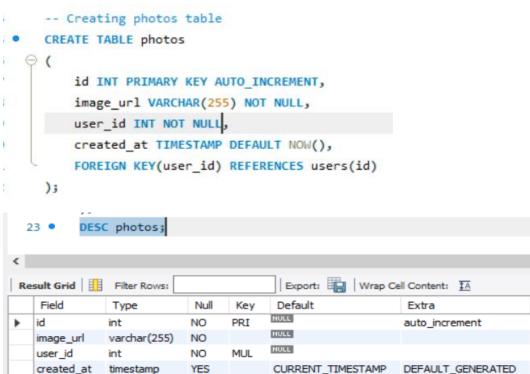
1. Creating users table



```
-- Creating table for users
  CREATE TABLE users
⊖ (
       id INT PRIMARY KEY AUTO_INCREMENT,
       username VARCHAR(255) UNIQUE NOT NULL,
       created_at TIMESTAMP DEFAULT NOW()
  );
 12 •
         DESC users;
Result Grid
                                        Export: Wrap Cell Content: IA
               Filter Rows:
   Field
                                       Default
              Type
                           Null
                                 Key
                                                           Extra
                                       NULL
                          NO
                                 PRI
   id
              int
                                                           auto_increment
                                       NULL
                                 UNI
   username
              varchar(255)
                          NO
                                       CURRENT_TIMESTAMP
                                                           DEFAULT_GENERATED
   created at
              timestamp
```

2. Creating photos table:





3. Creating comments table:



```
-- Creating table for comments

CREATE TABLE comments

(

id INT PRIMARY KEY AUTO_INCREMENT,

comment_text VARCHAR(255) NOT NULL,

user_id INT NOT NULL,

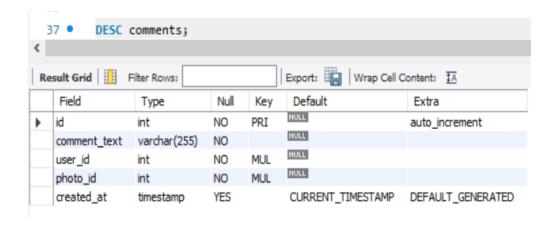
photo_id INT NOT NULL,

created_at TIMESTAMP DEFAULT NOW(),

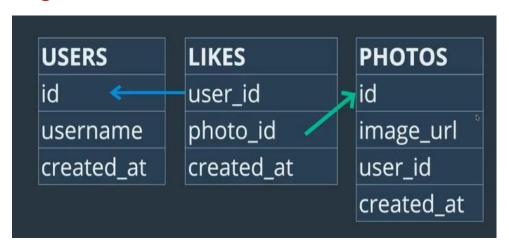
FOREIGN KEY(user_id) REFERENCES users(id),

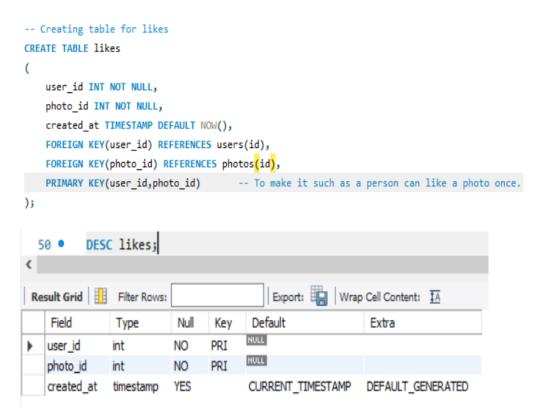
FOREIGN KEY(photo_id) REFERENCES photos(id)

);
```

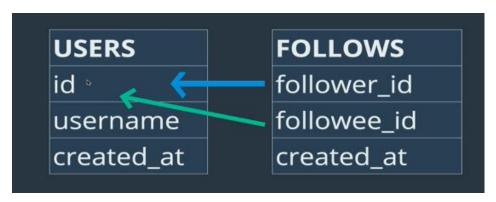


4. Creating table for likes:





5. Creating table for followers



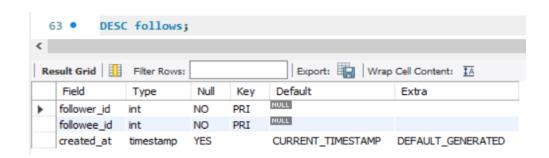
Eg:

| | Users | |
|-------------|------------|--|
| ID | USERNAME | CREATED_AT |
| 1 | Tommy | 2016-10-11 |
| 2 | BlueCat | 2017-01-10 |
| 3 | ColtSteele | 2017-04-04 |
| FOLLOWER ID | Follows | CREATED_AT |
| 3 | 2 | 2017-03-03 |
| 3 | 1 | 2017-04-04 |
| | | in the second se |

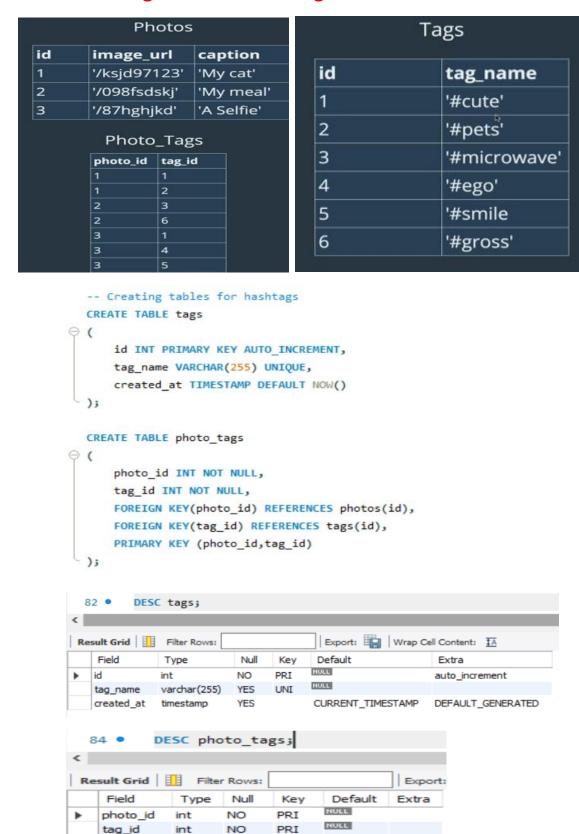
```
-- Creating table for followers

CREATE TABLE follows

(
    follower_id INT NOT NULL,
    followee_id INT NOT NULL,
    created_at TIMESTAMP DEFAULT NOW(),
    FOREIGN KEY (follower_id) REFERENCES users(id),
    FOREIGN KEY (followee_id) REFERENCES users(id),
    PRIMARY KEY (follower_id,followee_id) -- To Check the following to and back only once
);
```



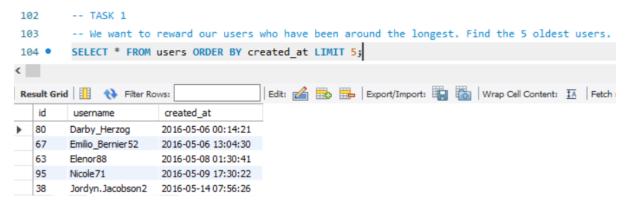
6. Creating table for hashtags



Done all the insertion with the data's from Insertion Data txt file.

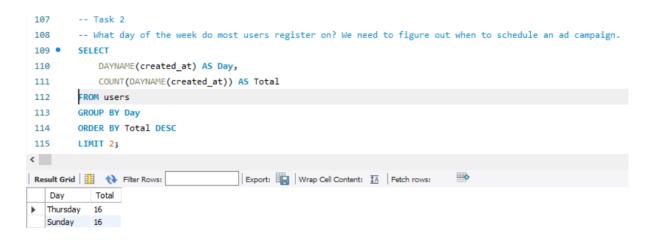
Task 1

We want to reward our users who have been around the longest. Find the 5 oldest users.



Task 2

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



TASK 3

We want to target our inactive users with an email campaign. Find the users who have never posted a photo

```
117 -- TASK 3

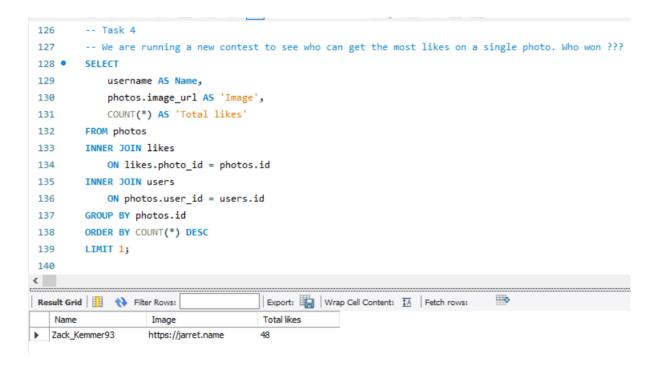
118 -- We want to target our inactive users with an email campaign. Find the users who have never posted a photo
119 • SELECT users.id,username
120 FROM users
121 LEFT JOIN photos
122 ON photos.user_id = users.id
123 WHERE image_url IS NULL
124 ORDER BY users.id;
```

| id | username | |
|----|---------------------|--|
| 5 | Aniya_Hackett | |
| 7 | Kasandra_Homenick | |
| 14 | Jaclyn81 | |
| 21 | Rocio33 | |
| 24 | Maxwell. Halvorson | |
| 25 | Tierra.Trantow | |
| 34 | Pearl7 | |
| 36 | Ollie_Ledner37 | |
| 41 | Mckenna17 | |
| 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 | |
| 81 | Esther.Zulauf61 | |
| 83 | Bartholome.Bernhard | |
| 89 | Jessyca_West | |
| 90 | Esmeralda.Mraz57 | |
| 91 | Bethany20 | |

Total 26 users are inactive or never posted a photo.

TASK 4

We are running a new contest to see who can get the most likes on a single photo. Who won ???

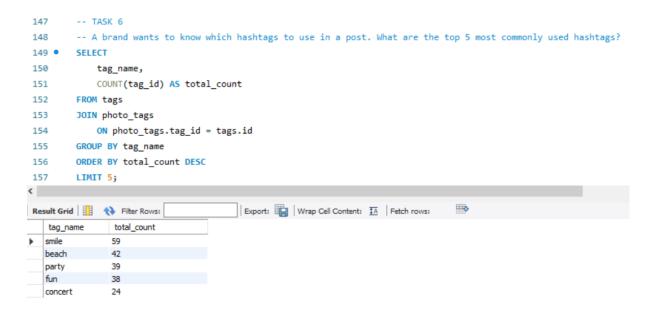


TASK 5

The investors want to know how many times the average user posts.

TASK 6

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



TASK 7

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

