

SQL queries

#5 OLDEST USERS TO SIGN UP

```
SELECT * FROM users
ORDER BY created_at
LIMIT 5
```

#DAY OF THE WEEK WHEN MOST USERS REGISTERED

```
SELECT distinct DAYNAME(created_at) AS registration_day, COUNT() AS registration_count
FROM users
GROUP BY registration_day
ORDER BY registration_count DESC
```

#USERS WHO HAVE NEVER POSTED A PHOTO

```
SELECT username FROM users
WHERE id NOT IN
(SELECT user_id FROM photos)
```

AVERAGE USER POSTS - (TOTAL NUMBER OF PHOTOS/TOTAL NUMBER OF USERS)

```
SELECT ROUND((SELECT COUNT() FROM photos)/(SELECT COUNT() FROM users),2)
```

USER RANKING BY POSTINGS HIGHER TO LOWER

```
SELECT users.username, COUNT(photos.image_url) AS num_postings
FROM users
JOIN photos ON users.id = photos.user_id
GROUP BY users.username
ORDER BY num_postings DESC;
```

TOTAL POSTS BY USERS

```
SELECT COUNT() FROM photos
```

TOTAL NUMBERS OF USERS WHO HAVE POSTED AT LEAST ONE TIME

```
SELECT COUNT(distinct user_id) FROM photos
```

TOP 5 MOST COMMONLY USED HASHTAGS

```
SELECT tags.tag_name, count() FROM tags, photo_tags
WHERE tags.id = photo_tags.tag_id
GROUP BY tags.tag_name
```

USERS WHO HAVE LIKED EVERY SINGLE PHOTO ON THE SITE

```
SELECT users.id, users.username, COUNT(likes.photo_id) AS total_likes_by_user
FROM users
INNER JOIN likes ON users.id = likes.user_id
GROUP BY users.id, users.username
HAVING COUNT(DISTINCT likes.photo_id) = (SELECT COUNT() FROM photos)
```

USERS WHO HAVE NEVER COMMENTED ON A PHOTO

```
SELECT username, 'None' FROM users where id NOT IN (SELECT user_id FROM comments)
```

PERCENTAGE OF USERS WHO HAVE EITHER NEVER COMMENTED ON A PHOTO OR HAVE COMMENTED ON EVERY PHOTO

```
SELECT
  COUNT(DISTINCT CASE WHEN comments_count = 0 OR comments_count = total_photos THEN user_id END) AS
  "Number Of Users who never commented or like every photo",
  ROUND(COUNT(DISTINCT CASE WHEN comments_count = 0 OR comments_count = total_photos THEN user_id
  END) / COUNT(DISTINCT user_id) * 100, 4) AS "%",
  COUNT(DISTINCT CASE WHEN comments_count = total_photos THEN user_id END) AS "Number of Users who like
  every photo"
FROM
  (
    SELECT
      users.id AS user_id,
      COUNT(DISTINCT comments.photo_id) AS comments_count,
      COUNT(DISTINCT photos.id) AS total_photos
    FROM
      users
    LEFT JOIN
      comments ON comments.user_id = users.id
    LEFT JOIN
```

```

        photos ON photos.user_id = users.id
    GROUP BY
        users.id
) AS user_stats;

```

USERS WHO HAVE EVER COMMENTED ON A PHOTO

```

SELECT username,comment_text
FROM users
LEFT JOIN comments ON users.id = comments.user_id
GROUP BY users.id
HAVING comment_text IS NOT NULL;

```

PERCENTAGE OF USERS WHO HAVE EITHER NEVER COMMENTED ON A PHOTO OR HAVE COMMENTED ON PHOTOS BEFORE

```

SELECT tableA.total_A AS 'Number Of Users who never commented',
       (tableA.total_A/(SELECT COUNT() FROM users))100 AS '%',
       tableB.total_B AS 'Number of Users who commented on photos',
       (tableB.total_B/(SELECT COUNT() FROM users))100 AS '%'
FROM
    (
        SELECT COUNT() AS total_A FROM
            (SELECT username,comment_text
             FROM users
              LEFT JOIN comments ON users.id = comments.user_id
              GROUP BY users.id
              HAVING comment_text IS NULL) AS total_number_of_users_without_comments
    ) AS tableA
JOIN
    (
        SELECT COUNT() AS total_B FROM
            (SELECT username,comment_text
             FROM users
              LEFT JOIN comments ON users.id = comments.user_id
              GROUP BY users.id
              HAVING comment_text IS NOT NULL) AS total_number_users_with_comments
    ) AS tableB

```