

Instagram Challenge 1 Solution CODE

Section 15, Lecture 254

-- 1. Finding 5 oldest users

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

Instagram Challenge 2 Solution CODE

Section 15, Lecture 256

-- 2. Most Popular Registration Date

```
SELECT
    DAYNAME(created_at) AS day,
    COUNT(*) AS total
FROM users
GROUP BY day
ORDER BY total DESC
LIMIT 2;
```

Instagram Challenge 3 Solution CODE

Section 15, Lecture 258

-- 3. Identify Inactive Users (users with no photos)

```
SELECT username
FROM users
LEFT JOIN photos
    ON users.id = photos.user_id
WHERE photos.id IS NULL;
```

Instagram Challenge 4 Solution CODE

Section 15, Lecture 260

-- 4. Identify most popular photo (and user who created it)

```
SELECT
    username,
    photos.id,
    photos.image_url,
    COUNT(*) AS total
FROM photos
INNER JOIN likes
    ON likes.photo_id = photos.id
INNER JOIN users
    ON photos.user_id = users.id
GROUP BY photos.id
ORDER BY total DESC
LIMIT 1;
```

Instagram Challenge 5 Solution CODE

Section 15, Lecture 262

-- 5. Calculate average number of photos per user

```
SELECT (SELECT Count(*)  
        FROM   photos) / (SELECT Count(*)  
                           FROM   users) AS avg;
```

Instagram Challenge 6 Solution CODE

Section 15, Lecture 264

-- 6. Find the five most popular hashtags

```
SELECT tags.tag_name,  
       Count(*) AS total  
FROM   photo_tags  
       JOIN tags  
       ON photo_tags.tag_id = tags.id  
GROUP BY tags.id  
ORDER BY total DESC  
LIMIT 5;
```

Instagram Challenge 7 Solution CODE

Section 15, Lecture 266

-- 7. Finding the bots - the users who have liked every single photo

```
SELECT username,  
       Count(*) AS num_likes  
FROM   users  
       INNER JOIN likes  
       ON users.id = likes.user_id  
GROUP BY likes.user_id  
HAVING num_likes = (SELECT Count(*)  
                   FROM   photos);
```