

## Instagram Database Clone

1. Find five oldest users

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

Result Grid	Filter Rows:	
id	username	created_at
80	Darby_Herzog	2016-05-06 00:14:21
67	Emilio_Bernier52	2016-05-06 13:04:30
63	Elenor88	2016-05-08 01:30:41
95	Nicole71	2016-05-09 17:30:22
38	Jordyn.Jacobson2	2016-05-14 07:56:26

2. What day of the week do users register on?

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

Result Grid	Filter Rows:	
day	total	
Thursday	16	
Sunday	16	

3. Identify inactive users with no photos?

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

Result Grid	Filter Rows:	
username	image_url	
Bartholome.Bernhard	NULL	
Bethany20	NULL	
Darby_Herzog	NULL	
David.Osinski47	NULL	
Duane60	NULL	
Esmeralda.Mraz57	NULL	
Esther.Zulauf61	NULL	

4. Find out highest no of like along with username, image\_Url and photo\_id

```
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;
```

Result Grid	Filter Rows:		Exp
username	id	image_url	total
Zack_Kemmer93	145	https://jarret.name	48

5. Calculate average number of photos per user?

SELECT(SELECT count(\*) FROM photos) / (SELECT count(\*) FROM users) as average;

Result Grid	
	average
▶	2.5700

6. What are the 5 most commonly used hashtags?

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

Result Grid		
	tag_name	total
▶	smile	59
	beach	42
	party	39
	fun	38
	concert	24

7. Find users who have liked every single photos?

```
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);
```

Result Grid		
	username	num_likes
▶	Harikrishna Vignesh	257
	Jadlyn81	257
	Rocio33	257
	Maxwell.Halvorson	257
	Ollie_Ledner37	257
	Mckenna17	257
	Duane60	257
	Julian_Schmidt	257