**INSTAGRAM CLONE QUERYING USING MYSQL**

1) We want to reward users who have been around the longest (find the 5 oldest users)

**SELECT \* FROM users**

**ORDER BY created\_at ASC**

**LIMIT 5**

RESULT

|  |  |  |
| --- | --- | --- |
| **ID** | **User name** | **Create\_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 most users register on? (To schedule an ad campaign)

**SELECT DAYNAME(created\_at) AS day, COUNT(\*) AS total FROM users**

**GROUP BY day**

**ORDER BY total DESC**

**LIMIT 2**

RESULT

|  |  |
| --- | --- |
| day | total |
| Thursday | 16 |
| Sunday | 16 |
|  |  |
|  |  |

3) We would like to target our inactive users with an email campaign (users that did not post any photo)

**SELECT \* FROM users**

**LEFT JOIN photos ON**

**users.id = photos.user\_id**

**WHERE photos.id IS NULL**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **id** | **username** | **created\_at** | **id2** | **image\_url** | **user\_id** | **created\_at3** |
| 5 | Aniya\_Hackett | ########### | NULL | NULL | NULL | NULL |
| 7 | Kasandra\_Homenick | ########### | NULL | NULL | NULL | NULL |
| 14 | Jaclyn81 | ########### | NULL | NULL | NULL | NULL |
| 21 | Rocio33 | ########### | NULL | NULL | NULL | NULL |
| 24 | Maxwell.Halvorson | ########### | NULL | NULL | NULL | NULL |
| 25 | Tierra.Trantow | ########### | NULL | NULL | NULL | NULL |
| 34 | Pearl7 | ########### | NULL | NULL | NULL | NULL |
| 36 | Ollie\_Ledner37 | ########### | NULL | NULL | NULL | NULL |
| 41 | Mckenna17 | ########### | NULL | NULL | NULL | NULL |
| 45 | David.Osinski47 | ########### | NULL | NULL | NULL | NULL |
| 49 | Morgan.Kassulke | ########### | NULL | NULL | NULL | NULL |
| 53 | Linnea59 | ########### | NULL | NULL | NULL | NULL |
| 54 | Duane60 | ########### | NULL | NULL | NULL | NULL |
| 57 | Julien\_Schmidt | ########### | NULL | NULL | NULL | NULL |
| 66 | Mike.Auer39 | ########### | NULL | NULL | NULL | NULL |
| 68 | Franco\_Keebler64 | ########### | NULL | NULL | NULL | NULL |
| 71 | Nia\_Haag | ########### | NULL | NULL | NULL | NULL |
| 74 | Hulda.Macejkovic | ########### | NULL | NULL | NULL | NULL |
| 75 | Leslie67 | ########### | NULL | NULL | NULL | NULL |
| 76 | Janelle.Nikolaus81 | ########### | NULL | NULL | NULL | NULL |
| 80 | Darby\_Herzog | ########### | NULL | NULL | NULL | NULL |
| 81 | Esther.Zulauf61 | ########### | NULL | NULL | NULL | NULL |
| 83 | Bartholome.Bernhard | ########### | NULL | NULL | NULL | NULL |
| 89 | Jessyca\_West | ########### | NULL | NULL | NULL | NULL |
| 90 | Esmeralda.Mraz57 | ########### | NULL | NULL | NULL | NULL |
| 91 | Bethany20 | ########### | NULL | NULL | NULL | NULL |

4) We are running a new contest to see who can get the most likes on a single photo (which photo got the most likes)

**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

|  |  |  |  |
| --- | --- | --- | --- |
| username | id | Image\_url | total |
| |  | | --- | | Zack\_Kemmer93 | | 145 | https://jarret.name | 48 |

5) How many times does the average user post?

**SELECT (SELECT COUNT(\*) FROM photos) / (SELECT COUNT(\*) FROM users) as AVERAGE**

Result

|  |
| --- |
| AVERAGE |
| 2.5700 |

6) A brand wants to know which hashtags to use in a post?

(what are the top 5 most commonly used 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**

RESULT

|  |  |
| --- | --- |
| **tag\_name** | **total** |
| smile | 59 |
| beach | 42 |
| party | 39 |
| fun | 38 |
| concert | 24 |

7) We have a small problem with bots on our site..

Find users who liked every single photo on the site

**SELECT username, COUNT(photo\_id) as total FROM users**

**JOIN likes ON**

**likes.user\_id = users.id**

**GROUP BY username**

**HAVING total = (SELECT COUNT(\*) FROM photos)**

RESULT

|  |  |
| --- | --- |
| **username** | **total** |
| Aniya\_Hackett | 257 |
| Bethany20 | 257 |
| Duane60 | 257 |
| Jaclyn81 | 257 |
| Janelle.Nikolaus81 | 257 |
| Julien\_Schmidt | 257 |
| Leslie67 | 257 |
| Maxwell.Halvorson | 257 |
| Mckenna17 | 257 |
| Mike.Auer39 | 257 |
| Nia\_Haag | 257 |
| Ollie\_Ledner37 | 257 |
| Rocio33 | 257 |