**PROJECT CHALLENGES**

mysql> -- FIND 5 OLDEST UDERS

mysql> USE INSTAGRAM\_CLONE\_DB;

Database changed

mysql> SELECT ID, USERNAME,CREATED\_AT

-> FROM USERS

-> ORDER BY CREATED\_AT ASC;

+-----+-----------------------+---------------------+

| 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 |

| 71 | Nia\_Haag | 2016-05-14 15:38:50 |

| 40 | Rafael.Hickle2 | 2016-05-19 09:51:26 |

| 58 | Aurelie71 | 2016-05-31 06:20:57 |

| 88 | Clint27 | 2016-06-02 21:40:10 |

| 91 | Bethany20 | 2016-06-03 23:31:53 |

| 26 | Josianne.Friesen | 2016-06-07 12:47:01 |

| 39 | Kelsi26 | 2016-06-08 17:48:08 |

| 73 | Jaylan.Lakin | 2016-06-10 23:58:52 |

| 9 | Gus93 | 2016-06-24 19:36:31 |

| 69 | Karley\_Bosco | 2016-06-24 23:38:52 |

| 48 | Granville\_Kutch | 2016-06-26 03:10:22 |

| 66 | Mike.Auer39 | 2016-07-01 17:36:15 |

| 92 | Frederik\_Rice | 2016-07-06 21:56:29 |

| 44 | Seth46 | 2016-07-07 11:40:27 |

| 34 | Pearl7 | 2016-07-08 21:42:01 |

| 46 | Malinda\_Streich | 2016-07-09 21:37:08 |

| 41 | Mckenna17 | 2016-07-17 17:25:45 |

| 76 | Janelle.Nikolaus81 | 2016-07-21 09:26:09 |

| 82 | Aracely.Johnston98 | 2016-07-25 18:49:10 |

| 37 | Yazmin\_Mills95 | 2016-07-27 00:56:44 |

| 16 | Annalise.McKenzie16 | 2016-08-02 21:32:46 |

| 36 | Ollie\_Ledner37 | 2016-08-04 15:42:20 |

| 10 | Presley\_McClure | 2016-08-07 16:25:49 |

| 4 | Arely\_Bogan63 | 2016-08-13 01:28:43 |

| 28 | Dario77 | 2016-08-18 07:15:03 |

| 8 | Tabitha\_Schamberger11 | 2016-08-20 02:19:46 |

| 56 | Peter.Stehr0 | 2016-08-22 18:05:42 |

| 50 | Gerard79 | 2016-08-23 19:47:44 |

| 32 | Irwin.Larson | 2016-08-26 19:36:22 |

| 96 | Keenan.Schamberger60 | 2016-08-28 14:57:28 |

| 20 | Delpha.Kihn | 2016-08-31 02:42:30 |

| 47 | Harrison.Beatty50 | 2016-09-02 03:48:38 |

| 29 | Jaime53 | 2016-09-11 18:51:57 |

| 89 | Jessyca\_West | 2016-09-14 23:47:05 |

| 75 | Leslie67 | 2016-09-21 05:14:01 |

| 30 | Kaley9 | 2016-09-23 21:24:20 |

| 31 | Aiyana\_Hoeger | 2016-09-29 20:28:12 |

| 65 | Adelle96 | 2016-10-01 00:37:57 |

| 25 | Tierra.Trantow | 2016-10-03 12:49:21 |

| 15 | Billy52 | 2016-10-05 14:10:20 |

| 43 | Janet.Armstrong | 2016-10-06 07:57:44 |

| 64 | Florence99 | 2016-10-06 23:08:31 |

| 78 | Colten.Harris76 | 2016-10-10 02:38:53 |

| 72 | Kathryn80 | 2016-10-11 09:01:57 |

| 61 | Jayson65 | 2016-10-14 19:10:53 |

| 59 | Cesar93 | 2016-10-18 16:42:43 |

| 18 | Odessa2 | 2016-10-21 18:16:56 |

| 49 | Morgan.Kassulke | 2016-10-30 12:42:31 |

| 94 | Damon35 | 2016-10-31 14:44:27 |

| 79 | Katarina.Dibbert | 2016-11-03 13:14:11 |

| 83 | Bartholome.Bernhard | 2016-11-06 02:31:23 |

| 68 | Franco\_Keebler64 | 2016-11-13 20:09:27 |

| 33 | Yvette.Gottlieb91 | 2016-11-14 12:32:01 |

| 5 | Aniya\_Hackett | 2016-12-07 01:04:39 |

| 99 | Alek\_Watsica | 2016-12-10 07:43:58 |

| 42 | Maya.Farrell | 2016-12-11 18:04:45 |

| 7 | Kasandra\_Homenick | 2016-12-12 06:50:08 |

| 62 | Ressie\_Stanton46 | 2016-12-20 15:09:09 |

| 54 | Duane60 | 2016-12-21 04:43:38 |

| 22 | Kenneth64 | 2016-12-27 09:48:17 |

| 52 | Zack\_Kemmer93 | 2017-01-01 05:58:22 |

| 84 | Alysa22 | 2017-01-01 17:44:43 |

| 77 | Donald.Fritsch | 2017-01-07 10:05:41 |

| 81 | Esther.Zulauf61 | 2017-01-14 17:02:34 |

| 12 | Dereck65 | 2017-01-19 01:34:14 |

| 21 | Rocio33 | 2017-01-23 11:51:15 |

| 23 | Eveline95 | 2017-01-23 23:14:19 |

| 74 | Hulda.Macejkovic | 2017-01-25 17:17:28 |

| 98 | Imani\_Nicolas17 | 2017-01-31 22:59:34 |

| 57 | Julien\_Schmidt | 2017-02-02 23:12:48 |

| 45 | David.Osinski47 | 2017-02-05 21:23:37 |

| 17 | Norbert\_Carroll35 | 2017-02-06 22:05:43 |

| 14 | Jaclyn81 | 2017-02-06 23:29:16 |

| 53 | Linnea59 | 2017-02-07 07:49:34 |

| 97 | Tomas.Beatty93 | 2017-02-11 11:38:55 |

| 93 | Willie\_Leuschke | 2017-02-15 01:40:53 |

| 1 | Kenton\_Kirlin | 2017-02-16 18:22:11 |

| 3 | Harley\_Lind18 | 2017-02-21 11:12:33 |

| 87 | Rick29 | 2017-02-24 11:25:08 |

| 90 | Esmeralda.Mraz57 | 2017-03-03 11:52:27 |

| 27 | Darwin29 | 2017-03-18 03:10:07 |

| 86 | Delfina\_VonRueden68 | 2017-03-21 12:02:14 |

| 100 | Javonte83 | 2017-03-27 22:06:37 |

| 13 | Alexandro35 | 2017-03-29 17:09:02 |

| 35 | Lennie\_Hartmann40 | 2017-03-30 03:25:22 |

| 60 | Sam52 | 2017-03-30 22:03:45 |

| 2 | Andre\_Purdy85 | 2017-04-02 17:11:21 |

| 55 | Meggie\_Doyle | 2017-04-04 12:17:34 |

| 70 | Erick5 | 2017-04-05 23:44:47 |

| 51 | Mariano\_Koch3 | 2017-04-17 14:14:46 |

| 24 | Maxwell.Halvorson | 2017-04-18 02:32:44 |

| 19 | Hailee26 | 2017-04-29 18:53:40 |

| 85 | Milford\_Gleichner42 | 2017-04-30 07:50:51 |

| 6 | Travon.Waters | 2017-04-30 13:26:14 |

| 11 | Justina.Gaylord27 | 2017-05-04 16:32:16 |

+-----+-----------------------+---------------------+

100 rows in set (0.00 sec)

mysql> SELECT \* FROM USERS

-> ORDER BY CREATED\_AT

-> LIMIT 5;

+----+------------------+---------------------+

| 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 |

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5 rows in set (0.00 sec)

mysql> -- WHAT DAYS OF THE WEEK DO MOST USERS REGISTER ON?

mysql> SELECT

-> DAYNAME(CREATED\_AT) AS DAY\_OF\_THE\_WEEK,

-> COUNT(\*) AS TOTAL\_COUNT

-> FROM USERS

-> GROUP BY DAY\_OF\_THE\_WEEK

-> ORDER BY TOTAL\_COUNT DESC;

+-----------------+-------------+

| DAY\_OF\_THE\_WEEK | TOTAL\_COUNT |

+-----------------+-------------+

| Thursday | 16 |

| Sunday | 16 |

| Friday | 15 |

| Tuesday | 14 |

| Monday | 14 |

| Wednesday | 13 |

| Saturday | 12 |

+-----------------+-------------+

7 rows in set (0.00 sec)

mysql> -- FIND THE USERS WHO HAVE NEVER POSTED A PHOTO?

mysql> SELECT

-> USERS.ID,USERNAME,

-> USERS.CREATED\_AT AS USER\_JOINING\_DATE

-> FROM USERS

-> LEFT JOIN PHOTOS

-> ON USERS.ID = PHOTOS.USER\_ID

-> WHERE PHOTOS.USER\_ID IS NULL;

+----+---------------------+---------------------+

| ID | USERNAME | USER\_JOINING\_DATE |

+----+---------------------+---------------------+

| 5 | Aniya\_Hackett | 2016-12-07 01:04:39 |

| 7 | Kasandra\_Homenick | 2016-12-12 06:50:08 |

| 14 | Jaclyn81 | 2017-02-06 23:29:16 |

| 21 | Rocio33 | 2017-01-23 11:51:15 |

| 24 | Maxwell.Halvorson | 2017-04-18 02:32:44 |

| 25 | Tierra.Trantow | 2016-10-03 12:49:21 |

| 34 | Pearl7 | 2016-07-08 21:42:01 |

| 36 | Ollie\_Ledner37 | 2016-08-04 15:42:20 |

| 41 | Mckenna17 | 2016-07-17 17:25:45 |

| 45 | David.Osinski47 | 2017-02-05 21:23:37 |

| 49 | Morgan.Kassulke | 2016-10-30 12:42:31 |

| 53 | Linnea59 | 2017-02-07 07:49:34 |

| 54 | Duane60 | 2016-12-21 04:43:38 |

| 57 | Julien\_Schmidt | 2017-02-02 23:12:48 |

| 66 | Mike.Auer39 | 2016-07-01 17:36:15 |

| 68 | Franco\_Keebler64 | 2016-11-13 20:09:27 |

| 71 | Nia\_Haag | 2016-05-14 15:38:50 |

| 74 | Hulda.Macejkovic | 2017-01-25 17:17:28 |

| 75 | Leslie67 | 2016-09-21 05:14:01 |

| 76 | Janelle.Nikolaus81 | 2016-07-21 09:26:09 |

| 80 | Darby\_Herzog | 2016-05-06 00:14:21 |

| 81 | Esther.Zulauf61 | 2017-01-14 17:02:34 |

| 83 | Bartholome.Bernhard | 2016-11-06 02:31:23 |

| 89 | Jessyca\_West | 2016-09-14 23:47:05 |

| 90 | Esmeralda.Mraz57 | 2017-03-03 11:52:27 |

| 91 | Bethany20 | 2016-06-03 23:31:53 |

+----+---------------------+---------------------+

26 rows in set (0.00 sec)

mysql> -- WE ARE RUNNING A NEW CONTEST TO SEE WHO CAN GET THE MORE LIKES ON A SINGLE PHOTO?

mysql> SELECT

-> USERS.ID AS USER\_ID,

-> USERNAME,

-> PHOTOS.ID AS PHOTO\_ID,

-> PHOTOS.IMAGE\_URL,

-> COUNT(\*) AS TOTAL\_LIKES\_COUNT

-> FROM PHOTOS

-> JOIN LIKES

-> ON PHOTOS.ID = LIKES.PHOTO\_ID

-> JOIN USERS

-> ON USERS.ID = PHOTOS.USER\_ID

-> GROUP BY PHOTOS.ID

-> ORDER BY TOTAL\_LIKES\_COUNT DESC

-> LIMIT 1;

+---------+---------------+----------+---------------------+-------------------+

| USER\_ID | USERNAME | PHOTO\_ID | IMAGE\_URL | TOTAL\_LIKES\_COUNT |

+---------+---------------+----------+---------------------+-------------------+

| 52 | Zack\_Kemmer93 | 145 | https://jarret.name | 48 |

+---------+---------------+----------+---------------------+-------------------+

1 row in set (0.01 sec)

mysql> -- HOW MANY TIME DOES THE AVERAGE USER POST?

mysql> SELECT ROUND(

-> (SELECT COUNT(\*) FROM PHOTOS) / (SELECT COUNT(\*) FROM USERS)

-> ) AS AVG\_USERS\_POST;

+----------------+

| AVG\_USERS\_POST |

+----------------+

| 3 |

+----------------+

1 row in set (0.00 sec)

mysql> -- WHAT ARE THE TOP 5 MOST COMMONLY USED HASHTAGS?

mysql> SELECT

-> TAGS.ID AS TAG\_ID,

-> TAGS.TAG\_NAME,

-> COUNT(\*) AS TOTAL\_TAGS\_COUNT

-> FROM TAGS

-> JOIN PHOTO\_TAGS

-> ON TAGS.ID = PHOTO\_TAGS.TAG\_ID

-> GROUP BY TAGS.ID

-> ORDER BY TOTAL\_TAGS\_COUNT DESC

-> LIMIT 5;

+--------+----------+------------------+

| TAG\_ID | TAG\_NAME | TOTAL\_TAGS\_COUNT |

+--------+----------+------------------+

| 21 | smile | 59 |

| 20 | beach | 42 |

| 17 | party | 39 |

| 13 | fun | 38 |

| 18 | concert | 24 |

+--------+----------+------------------+

5 rows in set (0.00 sec)

mysql> -- FIND THE NUMBER OF USERS WHO HAVE LIKED EVERY SINGLE PHOTO ON THE SITE?

mysql> SELECT

-> USERS.ID AS USER\_ID,

-> USERS.USERNAME,

-> COUNT(\*) AS TOTAL\_USER\_LIKES

-> FROM USERS

-> JOIN LIKES

-> ON USERS.ID = LIKES.USER\_ID

-> GROUP BY USERS.ID

-> HAVING TOTAL\_USER\_LIKES = (

-> SELECT COUNT(\*) FROM PHOTOS

-> );

+---------+--------------------+------------------+

| USER\_ID | USERNAME | TOTAL\_USER\_LIKES |

+---------+--------------------+------------------+

| 5 | Aniya\_Hackett | 257 |

| 14 | Jaclyn81 | 257 |

| 21 | Rocio33 | 257 |

| 24 | Maxwell.Halvorson | 257 |

| 36 | Ollie\_Ledner37 | 257 |

| 41 | Mckenna17 | 257 |

| 54 | Duane60 | 257 |

| 57 | Julien\_Schmidt | 257 |

| 66 | Mike.Auer39 | 257 |

| 71 | Nia\_Haag | 257 |

| 75 | Leslie67 | 257 |

| 76 | Janelle.Nikolaus81 | 257 |

| 91 | Bethany20 | 257 |

+---------+--------------------+------------------+

13 rows in set (0.01 sec)