

Last login: Wed Apr 8 12:11:42 on tty001
Serhiis-MacBook-Pro:~ serhi\$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 19
Server version: 8.0.19 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql>
mysql>
mysql>
mysql> CREATE DATABASE instagram_clone;
Query OK, 1 row affected (0.01 sec)

mysql> USE instagram_clone;
Database changed
mysql>
mysql> SELECT DATABASE;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1
mysql> SELECT database;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1
mysql> SELECT database();
```

```
-----+-----+
| database() |
+-----+-----+
| instagram_clone |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql>
mysql>
mysql>
mysql> SELECT DATABASE();
-----+-----+
| DATABASE() |
+-----+-----+
| instagram_clone |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql>
mysql>
mysql>
mysql> CREATE TABLE users (
-> id INTEGER AUTO_INCREMENT PRIMARY KEY,
-> username VARCHAR(255) UNIQUE NOT NULL,
-> created_at TIMESTAMP DEFAULT NOW()
-> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql>
mysql>
mysql> DESCRIBE users;
-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int | NO | PRI | NULL | auto_increment |
| username | varchar(255) | NO | UNI | NULL | |
| created_at | timestamp | YES | | CURRENT_TIMESTAMP | DEFAULT_GENERATED |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql>
mysql>
mysql>
mysql> CREATE TABLE photos (
-> id INTEGER AUTO_INCREMENT PRIMARY KEY,
-> image_url VARCHAR(255) NOT NULL,
-> user_id INTEGER NOT NULL,
-> created_at TIMESTAMP DEFAULT NOW(),
-> FOREIGN KEY(user_id) REFERENCES users(id)
-> );
Query OK, 0 rows affected (0.01 sec)
```

```
mysql>
mysql>
mysql>
mysql> DESCRIBE photos;
-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int | NO | PRI | NULL | auto_increment |
| image_url | varchar(255) | NO | | NULL | |
| user_id | int | NO | MUL | NULL | |
| created_at | timestamp | YES | | CURRENT_TIMESTAMP | DEFAULT_GENERATED |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql>
mysql>
mysql>
mysql>
mysql> CREATE TABLE comments (
-> id INTEGER AUTO_INCREMENT PRIMARY KEY,
-> comment_text VARCHAR(255) NOT NULL,
-> photo_id INTEGER NOT NULL,
-> user_id INTEGER NOT NULL,
-> created_at TIMESTAMP DEFAULT NOW(),
-> FOREIGN KEY(photo_id) REFERENCES photos(id),
-> FOREIGN KEY(user_id) REFERENCES users(id)
-> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql>
mysql>
mysql>
mysql> CREATE TABLE likes (
-> user_id INTEGER NOT NULL,
-> photo_id INTEGER NOT NULL,
-> created_at TIMESTAMP DEFAULT NOW(),
-> FOREIGN KEY(user_id) REFERENCES users(id),
-> FOREIGN KEY(photo_id) REFERENCES photos(id),
-> PRIMARY KEY(user_id, photo_id)
-> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql>
mysql>
mysql>
mysql> CREATE TABLE follows (
-> follower_id INTEGER NOT NULL,
-> followee_id INTEGER NOT NULL,
-> created_at TIMESTAMP DEFAULT NOW(),
-> FOREIGN KEY(follower_id) REFERENCES users(id),
-> FOREIGN KEY(followee_id) REFERENCES users(id),
-> PRIMARY KEY(follower_id, followee_id)
-> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql>
mysql>
mysql>
mysql>
mysql> CREATE TABLE tags (
-> id INTEGER AUTO_INCREMENT PRIMARY KEY,
-> tag_name VARCHAR(255) UNIQUE,
-> created_at TIMESTAMP DEFAULT NOW()
-> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> CREATE TABLE photo_tags (
-> photo_id INTEGER NOT NULL,
-> tag_id INTEGER NOT NULL,
-> FOREIGN KEY(photo_id) REFERENCES photos(id),
-> FOREIGN KEY(tag_id) REFERENCES tags(id),
-> PRIMARY KEY(photo_id, tag_id)
-> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql>
mysql>
mysql>
mysql>
mysql> select * from users;
Empty set (0.01 sec)
```

```
mysql>
mysql> select * from users;
-----+-----+-----+
| id | username | created_at |
+-----+-----+-----+
| 1 | Kanton_Kirlin | 2017-02-16 18:22:11 |
| 2 | Andre_Purdy85 | 2017-04-02 17:11:21 |
| 3 | Harley_Lind18 | 2017-02-21 11:12:33 |
+-----+-----+-----+
```

4	Arely_Bogan63	2016-08-13 01:28:43
5	Aniya_Hackett	2016-12-07 01:04:39
6	Travon_Waters	2017-04-30 13:26:14
7	Kassandra_Homenick	2016-12-12 06:50:08
8	Tabitha_Schamberger11	2016-08-20 02:19:46
9	Gus93	2016-06-24 19:36:31
10	Presley_McClure	2016-08-07 16:25:49
11	Justina_Gaylord27	2017-05-04 16:32:16
12	Dereck65	2017-01-19 01:34:14
13	Alexandro35	2017-03-29 17:09:02
14	Jaclyn81	2017-02-06 23:29:16
15	Billy52	2016-10-05 14:10:20
16	Annalise.McKenzie16	2016-08-02 21:32:46
17	Norbert_Carroll35	2017-02-06 22:05:43
18	Odesse2	2016-10-21 18:16:56
19	Hallee26	2017-04-29 18:53:40
20	Delpha_Kihn	2016-08-31 02:42:30
21	Rocio33	2017-01-23 11:51:15
22	Kenneth64	2016-12-27 09:48:17
23	Eveline95	2017-01-23 23:14:19
24	Maxwell_Halvorson	2017-04-18 02:32:44
25	Tierra_Trantow	2016-10-03 12:49:21
26	Josianne_Friesen	2016-06-07 12:47:01
27	Darwin29	2017-03-18 03:10:07
28	Dario77	2016-08-18 07:15:03
29	Jaime53	2016-09-11 18:51:57
30	Kaley9	2016-09-23 21:24:20
31	Aiyana_Hoeger	2016-09-29 20:28:12
32	Irwin_Larson	2016-08-26 19:36:22
33	Yvette_Gottlieb91	2016-11-14 12:32:01
34	Pearl7	2016-07-08 21:42:01
35	Lennie_Hartmann40	2017-03-30 03:25:22
36	Ollie_Ledner37	2016-08-04 15:42:20
37	Yazmin_Mills95	2016-07-27 00:56:44
38	Jordyn_Jacobson2	2016-05-14 07:56:26
39	Kelsi26	2016-06-08 17:48:08
40	Rafael_Hickle2	2016-05-19 09:51:26
41	McKenna17	2016-07-17 17:25:45
42	Maya_Farrell	2016-12-11 18:04:45
43	Janet_Armstrong	2016-10-06 07:07:52
44	Seth46	2016-07-07 11:40:27
45	David.Osinski47	2017-02-05 21:23:37
46	Malinda_Streich	2016-07-09 21:37:08
47	Harrison_Beaty50	2016-09-02 03:14:38
48	Granville_Kutch	2016-06-26 03:10:22
49	Morgan_Kassulke	2016-10-30 12:42:31
50	Gerard79	2016-08-23 19:47:44
51	Mariano_Koch3	2017-04-17 14:14:46
52	Zack_Kemmer93	2017-01-01 05:05:22
53	Linnea59	2017-02-07 07:49:34
54	Duane60	2016-12-21 04:43:30
55	Meggie_Doyle	2017-04-04 12:17:34
56	Peter.Stehr0	2016-08-22 18:05:42
57	Julien_Schmidt	2017-02-02 23:12:48
58	Aurelie71	2016-05-31 06:20:57
59	Cesar93	2016-10-18 16:42:43
60	Sam52	2017-03-30 22:03:45
61	Jayson65	2016-10-14 19:10:53
62	Ressie_Stanton46	2016-12-20 15:09:09
63	Elenor88	2016-05-08 01:30:41
64	Florence99	2016-10-06 23:08:31
65	Adelle96	2016-10-01 00:37:57
66	Mike.Auer39	2016-07-01 17:36:15
67	Emilio_Bernier52	2016-05-06 13:04:30
68	Franco_Keebler64	2016-11-13 20:09:27
69	Karley_Bosco	2016-05-24 23:38:52
70	Erick5	2017-04-05 23:44:47
71	Nia_Haag	2016-05-14 15:38:50
72	Kathryn80	2016-10-11 09:01:57
73	Jaylan_Lakin	2016-04-10 23:58:52
74	Hulda.Macejkovic	2017-01-25 17:17:28
75	Leslie67	2016-09-21 05:14:01
76	Janelle.Nikolaus81	2016-07-21 09:16:09
77	Donald.Fritsch	2017-01-07 10:05:41
78	Colten.Harris76	2016-10-10 02:38:53
79	Katarina_Dibbert	2016-11-03 13:14:11
80	Darby_Herzog	2016-05-06 00:14:21
81	Esther.Zulauf61	2017-01-14 17:02:34
82	Aracely.Johnston98	2016-07-25 18:49:10
83	Bartholome_Bernhard	2016-11-06 02:31:23
84	Alysa22	2017-01-01 17:44:43
85	Milford_Gleichner42	2017-04-30 07:50:51
86	DelFina_VonRueden68	2017-03-21 12:02:14
87	Rick29	2017-02-24 11:25:08
88	Clint27	2016-06-02 21:40:10
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
92	Frederik_Rice	2016-07-06 21:56:29
93	Willie_Leuschke	2017-02-15 01:40:53
94	Damon35	2016-10-31 14:44:27
95	Nicole71	2016-05-09 17:30:22
96	Keenan.Schamberger60	2016-08-28 14:57:28
97	Tomas_Beaty93	2017-02-11 11:38:55
98	Imani_Nicolas17	2017-01-31 22:59:34
99	Alek_Watsica	2016-12-10 07:43:58
100	Javonte83	2017-03-27 22:06:37

100 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
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

5 rows in set (0.00 sec)

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

day	total
Thursday	16
Sunday	16

2 rows in set (0.01 sec)

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

username
Aniya_Hackett
Bartholome_Bernhard
Bethany20
Darby_Herzog
David.Osinski47
Duane60
Esmeralda_Mraz57
Esther.Zulauf61
Franco_Keebler64
Hulda.Macejkovic
Jaclyn81
Janelle.Nikolaus81
Jessyca_West
Julien_Schmidt
Kassandra_Homenick
Leslie67
Linnea59
Maxwell_Halvorson
McKenna17
Mike.Auer39
Morgan.Kassulke
Nia_Haag
Ollie_Ledner37
Pearl7

```

| Rocio33 |
| Tierra.Trantow |
+-----+
26 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> 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;
+-----+
| username | id | image_url | total |
+-----+
| Zack_Kemmer93 | 145 | https://jarret.name | 48 |
+-----+
1 row in set (0.01 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT (SELECT Count(*)
->             FROM photos) / (SELECT Count(*)
->             FROM users) AS avg;
+-----+
| avg |
+-----+
| 2.5700 |
+-----+
1 row in set (0.01 sec)

mysql>
mysql>
mysql>
mysql>
mysql> 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;
+-----+
| tag_name | total |
+-----+
| smile | 69 |
| beach | 42 |
| party | 39 |
| fun | 38 |
| concert | 24 |
+-----+
5 rows in set (0.01 sec)

mysql>
mysql>
mysql>
mysql>
mysql> 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);
+-----+
| username | num_likes |
+-----+
| Aniya_Hackett | 257 |
| Bethany20 | 257 |
| Duane69 | 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 |
+-----+
13 rows in set (0.01 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>

```