

localhost\sma\ - HeidiSQL 12.1.0.6537

File Edit Search Query Tools Go to Help

Database filter Table filter

Host: 127.0.0.1 Database: sma Query\* Query #2\* Query #3\* Query #4\* Query #5\* Query #6\*

Database filter Table filter

Database: sma 368.0 KiB

- phpbasics
- phpform
- project
- schooldb
- seo\_project
- seturtip
- seturtrip
- sma 368.0 KiB
  - comments 48.0 KiB
  - likes 224.0 KiB
  - likes\_after\_insert
  - posts 64.0 KiB
  - prevent\_self\_like
  - users 32.0 KiB
  - v\_author\_leaderboard
  - v\_daily\_leaders
  - v\_post\_engagement
  - v\_rank\_all\_time
  - v\_top\_posts\_last\_30d
  - v\_top\_posts\_last\_7d

```
10 --
11
12 */
13 -- 1) SCHEMA & TABLES -----
14 DROP DATABASE IF EXISTS sma;
15 CREATE DATABASE sma;
16 USE sma;
17
18
19 CREATE TABLE users (
20 user_id BIGINT AUTO_INCREMENT PRIMARY KEY,
21 username VARCHAR(100) NOT NULL UNIQUE,
22 full_name VARCHAR(255),
23
24 created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP
25 );
26 CREATE TABLE posts (
27 post_id BIGINT AUTO_INCREMENT PRIMARY KEY,
28 author_id BIGINT NOT NULL,
29 content TEXT NOT NULL,
30 created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
31 like_count INT NOT NULL DEFAULT 0,
32 comment_count INT NOT NULL DEFAULT 0,
33 FOREIGN KEY (author_id) REFERENCES users(user_id) ON DELETE CASCADE
34 );
35
```

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- sys

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13 -- 1) SCHEMA & TABLES -----
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21 username VARCHAR(100) NOT NULL UNIQUE,
22 full_name VARCHAR(255),
23
24 created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP
25 );
26 */
27 SELECT * FROM users;
28
```

user_id	userna...	full_name	created_at
1	user1	User 1	2025-05-...
2	user2	User 2	2025-05-...
3	user3	User 3	2025-05-...
4	user4	User 4	2025-05-...
5	user5	User 5	2025-05-...
6	user6	User 6	2025-05-...
7	user7	User 7	2025-05-...
8	user8	User 8	2025-05-...
9	user9	User 9	2025-05-...
10	user10	User 10	2025-05-...

```
39 SELECT * FROM information_schema.REFERENTIAL_CONSTRAINTS WHERE CONSTRAINT_SCHEMA='sma' AND TABLE_NAME='users' AND REFERENCED_TABLE_NAME IS NOT NULL;
40 SELECT * FROM information_schema.KEY_COLUMN_USAGE WHERE TABLE_SCHEMA='sma' AND TABLE_NAME='users' AND REFERENCED_TABLE_NAME IS NOT NULL;
41 SHOW ENGINES;
42 SHOW COLLATION;
43 SHOW CREATE TABLE `sma`.`users`;
44 SELECT tc.CONSTRAINT_NAME, cc.CHECK_CLAUSE FROM `information_schema`.`CHECK_CONSTRAINTS` AS cc, `information_schema`.`TABLE_CONSTRAINTS` AS tc WHERE tc.CONSTRAINT_NAME=cc.CONSTRAINT_NAME;
45 /* - CONTENTS -- 1) Schema & Tables -- 2) Sample Data (realistic activities) -- 3) Views (top posts, engagement scores) -- 4) Window-function Rankings -
46 /* CREATE TABLE posts ( post_id BIGINT AUTO_INCREMENT PRIMARY KEY, author_id BIGINT NOT NULL, content TEXT NOT NULL, created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP );
47 /* Affected rows: 0 Found rows: 20 Warnings: 0 Duration for 2 queries: 0.031 sec. */
```

r31 : c1 (7.3 KiB) Connected: 00:56 h MySQL 8.0.39 Optim

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```
28  
29 /*  
30  
31  
32 CREATE TABLE posts (  
33 post_id BIGINT AUTO INCREMENT PRIMARY KEY,  
34 author_id BIGINT NOT NULL,  
35 content TEXT NOT NULL,  
36 created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,  
37 like_count INT NOT NULL DEFAULT 0,  
38 comment_count INT NOT NULL DEFAULT 0,  
39 FOREIGN KEY (author_id) REFERENCES users(user_id) ON DELETE CASCADE  
40 );  
41 */  
42 SELECT * FROM posts;  
43 /*  
44  
45  
46 CREATE TABLE Likes (  
47 like_id BIGINT AUTO INCREMENT PRIMARY KEY,  
48 post_id BIGINT NOT NULL,  
49 user_id BIGINT NOT NULL,  
50 created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,  
51 UNIQUE KEY unique_Like (post_id, user_id),  
52 FOREIGN KEY (post_id) REFERENCES posts(post_id) ON DELETE CASCADE,  
53 FOREIGN KEY (user_id) REFERENCES users(user_id) ON DELETE CASCADE  
54 );  
55  
56 SELECT * FROM likes;  
57  
58 CREATE TABLE comments (  
59 comment_id BIGINT AUTO INCREMENT PRIMARY KEY,  
60 post_id BIGINT NOT NULL,  
61 user_id BIGINT NOT NULL,  
62 content TEXT NOT NULL,  
63 created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,  
64 FOREIGN KEY (post_id) REFERENCES posts(post_id) ON DELETE CASCADE,  
65 FOREIGN KEY (user_id) REFERENCES users(user_id) ON DELETE CASCADE  
66 );  
67  
68 SELECT * FROM comments;
```

post_id	author...	content	create...	like_count	comment...
1	12	Post #1 ...	2025-08-...	6	2
2	12	Post #2 ...	2025-07-...	7	2
3	19	Post #3 ...	2025-08-...	5	2
4	9	Post #4 ...	2025-07-...	6	0
5	12	Post #5 ...	2025-07-...	4	0
6	16	Post #6 ...	2025-08-...	8	1
7	15	Post #7 ...	2025-08-...	5	1
8	17	Post #8 ...	2025-07-...	6	1
9	1	Post #9 ...	2025-07-...	6	1
10	9	Post #1...	2025-07-...	7	1

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```
40 );  
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42  
43 CREATE TABLE Likes (  
44 like_id BIGINT AUTO INCREMENT PRIMARY KEY,  
45 post_id BIGINT NOT NULL,  
46 user_id BIGINT NOT NULL,  
47 created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,  
48 UNIQUE KEY unique_Like (post_id, user_id),  
49 FOREIGN KEY (post_id) REFERENCES posts(post_id) ON DELETE CASCADE,  
50 FOREIGN KEY (user_id) REFERENCES users(user_id) ON DELETE CASCADE  
51 );  
52  
53 SELECT * FROM likes;  
54 /*  
55  
56 CREATE TABLE comments (  
57 comment_id BIGINT AUTO INCREMENT PRIMARY KEY,  
58 post_id BIGINT NOT NULL,  
59 user_id BIGINT NOT NULL,  
60 content TEXT NOT NULL,  
61 created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,  
62 FOREIGN KEY (post_id) REFERENCES posts(post_id) ON DELETE CASCADE,  
63 FOREIGN KEY (user_id) REFERENCES users(user_id) ON DELETE CASCADE  
64 );  
65  
66 SELECT * FROM comments;
```

like_id	post_id	user_id	created_at
1	1	11	2025-08-27 20:46:21
2	1	1	2025-08-26 15:46:21
3	2	10	2025-07-18 17:46:21
4	2	3	2025-07-18 17:46:21
5	2	11	2025-07-18 11:46:21
6	3	15	2025-08-05 00:46:21
7	3	14	2025-08-04 20:46:21
8	3	4	2025-08-04 13:46:21
9	4	5	2025-07-17 20:46:21
10	4	18	2025-07-17 03:46:21

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```
52  
53  
54 CREATE TABLE comments (  
55 comment_id BIGINT AUTO_INCREMENT PRIMARY KEY,  
56 post_id BIGINT NOT NULL,  
57 user_id BIGINT NOT NULL,  
58 content TEXT NOT NULL,  
59 created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,  
60 FOREIGN KEY (post_id) REFERENCES posts(post_id) ON DELETE CASCADE,  
61 FOREIGN KEY (user_id) REFERENCES users(user_id) ON DELETE CASCADE  
62 );  
63  
64 */  
65 SELECT * FROM comments;  
66  
67 /*  
68 -- 2) SAMPLE DATA -----  
69 INSERT INTO users (username, full_name, created_at)  
70 SELECT CONCAT('user', a), CONCAT('User ', a), DATE_SUB(NOW(), INTERVAL (120-a) DAY)
```

comments (174r x 5c)

comm...	post_id	user_id	content	created_at
1	1	7	Great point on post 1	2025-08-...
2	1	14	Great point on post 1	2025-08-...
3	2	12	Great point on post 2	2025-07-...
4	2	10	Great point on post 2	2025-07-...
5	3	14	Great point on post 3	2025-08-...
6	3	7	Great point on post 3	2025-08-...
7	6	17	Great point on post 6	2025-08-...
8	7	10	Great point on post 7	2025-08-...
9	8	18	Great point on post 8	2025-07-...
10	9	4	Great point on post 9	2025-07-...