-- Create database instagram;

use instagram;

CREATE TABLE Users (

user\_id INTEGER PRIMARY KEY,

username VARCHAR(50) NOT NULL,

email VARCHAR(100) NOT NULL UNIQUE,

bio TEXT,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

CREATE TABLE Posts (

post\_id INTEGER PRIMARY KEY,

user\_id INTEGER,

caption TEXT,

image\_url VARCHAR(255),

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

CREATE TABLE Likes (

like\_id INTEGER PRIMARY KEY,

post\_id INTEGER,

user\_id INTEGER,

liked\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (post\_id) REFERENCES Posts(post\_id),

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

CREATE TABLE Comments (

comment\_id INTEGER PRIMARY KEY,

post\_id INTEGER,

user\_id INTEGER,

comment\_text TEXT,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (post\_id) REFERENCES Posts(post\_id),

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

CREATE TABLE Follows (

follow\_id INTEGER PRIMARY KEY,

follower\_id INTEGER,

following\_id INTEGER,

followed\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (follower\_id) REFERENCES Users(user\_id),

FOREIGN KEY (following\_id) REFERENCES Users(user\_id)

);

-- Insert Data into Users

INSERT INTO Users (user\_id, username, email, bio, created\_at) VALUES

(1, 'user1', 'user1@example.com', 'Bio for user1', '2024-05-20 10:56:44'),

(2, 'user2', 'user2@example.com', 'Bio for user2', '2024-01-06 21:42:58'),

(3, 'user3', 'user3@example.com', 'Bio for user3', '2020-02-06 11:27:36'),

(4, 'user4', 'user4@example.com', 'Bio for user4', '2022-12-07 02:14:45'),

(5, 'user5', 'user5@example.com', 'Bio for user5', '2024-12-15 09:59:10'),

(6, 'user6', 'user6@example.com', 'Bio for user6', '2021-11-26 17:35:56'),

(7, 'user7', 'user7@example.com', 'Bio for user7', '2024-09-09 02:07:25'),

(8, 'user8', 'user8@example.com', 'Bio for user8', '2020-03-14 01:26:15'),

(9, 'user9', 'user9@example.com', 'Bio for user9', '2023-10-24 22:42:52'),

(10, 'user10', 'user10@example.com', 'Bio for user10', '2023-02-12 13:50:55'),

(11, 'user11', 'user11@example.com', 'Bio for user11', '2020-02-27 08:29:36'),

(12, 'user12', 'user12@example.com', 'Bio for user12', '2021-02-25 00:11:59'),

(13, 'user13', 'user13@example.com', 'Bio for user13', '2023-03-20 03:48:41'),

(14, 'user14', 'user14@example.com', 'Bio for user14', '2024-06-21 16:15:17'),

(15, 'user15', 'user15@example.com', 'Bio for user15', '2024-06-20 01:55:24'),

(16, 'user16', 'user16@example.com', 'Bio for user16', '2023-06-07 08:58:11'),

(17, 'user17', 'user17@example.com', 'Bio for user17', '2023-12-21 08:51:02'),

(18, 'user18', 'user18@example.com', 'Bio for user18', '2022-05-18 12:59:56'),

(19, 'user19', 'user19@example.com', 'Bio for user19', '2023-09-27 07:43:11'),

(20, 'user20', 'user20@example.com', 'Bio for user20', '2021-03-03 22:14:28'),

(21, 'user21', 'user21@example.com', 'Bio for user21', '2022-07-25 12:06:48'),

(22, 'user22', 'user22@example.com', 'Bio for user22', '2022-05-11 23:18:00'),

(23, 'user23', 'user23@example.com', 'Bio for user23', '2023-07-06 02:23:32'),

(24, 'user24', 'user24@example.com', 'Bio for user24', '2020-05-25 04:03:58'),

(25, 'user25', 'user25@example.com', 'Bio for user25', '2020-07-13 11:17:23'),

(26, 'user26', 'user26@example.com', 'Bio for user26', '2024-05-09 19:28:41'),

(27, 'user27', 'user27@example.com', 'Bio for user27', '2024-02-09 20:52:49'),

(28, 'user28', 'user28@example.com', 'Bio for user28', '2022-08-02 05:04:15'),

(29, 'user29', 'user29@example.com', 'Bio for user29', '2021-02-28 12:51:42'),

(30, 'user30', 'user30@example.com', 'Bio for user30', '2024-03-17 07:21:56'),

(31, 'user31', 'user31@example.com', 'Bio for user31', '2022-12-28 23:46:31'),

(32, 'user32', 'user32@example.com', 'Bio for user32', '2023-03-17 00:19:45'),

(33, 'user33', 'user33@example.com', 'Bio for user33', '2022-01-16 04:00:32'),

(34, 'user34', 'user34@example.com', 'Bio for user34', '2023-04-04 23:16:10'),

(35, 'user35', 'user35@example.com', 'Bio for user35', '2021-04-25 22:06:39'),

(36, 'user36', 'user36@example.com', 'Bio for user36', '2021-10-05 17:14:31'),

(37, 'user37', 'user37@example.com', 'Bio for user37', '2024-10-14 04:44:20'),

(38, 'user38', 'user38@example.com', 'Bio for user38', '2023-11-24 20:18:51'),

(39, 'user39', 'user39@example.com', 'Bio for user39', '2024-08-29 10:46:44'),

(40, 'user40', 'user40@example.com', 'Bio for user40', '2024-05-01 08:54:53'),

(41, 'user41', 'user41@example.com', 'Bio for user41', '2022-11-14 23:18:34'),

(42, 'user42', 'user42@example.com', 'Bio for user42', '2024-09-09 13:49:35'),

(43, 'user43', 'user43@example.com', 'Bio for user43', '2022-04-09 12:14:40'),

(44, 'user44', 'user44@example.com', 'Bio for user44', '2024-11-09 08:59:50'),

(45, 'user45', 'user45@example.com', 'Bio for user45', '2023-09-02 06:20:36'),

(46, 'user46', 'user46@example.com', 'Bio for user46', '2021-06-14 15:15:56'),

(47, 'user47', 'user47@example.com', 'Bio for user47', '2023-03-09 07:07:17'),

(48, 'user48', 'user48@example.com', 'Bio for user48', '2021-11-16 17:34:46'),

(49, 'user49', 'user49@example.com', 'Bio for user49', '2020-12-05 08:00:31'),

(50, 'user50', 'user50@example.com', 'Bio for user50', '2022-09-15 12:48:17');

-- Insert Data into Posts

INSERT INTO Posts (post\_id, user\_id, caption, image\_url, created\_at) VALUES

(1, 47, 'Post 1 by user46', 'https://example.com/image1.jpg', '2023-12-18 07:22:44'),

(2, 6, 'Post 2 by user41', 'https://example.com/image2.jpg', '2023-07-30 20:18:17'),

(3, 18, 'Post 3 by user46', 'https://example.com/image3.jpg', '2023-05-15 23:08:19'),

(4, 31, 'Post 4 by user47', 'https://example.com/image4.jpg', '2023-01-08 22:37:51'),

(5, 28, 'Post 5 by user29', 'https://example.com/image5.jpg', '2021-09-26 00:24:17'),

(6, 36, 'Post 6 by user27', 'https://example.com/image6.jpg', '2021-10-10 16:57:00'),

(7, 10, 'Post 7 by user15', 'https://example.com/image7.jpg', '2023-08-16 22:45:18'),

(8, 39, 'Post 8 by user45', 'https://example.com/image8.jpg', '2021-07-19 05:08:34'),

(9, 34, 'Post 9 by user37', 'https://example.com/image9.jpg', '2023-04-16 17:00:57'),

(10, 17, 'Post 10 by user20', 'https://example.com/image10.jpg', '2023-08-07 16:36:19'),

(11, 11, 'Post 11 by user17', 'https://example.com/image11.jpg', '2024-09-25 13:58:20'),

(12, 36, 'Post 12 by user33', 'https://example.com/image12.jpg', '2023-07-14 11:01:31'),

(13, 32, 'Post 13 by user50', 'https://example.com/image13.jpg', '2024-01-21 03:26:53'),

(14, 33, 'Post 14 by user38', 'https://example.com/image14.jpg', '2022-08-30 07:18:15'),

(15, 21, 'Post 15 by user16', 'https://example.com/image15.jpg', '2021-11-09 23:59:53'),

(16, 3, 'Post 16 by user33', 'https://example.com/image16.jpg', '2021-10-18 17:29:19'),

(17, 14, 'Post 17 by user4', 'https://example.com/image17.jpg', '2024-08-29 21:04:25'),

(18, 29, 'Post 18 by user37', 'https://example.com/image18.jpg', '2023-02-07 02:09:41'),

(19, 14, 'Post 19 by user14', 'https://example.com/image19.jpg', '2022-08-23 14:44:37'),

(20, 40, 'Post 20 by user43', 'https://example.com/image20.jpg', '2020-11-14 16:59:53'),

(21, 35, 'Post 21 by user16', 'https://example.com/image21.jpg', '2021-09-04 07:47:36'),

(22, 48, 'Post 22 by user17', 'https://example.com/image22.jpg', '2021-12-04 10:13:33'),

(23, 2, 'Post 23 by user32', 'https://example.com/image23.jpg', '2024-05-05 13:58:39'),

(24, 12, 'Post 24 by user28', 'https://example.com/image24.jpg', '2024-06-13 15:16:50'),

(25, 30, 'Post 25 by user36', 'https://example.com/image25.jpg', '2020-08-11 11:57:23'),

(26, 29, 'Post 26 by user6', 'https://example.com/image26.jpg', '2021-07-25 04:52:11'),

(27, 5, 'Post 27 by user26', 'https://example.com/image27.jpg', '2023-03-08 01:35:14'),

(28, 15, 'Post 28 by user15', 'https://example.com/image28.jpg', '2021-07-01 08:50:45'),

(29, 49, 'Post 29 by user22', 'https://example.com/image29.jpg', '2024-01-29 11:05:24'),

(30, 31, 'Post 30 by user9', 'https://example.com/image30.jpg', '2021-03-09 16:49:25'),

(31, 43, 'Post 31 by user41', 'https://example.com/image31.jpg', '2021-11-17 15:49:19'),

(32, 15, 'Post 32 by user4', 'https://example.com/image32.jpg', '2024-03-12 17:35:55'),

(33, 42, 'Post 33 by user20', 'https://example.com/image33.jpg', '2024-04-17 08:17:34'),

(34, 49, 'Post 34 by user38', 'https://example.com/image34.jpg', '2023-12-31 22:00:20'),

(35, 18, 'Post 35 by user46', 'https://example.com/image35.jpg', '2022-03-24 19:33:44'),

(36, 36, 'Post 36 by user39', 'https://example.com/image36.jpg', '2022-02-28 18:56:03'),

(37, 29, 'Post 37 by user42', 'https://example.com/image37.jpg', '2021-01-25 13:29:04'),

(38, 7, 'Post 38 by user18', 'https://example.com/image38.jpg', '2024-05-04 01:14:42'),

(39, 18, 'Post 39 by user16', 'https://example.com/image39.jpg', '2022-07-03 06:05:21'),

(40, 32, 'Post 40 by user21', 'https://example.com/image40.jpg', '2020-04-20 04:50:16'),

(41, 9, 'Post 41 by user46', 'https://example.com/image41.jpg', '2024-09-04 02:56:14'),

(42, 21, 'Post 42 by user50', 'https://example.com/image42.jpg', '2022-12-14 19:28:24'),

(43, 35, 'Post 43 by user28', 'https://example.com/image43.jpg', '2020-04-11 16:38:44'),

(44, 5, 'Post 44 by user41', 'https://example.com/image44.jpg', '2023-12-01 01:49:50'),

(45, 36, 'Post 45 by user33', 'https://example.com/image45.jpg', '2022-07-06 19:16:36'),

(46, 15, 'Post 46 by user44', 'https://example.com/image46.jpg', '2020-11-08 12:37:12'),

(47, 5, 'Post 47 by user48', 'https://example.com/image47.jpg', '2024-09-28 01:11:41'),

(48, 13, 'Post 48 by user45', 'https://example.com/image48.jpg', '2022-01-09 01:49:03'),

(49, 47, 'Post 49 by user49', 'https://example.com/image49.jpg', '2022-11-16 12:57:27'),

(50, 41, 'Post 50 by user28', 'https://example.com/image50.jpg', '2021-03-16 06:05:08'),

(51, 34, 'Post 51 by user20', 'https://example.com/image51.jpg', '2021-08-11 20:12:39'),

(52, 33, 'Post 52 by user34', 'https://example.com/image52.jpg', '2022-08-04 16:04:34'),

(53, 25, 'Post 53 by user13', 'https://example.com/image53.jpg', '2020-05-27 05:37:21'),

(54, 39, 'Post 54 by user33', 'https://example.com/image54.jpg', '2021-10-08 12:04:58'),

(55, 20, 'Post 55 by user34', 'https://example.com/image55.jpg', '2023-02-12 20:26:28'),

(56, 34, 'Post 56 by user41', 'https://example.com/image56.jpg', '2022-09-03 07:49:19'),

(57, 12, 'Post 57 by user11', 'https://example.com/image57.jpg', '2020-12-05 08:19:41'),

(58, 21, 'Post 58 by user18', 'https://example.com/image58.jpg', '2020-01-28 07:51:07'),

(59, 50, 'Post 59 by user13', 'https://example.com/image59.jpg', '2020-06-14 10:28:52'),

(60, 47, 'Post 60 by user27', 'https://example.com/image60.jpg', '2023-12-28 22:38:16'),

(61, 21, 'Post 61 by user28', 'https://example.com/image61.jpg', '2024-04-03 19:30:19'),

(62, 33, 'Post 62 by user3', 'https://example.com/image62.jpg', '2022-08-09 20:59:54'),

(63, 6, 'Post 63 by user38', 'https://example.com/image63.jpg', '2024-05-24 13:44:13'),

(64, 24, 'Post 64 by user46', 'https://example.com/image64.jpg', '2023-12-23 19:16:58'),

(65, 43, 'Post 65 by user37', 'https://example.com/image65.jpg', '2024-12-15 00:59:41'),

(66, 47, 'Post 66 by user2', 'https://example.com/image66.jpg', '2024-03-16 09:58:16'),

(67, 26, 'Post 67 by user5', 'https://example.com/image67.jpg', '2022-02-09 07:34:51'),

(68, 43, 'Post 68 by user28', 'https://example.com/image68.jpg', '2020-04-05 06:37:39'),

(69, 12, 'Post 69 by user47', 'https://example.com/image69.jpg', '2024-08-21 02:47:48'),

(70, 48, 'Post 70 by user20', 'https://example.com/image70.jpg', '2021-09-08 07:33:41'),

(71, 45, 'Post 71 by user22', 'https://example.com/image71.jpg', '2022-05-26 22:25:56'),

(72, 13, 'Post 72 by user16', 'https://example.com/image72.jpg', '2022-03-02 14:51:52'),

(73, 46, 'Post 73 by user39', 'https://example.com/image73.jpg', '2021-06-09 10:09:08'),

(74, 35, 'Post 74 by user42', 'https://example.com/image74.jpg', '2023-06-22 16:57:28'),

(75, 31, 'Post 75 by user37', 'https://example.com/image75.jpg', '2021-12-19 22:01:25'),

(76, 31, 'Post 76 by user36', 'https://example.com/image76.jpg', '2024-08-10 18:35:50'),

(77, 39, 'Post 77 by user38', 'https://example.com/image77.jpg', '2024-12-10 16:33:56'),

(78, 35, 'Post 78 by user7', 'https://example.com/image78.jpg', '2024-02-20 18:23:35'),

(79, 35, 'Post 79 by user50', 'https://example.com/image79.jpg', '2021-02-25 06:48:59'),

(80, 35, 'Post 80 by user10', 'https://example.com/image80.jpg', '2021-04-11 12:26:53'),

(81, 46, 'Post 81 by user38', 'https://example.com/image81.jpg', '2022-11-26 23:21:18'),

(82, 12, 'Post 82 by user40', 'https://example.com/image82.jpg', '2023-10-06 10:09:16'),

(83, 36, 'Post 83 by user34', 'https://example.com/image83.jpg', '2023-12-04 15:21:01'),

(84, 25, 'Post 84 by user21', 'https://example.com/image84.jpg', '2020-07-09 08:05:07'),

(85, 19, 'Post 85 by user2', 'https://example.com/image85.jpg', '2020-04-27 01:46:04'),

(86, 46, 'Post 86 by user2', 'https://example.com/image86.jpg', '2020-09-24 01:46:43'),

(87, 31, 'Post 87 by user15', 'https://example.com/image87.jpg', '2023-07-18 21:57:52'),

(88, 48, 'Post 88 by user34', 'https://example.com/image88.jpg', '2024-07-05 20:55:07'),

(89, 50, 'Post 89 by user39', 'https://example.com/image89.jpg', '2021-05-14 16:58:55'),

(90, 6, 'Post 90 by user27', 'https://example.com/image90.jpg', '2021-07-16 00:37:25'),

(91, 19, 'Post 91 by user37', 'https://example.com/image91.jpg', '2021-10-25 07:58:58'),

(92, 29, 'Post 92 by user34', 'https://example.com/image92.jpg', '2022-04-16 21:05:27'),

(93, 9, 'Post 93 by user9', 'https://example.com/image93.jpg', '2024-01-07 22:30:57'),

(94, 28, 'Post 94 by user45', 'https://example.com/image94.jpg', '2022-11-15 12:06:03'),

(95, 34, 'Post 95 by user48', 'https://example.com/image95.jpg', '2024-06-28 17:08:31'),

(96, 16, 'Post 96 by user29', 'https://example.com/image96.jpg', '2023-08-01 06:31:27'),

(97, 42, 'Post 97 by user44', 'https://example.com/image97.jpg', '2024-08-23 23:28:39'),

(98, 31, 'Post 98 by user5', 'https://example.com/image98.jpg', '2020-12-28 01:15:41'),

(99, 36, 'Post 99 by user46', 'https://example.com/image99.jpg', '2020-02-21 19:24:28'),

(100, 15, 'Post 100 by user36', 'https://example.com/image100.jpg', '2021-09-20 00:52:38');

-- Insert Data into Likes

INSERT INTO Likes (like\_id, post\_id, user\_id, liked\_at) VALUES

(1, 81, 39, '2020-12-19 02:06:27'),

(2, 32, 26, '2021-01-02 18:18:18'),

(3, 45, 12, '2024-02-06 09:47:02'),

(4, 87, 41, '2022-05-11 08:51:32'),

(5, 96, 1, '2024-07-04 16:40:36'),

(6, 66, 5, '2021-11-02 23:02:15'),

(7, 16, 44, '2021-05-29 02:15:28'),

(8, 83, 19, '2024-01-12 06:55:15'),

(9, 46, 16, '2022-09-13 08:29:00'),

(10, 4, 39, '2022-02-11 00:14:51'),

(11, 16, 19, '2020-04-07 15:29:21'),

(12, 54, 12, '2023-03-25 07:04:49'),

(13, 68, 28, '2023-03-22 15:10:55'),

(14, 14, 19, '2024-10-29 22:55:29'),

(15, 40, 29, '2024-10-21 03:19:29'),

(16, 68, 34, '2020-03-12 16:23:09'),

(17, 38, 24, '2021-09-29 09:05:45'),

(18, 67, 6, '2022-08-23 02:04:33'),

(19, 73, 41, '2023-07-29 19:11:29'),

(20, 67, 29, '2020-09-23 20:49:18'),

(21, 4, 34, '2023-04-28 08:14:37'),

(22, 17, 44, '2020-09-18 19:51:31'),

(23, 25, 31, '2023-08-28 20:39:18'),

(24, 39, 27, '2024-03-05 12:45:25'),

(25, 77, 5, '2024-12-22 11:08:21'),

(26, 6, 12, '2022-12-17 14:50:46'),

(27, 47, 24, '2023-08-10 13:33:18'),

(28, 54, 42, '2020-04-21 02:55:59'),

(29, 14, 44, '2020-06-04 17:43:23'),

(30, 69, 33, '2023-08-15 10:08:00'),

(31, 80, 50, '2024-05-25 18:24:16'),

(32, 95, 31, '2021-09-18 00:13:42'),

(33, 33, 36, '2020-03-18 22:55:25'),

(34, 18, 47, '2024-06-08 05:33:49'),

(35, 93, 26, '2023-10-12 07:49:51'),

(36, 72, 22, '2021-11-30 19:09:37'),

(37, 96, 4, '2023-03-26 20:56:52'),

(38, 9, 47, '2022-04-29 18:25:27'),

(39, 43, 19, '2020-07-10 18:45:02'),

(40, 59, 21, '2023-11-11 08:10:16'),

(41, 11, 34, '2020-06-12 11:49:00'),

(42, 99, 19, '2021-07-05 07:47:30'),

(43, 31, 46, '2023-12-12 06:06:21'),

(44, 53, 11, '2020-02-03 15:27:13'),

(45, 55, 2, '2020-11-20 03:32:43'),

(46, 89, 30, '2020-12-26 01:12:42'),

(47, 11, 1, '2024-03-01 16:46:01'),

(48, 26, 37, '2024-05-09 02:14:32'),

(49, 69, 14, '2022-12-21 20:07:48'),

(50, 41, 5, '2024-04-03 19:34:21'),

(51, 77, 47, '2023-05-27 20:47:26'),

(52, 39, 50, '2022-02-04 16:17:56'),

(53, 39, 35, '2020-03-21 12:16:54'),

(54, 8, 33, '2021-03-25 02:16:51'),

(55, 18, 50, '2024-05-20 21:34:18'),

(56, 50, 8, '2024-03-02 07:54:34'),

(57, 66, 23, '2024-06-02 19:19:06'),

(58, 32, 16, '2020-06-16 14:52:35'),

(59, 68, 46, '2020-05-12 09:22:06'),

(60, 84, 30, '2021-02-14 21:18:48'),

(61, 18, 23, '2022-04-26 18:08:49'),

(62, 24, 23, '2023-07-13 21:34:40'),

(63, 65, 31, '2023-04-26 20:56:28'),

(64, 21, 47, '2024-02-10 06:34:28'),

(65, 39, 14, '2024-06-12 02:05:46'),

(66, 15, 24, '2024-02-17 07:34:55'),

(67, 63, 18, '2022-10-31 12:53:08'),

(68, 13, 3, '2022-12-03 10:44:59'),

(69, 42, 30, '2023-11-13 02:15:36'),

(70, 100, 8, '2024-02-08 13:57:05'),

(71, 81, 14, '2020-11-11 05:18:04'),

(72, 70, 12, '2022-07-29 03:03:26'),

(73, 3, 1, '2023-02-17 16:19:35'),

(74, 87, 44, '2022-09-09 10:44:09'),

(75, 47, 26, '2020-03-11 17:44:44'),

(76, 82, 11, '2024-09-24 10:49:53'),

(77, 46, 33, '2023-10-16 10:06:35'),

(78, 67, 30, '2020-10-07 02:43:47'),

(79, 58, 28, '2021-06-26 07:49:42'),

(80, 46, 25, '2023-09-05 12:06:24'),

(81, 84, 30, '2020-05-30 01:31:40'),

(82, 36, 6, '2022-03-13 12:33:31'),

(83, 46, 50, '2024-10-31 18:07:29'),

(84, 10, 19, '2022-10-19 03:29:02'),

(85, 56, 6, '2020-12-06 10:07:52'),

(86, 39, 36, '2022-12-24 13:53:42'),

(87, 8, 22, '2020-01-19 13:22:03'),

(88, 19, 10, '2020-05-09 04:48:09'),

(89, 53, 38, '2021-04-04 02:49:05'),

(90, 51, 35, '2020-08-02 13:34:01'),

(91, 48, 11, '2023-06-23 16:52:27'),

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