

SOCIAL MEDIA ANALYSIS

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Abstract:

This project aims to analyze social media data to gain insights into various trends, sentiments. Leveraging advanced data analytics, we will explore patterns in user interactions, identify key influencers, detect emerging topics, and assess sentiment dynamics.

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Batch:T316/Mon-Thu/5:00-7:00pm**

SOCIAL MEDIA ANALYSIS

Project For SQL Module

1. Description:

The Social Media Analysis SQL project focuses on leveraging SQL (Structured Query Language) to extract, transform, and analyze data from various social media platforms.

This project entails the following components:

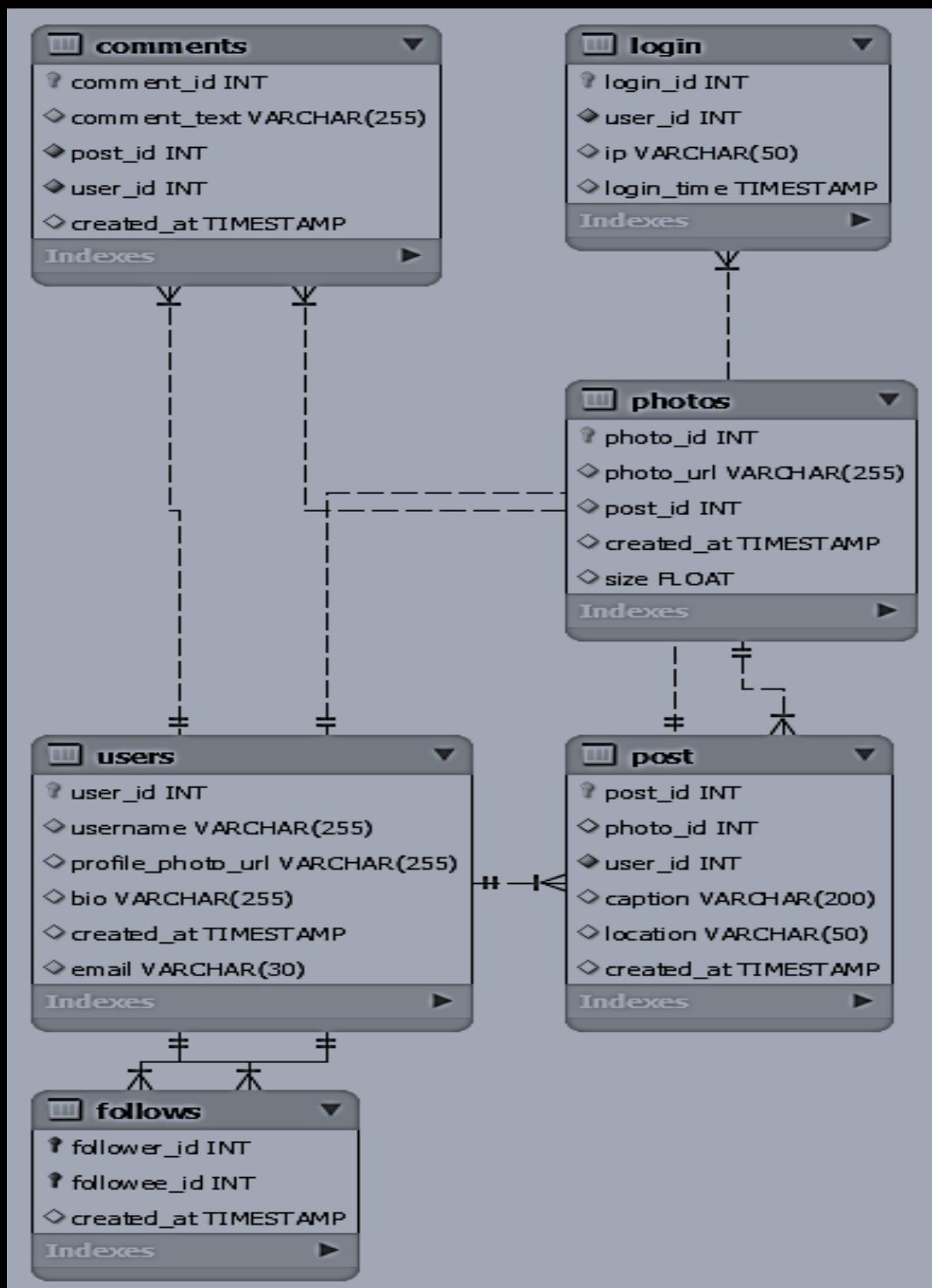
1. **Data Acquisition:** Identify suitable data sources such as Twitter, Facebook, Instagram, or other platforms. Utilize APIs or web scraping techniques to gather relevant data, including posts, comments, likes, shares, user profiles, and metadata.
2. **Data Preparation:** Cleanse and preprocess the acquired data to ensure consistency and reliability. This involves tasks such as removing duplicates, handling missing values, standardizing formats, and filtering out irrelevant information.
3. **Database Design:** Design an efficient database schema to store the structured social media data. Consideration should be given to tables for users, posts, comments, likes, shares, hashtags, and any other pertinent entities. Normalization techniques may be applied to optimize database performance.
4. **SQL Queries:** Develop a set of SQL queries to perform various analyses on the social media data.

These queries may include:

- Basic analytics such as counting the number of posts, comments, likes, and shares.
 - Trend analysis to identify popular topics or hashtags over time.
 - Sentiment analysis to assess the overall sentiment of posts or comments.
 - User engagement metrics such as average likes per post, top influencers, or user activity patterns.
 - Network analysis to identify connections between users or communities within the social network.
5. **Visualization:** Visualize the results of SQL queries using appropriate tools such as charts, graphs, or dashboards. Visualization techniques can enhance the understanding of trends, patterns, and insights derived from the social media data.
 6. **Documentation:** Provide comprehensive documentation detailing the project objectives, data sources, database schema, SQL queries, analysis methodologies, and visualization techniques employed. Clear documentation facilitates understanding and replication of the project by others.

Overall, this Social Media Analysis SQL project offers a hands-on opportunity to apply SQL skills to real-world data analysis tasks, gaining insights into social media trends, user behavior, and engagement metrics.

2. ER-Diagram for Social Media Analysis :



3. Table Descriptions:

1) USERS TABLE:

Field	Type	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	auto_increment
username	varchar(255)	NO	UNI	NULL	
profile_photo_url	varchar(255)	YES		https://picsum.photos/100	
bio	varchar(255)	YES		NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
email	varchar(30)	NO		NULL	

2) LOGIN TABLE:

Field	Type	Null	Key	Default	Extra
login_id	int	NO	PRI	NULL	auto_increment
user_id	int	NO	MUL	NULL	
ip	varchar(50)	NO		NULL	
login_time	timestamp	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED

3) FOLLOWS TABLE:

Field	Type	Null	Key	Default	Extra
follower_id	int	NO	PRI	NULL	
followee_id	int	NO	PRI	NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

4) PHOTOS TABLES:

Field	Type	Null	Key	Default	Extra
photo_id	int	NO	PRI	NULL	auto_increment
photo_url	varchar(255)	NO	UNI	NULL	
post_id	int	NO		NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
size	float	YES		NULL	

5) POST TABLE:

Field	Type	Null	Key	Default	Extra
post_id	int	NO	PRI	NULL	auto_increment
photo_id	int	YES	MUL	NULL	
user_id	int	NO	MUL	NULL	
caption	varchar(200)	YES		NULL	
location	varchar(50)	YES		NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

6) COMMENTS TABLE:

Field	Type	Null	Key	Default	Extra
comment_id	int	NO	PRI	NULL	auto_increment
comment_text	varchar(255)	NO		NULL	
post_id	int	NO	MUL	NULL	
user_id	int	NO	MUL	NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

COMMANDS

```
CREATE DATABASE social_media;  
USE social_media;
```

- **USERS TABLE**

```
CREATE TABLE users (  
    user_id INTEGER AUTO_INCREMENT PRIMARY KEY,  
    username VARCHAR(255) UNIQUE NOT NULL,  
    profile_photo_url VARCHAR(255) DEFAULT 'https://picsum.photos/100',  
    bio VARCHAR(255),  
    created_at TIMESTAMP DEFAULT NOW()  
);  
ALTER TABLE users ADD email VARCHAR(30) NOT NULL;
```

- **LOGIN TABLE**

```
CREATE TABLE login (  
    login_id INTEGER NOT NULL AUTO_INCREMENT PRIMARY KEY,  
    user_id INTEGER NOT NULL,  
    ip VARCHAR(50) NOT NULL,  
    login_time TIMESTAMP NOT NULL DEFAULT NOW(),  
    FOREIGN KEY(user_id) REFERENCES users(user_id)  
);
```

- **PHOTOS TABLE**

```
CREATE TABLE photos (  
    photo_id INTEGER AUTO_INCREMENT PRIMARY KEY,  
    photo_url VARCHAR(255) NOT NULL UNIQUE,  
    post_id INTEGER NOT NULL,  
    created_at TIMESTAMP DEFAULT NOW(),  
    size FLOAT CHECK (size<5)  
);
```

- **POST TABLE**

```
CREATE TABLE post (  
    post_id INTEGER AUTO_INCREMENT PRIMARY KEY,  
    photo_id INTEGER,  
    user_id INTEGER NOT NULL,  
    caption VARCHAR(200),  
    location VARCHAR(50),  
    created_at TIMESTAMP DEFAULT NOW(),  
    FOREIGN KEY(user_id) REFERENCES users(user_id),  
    FOREIGN KEY(photo_id) REFERENCES photos(photo_id)  
);
```

- **COMMENTS TABLE**

```
CREATE TABLE comments (
    comment_id INTEGER AUTO_INCREMENT PRIMARY KEY,
    comment_text VARCHAR(255) NOT NULL,
    post_id INTEGER NOT NULL,
    user_id INTEGER NOT NULL,
    created_at TIMESTAMP DEFAULT NOW(),
    FOREIGN KEY(post_id) REFERENCES post(post_id),
    FOREIGN KEY(user_id) REFERENCES users(user_id)
);
```

- **FOLLOWS TABLE**

```
CREATE TABLE follows (
    follower_id INTEGER NOT NULL,
    followee_id INTEGER NOT NULL,
    created_at TIMESTAMP DEFAULT NOW(),
    FOREIGN KEY(follower_id) REFERENCES users(user_id),
    FOREIGN KEY(followee_id) REFERENCES users(user_id),
    PRIMARY KEY(follower_id, followee_id)
);
```

INSERT INTO users(username, profile_photo_url, bio,email) VALUES

("kanavphull","https://pbs.twimg.com/profile_images/1386885117428191232/70SyHOxP_400x400.jpg","H edonist yet Spiritual || IT at NITJ 2024",'as1mobiles@gmail.com'),
('raj gupta' , '/klsadf893724:f//432' , 'soon to be updated','admin@1shopbuy.com'),
('Sahib Singh' , 'https://pbs.twimg.com/profile_images/1465003815820693506/gbTJoe66_400x400.jpg' , "Life is a journey, It drives you MAD.|| IT NITJ'24",'12angeldesignworld@gmail.com'),
('Sakshi Warandani' ,
"https://vader.news/_export/1612817390103/sites/gadgets/img/2021/02/08/ian_somerhalder_vampires.jpg_246448593.jpg" , "NITJ wish me on 23 jan",'deepak@24sevenindia.com'),
('Omnicron Larson" , "/sdfvsdf" , "Heart Stealer",'101cartinfo@gmail.com'),
("dettol sharma" , "/sdfvsdf" , "Dettol Stealer",'the.yellow.gold@gmail.com'),
('sunil' , '/yisadf324//' , 'hotel manageemnt ','deepak@24sevenindia.com'),
('sanjay' , '/fduijahj43' , 'football lover','deepak@24sevenindia.com'),
('Axel Sivert Anker' , '/adaskjnas','Norwegian','gazender.686@gmail.com'),
('Steven','acdsecesdc', 'living life my way','sravi07@yahoo.com'),
('Jack','https://picsum.photos/100','**Welcome To My Profile**','contact@21fools.com'),
('Oliver','https://picsum.photos/101','**Official Account**','the.yellow.gold@gmail.com'),
('James','https://picsum.photos/102','**Wish Me On 3 October**','contact@21fools.com'),
('Charlie','https://picsum.photos/103','aap yha aae kisliye','sravi07@yahoo.com'),
('Harris','https://picsum.photos/104','**Sanskari Ladka**','pawan.modi1@gmail.com'),
('Lewis','https://picsum.photos/105','aapne bulaya isilye','as1mobiles@gmail.com'),
('Leo','https://picsum.photos/106','**Gym Løvèr**','pawan.modi1@gmail.com'),
('Noah','https://picsum.photos/107','aae hai toh kaam bi btiye','sunglasses.24@gmail.com'),
('Alfie','https://picsum.photos/108','**Single**','deepak@24sevenindia.com'),
('Rory','https://picsum.photos/109','phle zara aap muskrae','pawan.modi1@gmail.com'),
('Alexander','https://picsum.photos/110','**Respect For All**','umesh.agarwal@24x7safebuy.com'),
('Max','https://picsum.photos/111','**Instagram King**','as1mobiles@gmail.com'),
('Logan','https://picsum.photos/112','**Cake Murder On 17 June**','101cartinfo@gmail.com'),
('Harry','https://picsum.photos/113','hhddsgb','shyamsunder121@gmail.com'),
('Theo','https://picsum.photos/114','**❤️ Photography**','info@3coinsplus.com'),
('Thomas','https://picsum.photos/115','siudgfibiugs','wasif1@2dayenterprises.com'),
('Brodie','https://picsum.photos/116','**Music Addict**','shyamsunder121@gmail.com'),
('Archie','https://picsum.photos/117','uhiusgfuifiusf','wasif1@2dayenterprises.com'),
('Jacob','https://picsum.photos/118','**Single**','mail@3gmobileworld.in'),
('Finlay','https://picsum.photos/119','usdsgbcu','mail@3gmobileworld.in'),
('Finn','https://picsum.photos/120','**Proud To Be Hindu**','pawan.modi1@gmail.com'),
('Daniel','https://picsum.photos/121','hucussgcusn','shyamsunder121@gmail.com'),
('Joshua','https://picsum.photos/122','**Big Fan Of Mahakal**','sunglasses.24@gmail.com'),
('Oscar','https://picsum.photos/123','**Mr.perfect**','gazender.686@gmail.com'),
('Arthur','https://picsum.photos/124','**Hate me or Date me**',.'),
('Hunter','https://picsum.photos/125','**photoholik**','mail@3gmobileworld.in'),
('Ethan','https://picsum.photos/126','gygyuuuy','deepak@24sevenindia.com'),
('Mason','https://picsum.photos/127','**foody**','sunglasses.24@gmail.com'),
('Harrison','https://picsum.photos/128','gfytfv','contact@21fools.com'),
('Freddie','https://picsum.photos/129','**single**','contact@21fools.com'),
('Ollie','https://picsum.photos/130','fytfysguf','mail@3gmobileworld.in'),
('Adam','https://picsum.photos/131','**U will find a boy better than me but U don't find boy like me**','sravi07@yahoo.com'),
('William','https://picsum.photos/132','fyasu','admin@1shopbuy.com'),

('Jaxon','https://picsum.photos/133','**Official account**','info@3coinsplus.com'),
('Aaron','https://picsum.photos/134','ytyftftyi','gazender.686@gmail.com'),
('Cameron','https://picsum.photos/135','uygdghfios','shyamsunder121@gmail.com'),
('Liam','https://picsum.photos/136','ygyugdysgc','wasif1@2dayenterprises.com'),
('George','https://picsum.photos/137','**Music lover**','as1mobiles@gmail.com'),
('Jamie','https://picsum.photos/138','ygsgsogt','pawan.modi1@gmail.com'),
('Callum','https://picsum.photos/139','**Sports lover**','mail@3gmobileworld.in');

INSERT INTO LOGIN(user_id , ip) VALUES

(19,'186.83.147.14'),(43,'95.43.246.66'),(34,'105.238.37.204'),(36,'13.120.97.136'),
(36,'0.83.214.172'),(34,'20.182.93.222'),(11,'200.237.53.32'),(28,'41.81.231.81'),
(25,'24.223.2.33'),(43,'8.168.37.68'),(24,'129.91.145.75'),(15,'242.220.82.190'),
(6,'107.137.170.154'),(10,'206.40.219.225'),(2,'136.186.80.29'),(13,'234.153.100.73'),
(43,'137.168.133.16'),(43,'248.119.108.48'),(46,'92.178.211.66'),(17,'25.177.94.84'),
(22,'40.165.240.121'),(38,'14.217.104.111'),(26,'17.82.20.179'),(31,'183.67.159.170'),
(36,'211.7.231.108'),(41,'20.81.221.177'),(2,'235.195.9.138'),(15,'206.230.99.108'),
(38,'196.138.60.144'),(6,'103.52.7.34'),(34,'232.209.180.248'),(15,'109.26.198.247'),
(45,'76.38.160.92'),(47,'239.166.182.14'),(40,'225.130.239.107'),(46,'250.158.54.36'),
(10,'173.160.71.20'),(38,'200.10.166.141'),(15,'195.136.72.29'),(42,'58.64.148.8'),
(38,'245.136.26.79'),(5,'16.152.146.172'),(36,'56.127.227.250'),(25,'136.191.250.64'),
(33,'247.63.28.170'),(47,'77.112.183.186'),(26,'147.228.253.137'),(33,'3.70.234.168'),
(24,'213.98.160.235'),(45,'224.112.90.6'),(39,'163.233.26.24'),(9,'128.79.68.115'),
(20,'0.36.210.165'),(13,'138.32.95.212'),(22,'233.203.24.116'),(22,'45.87.104.147'),
(2,'178.217.157.41'),(42,'6.29.50.100'),(11,'99.177.102.209'),(25,'242.87.45.152'),
(12,'187.170.52.130'),(43,'112.10.139.193'),(43,'73.147.94.38'),(50,'157.45.4.120'),
(33,'176.2.26.232'),(14,'103.225.38.110'),(38,'81.42.205.37'),(26,'200.166.27.162'),
(8,'131.236.23.35'),(43,'107.163.201.212'),(46,'211.68.48.44'),(34,'159.155.216.188'),
(2,'236.127.210.188'),(22,'238.190.151.98'),(46,'145.80.84.206'),(45,'203.188.132.95'),
(28,'184.58.66.29'),(12,'86.104.134.78'),(47,'94.45.198.183'),(48,'50.222.193.184'),
(49,'43.49.49.88'),(24,'219.166.183.216'),(33,'15.21.216.21'),(20,'177.150.57.124'),
(34,'150.19.152.19'),(49,'112.226.244.101'),(9,'108.216.168.190'),(48,'66.76.200.102'),
(30,'23.225.200.35'),(50,'24.57.93.90'),(13,'65.104.238.185'),(18,'208.4.103.252'),
(26,'185.28.144.176'),(7,'116.215.67.178'),(41,'142.210.152.194'),(49,'194.198.76.27'),
(48,'155.148.13.228'),(35,'101.225.93.143');

INSERT INTO photos(photo_url, post_id, size) VALUE

('https://picsum.photos/100', 26, 4),
(https://picsum.photos/101', 27, 1),
(https://picsum.photos/102', 28, 2),
(https://picsum.photos/103', 29, 1),
(https://picsum.photos/104', 30, 2),
(https://picsum.photos/105', 31, 3),
(https://picsum.photos/106', 32, 4),
(https://picsum.photos/107', 33, 4),
(https://picsum.photos/108', 34, 2),
(https://picsum.photos/109', 35, 2),
(https://picsum.photos/110', 36, 2),
(https://picsum.photos/111', 37, 2),
(https://picsum.photos/112', 38, 2),
(https://picsum.photos/113', 39, 2),
(https://picsum.photos/114', 40, 4),
(https://picsum.photos/115', 41, 4),
(https://picsum.photos/116', 42, 3),
(https://picsum.photos/117', 43, 3),
(https://picsum.photos/118', 44, 3),
(https://picsum.photos/119', 45, 1),
(https://picsum.photos/120', 46, 2),
(https://picsum.photos/121', 47, 3),
(https://picsum.photos/122', 48, 2),
(https://picsum.photos/123', 49, 3),
(https://picsum.photos/124', 50, 2),
(https://picsum.photos/125', 76, 3),
(https://picsum.photos/126', 77, 4),
(https://picsum.photos/127', 78, 3),
(https://picsum.photos/128', 79, 1),
(https://picsum.photos/129', 80, 4),
(https://picsum.photos/130', 81, 3),
(https://picsum.photos/131', 82, 3),
(https://picsum.photos/132', 83, 1),
(https://picsum.photos/133', 84, 1),
(https://picsum.photos/134', 85, 4),
(https://picsum.photos/135', 86, 4),
(https://picsum.photos/136', 87, 1),
(https://picsum.photos/137', 88, 4),
(https://picsum.photos/138', 89, 1),
(https://picsum.photos/139', 90, 3),
(https://picsum.photos/140', 91, 3),
(https://picsum.photos/141', 92, 2),
(https://picsum.photos/142', 93, 2),
(https://picsum.photos/143', 94, 2),
(https://picsum.photos/144', 95, 3),
(https://picsum.photos/145', 96, 1),
(https://picsum.photos/146', 97, 2),
(https://picsum.photos/147', 98, 3),
(https://picsum.photos/148', 99, 3);

INSERT INTO post (post_id,photo_id,user_id,caption,location) values

(1,15,3,'HEY!!!','VHA JHA KOI AATA JAATA NI'),
(2,21,47,'Live a good story.','The Red Fort, Delhi.'),
(3,45,6,'Escape the ordinary.','The Taj Mahal, Agra.'),
(4,7,37,'The best is yet to come.','Pangong Lake, Ladakh.'),
(5,4,22,'These are days we live for.','Valley of Flowers, Nainital.'),
(6,37,18,'Life happens, coffee helps.','Jaisalmer Fort, Jaisalmer.'),
(7,11,12,'Short sassy cute & classy.','Ruins of Hampi, Karnataka.'),
(8,50,30,'The future is bright.','Ghats at Varanasi, Uttar Pradesh.'),
(9,15,31,'Namastay in bed.','Backwaters, Kerala.'),
(10,10,44,'I have more issues than vogue.','abhayapuri'),
(11,8,32,'Life is short. Smile while you still have teeth.','achabbal'),
(12,9,25,'Ah, a perfectly captured selfie!','achalpur'),
(13,4,13,'Let's just be who we are.','achhnera'),
(14,36,12,'One bad chapter doesn't me','adari'),
(15,45,40,'Cinderella never asked for a prince.','adalaj'),
(16,39,17,'A selfie is worth a thousand words.','adilabad'),
(17,7,31,'Born to stand out with selfies.','adityana'),
(18,17,27,'I'm sorry I exist, here, a selfie.','pereyaapatna'),
(19,49,48,'....','adoni'),
(20,44,30,'dfgfsggf','adoor'),
(21,18,8,'4545','adyar'),
(22,47,7,'007@','adra'),
(23,40,32,'...','afzalpura'),
(24,45,24,'.....','agartala'),
(25,31,27,';;;@','agra'),
(26,39,11,'!','ahiwara'),
(27,38,7,'...','ahmedabad'),
(28,38,14,'.....','ahmedgarh'),
(29,41,35,'.....','ahmednagar'),
(30,1,9,'///','ahmedpur'),
(31,39,14,'???'','aizawl'),
(32,42,3,'///','ajmer'),
(33,17,45,'Selfie on fleek.','ajra'),
(34,2,15,'This is how to become a heart breaker.','akaltara'),
(35,2,20,'No guts, no story.','akathiyoor'),
(36,24,33,'The selfie is the worst judge of beauty.','akhnoor'),
(37,7,15,'Nobody's perfect...but I'm close.','akkalkot'),
(38,46,1,'Does this selfie make me look fat?','akola'),
(39,25,25,'Rate this selfie from 1-10.','akot'),
(40,49,6,'But first... let me take a selfie.','alandha'),
(41,49,45,'Gracing your feed with this fabulous selfie.','alandi'),
(42,21,30,'Mirror: "You look cute today." Camera: "LOL, no."','alang'),
(43,13,39,'Life is like a mirror, we get the best results when we smile.','alappuzha'),
(44,18,39,'Smile at the world, and she'll smile back.','aldona'),
(45,35,20,'Keep the Smile On!','alibag'),
(46,25,24,'Please don't download my Selfie, you may fall in love with me.','aligarh'),
(47,35,45,'Silly girls are the best.','alipurduar'),
(48,45,28,'I am not a selfie expert.','allahabad'),
(49,22,9,'Life is better when you're smiling.','almora'),

(50,26,12,'I don't take selfies all the time, just every day.', 'aalananvara'),
(51,46,10,'Be the best version of yourself.', 'along'),
(52,28,39,'Beauty begins the moment you decide to be yourself.', 'alur'),
(53,38,46,'Do more of what makes you happy.', 'assam'),
(54,14,20,'Anti-You.', 'jammu and kashmir'),
(55,28,17,'Sometimes I'm in a selfie mood.', 'maharashtra'),
(56,29,17,'I am not taking a selfie, I am just checking my camera quality.', 'maharashtra'),
(57,15,36,'Animal selfies are the best selfies.', 'uttar pradesh'),
(58,49,28,'Selfie Time!', 'west bengal'),
(59,36,21,'Simplicity is the key to brilliance.', 'uttar pradesh'),
(60,46,33,'There is beauty in simplicity.', 'uttarakhand'),
(61,22,16,'Be obsessively grateful.', 'karnataka'),
(62,15,37,'May your day feel as good as taking this perfect selfie on the first try.', 'arunachal pradesh'),
(63,9,43,'I'm not lazy, just relaxed.', 'maharashtra'),
(64,33,4,'Dinner time is selfie time.', 'maharashtra'),
(65,50,30,'I must have no selfie control.', 'karnataka'),
(66,4,4,'All-natural.', 'maharashtra'),
(67,13,20,'May your day feel as good as taking this perfect selfie on the first try.', 'gujarat'),
(68,44,42,'My favorite part about this selfie is the invisible crown.', 'kerala'),
(69,16,23,'Keep calm and take a selfie.', 'goa'),
(70,17,39,'Some call it arrogant, I call it confidence.', 'uttar pradesh'),
(71,10,39,'I woke up like this; flawless.', 'gujarat'),
(72,28,14,'“Who said I was an angel?”', 'andhra pradesh'),
(73,20,47,'Bout to make me give you a reason to be insecure.', 'gujarat'),
(74,13,27,'Dress like you're already famous!', 'karnataka'),
(75,6,21,'You're not fully dressed until you sparkle.', 'andhra pradesh'),
(76,32,21,'Normal is boring for me.', 'kerala'),
(77,40,15,'I am not trying to be cool, It's what I am.', 'karnataka'),
(78,3,17,'I collect smiles, and then I give them away.', 'west bengal'),
(79,36,30,'A girl should be like a butterfly. Pretty to see, hard to catch.', 'karnataka'),
(80,25,14,'Queen of own world.', 'tripura'),
(81,41,2,'Being sexy is about attitude possessed, not a body type. It's a state of mind.', 'uttar pradesh'),
(82,32,32,'Sexy is being confident, independent, and having fun.', 'chhattisgarh'),
(83,15,6,'If you cannot do great things, do small things in a great way.', 'gujarat'),
(84,8,9,'She turned her can't into cans & her dreams into plans.', 'punjab'),
(85,19,28,'Coffee in one hand, Confidence in other.', 'maharashtra'),
(86,48,30,'Short hair, don't care.', 'maharashtra'),
(87,40,14,'Be your own reason to smile.', 'mizoram'),
(88,22,18,'Seek respect, not attention.', 'rajasthan'),
(89,49,48,'I dress to impress myself.', 'maharashtra'),
(90,32,12,'A smile is the best makeup a girl can wear.', 'chhattisgarh'),
(91,17,23,'She was like a moon, a part of her always stayed hidden.', 'kerala'),
(92,33,8,'Smile with your eyes.', 'jammu and kashmir'),
(93,19,40,'Life is too short to wear boring clothes.', 'maharashtra'),
(94,49,27,'Lift up your head princess, if not the crown falls.', 'The Red Fort, Delhi.'),
(95,41,3,'Dressing well is the best revenge.', 'The Taj Mahal, Agra.'),
(96,22,4,'I don't worry. I don't doubt it. I'm daring. I'm a rebel.', 'Pangong Lake, Ladakh.'),
(97,36,34,'Life happens, coffee helps.', 'Valley of Flowers, Nainital.'),
(98,6,34,'You must be bold, brave, and courageous and find a way... to get in the way.', 'Jaisalmer Fort, Jaisalmer.'),
(99,23,1,'Don't stop when you are tired. Stop when you are done!', 'Ruins of Hampi, Karnataka.'),
(100,31,45,'This is my moment I just feel so alive.', 'Ghats at Varanasi, Uttar Pradesh.');

INSERT INTO COMMENTS(comment_text ,post_id,user_id) VALUES

('great man',26,6),
(looking greate bhai',12,17),
(nice place keep enjoying',29,15),
(great bhai meetu soon ',49,21),
(aag lga di bhai',37,34),
(briallant keep working',3,34),
(soon will join you all',86,21),
(nice man !! loved it',81,28),
(bawnadar aayega abb ',83,48),
(boht tezz ho rhe ho ',38,23),
(bade acche ho beta',92,27),
(rakh neeche rakh teri toh',83,7),
(kaise ho bro',5,50),
(aag lga di h bss fire extinguisher bulana pdega',42,4),
(ek kahani h jo sabko sunnani h jakne wako ki toh rooh bhi jaalani h',59,25),
(mast h bhai , mill tabb btata hu kon mast h ',62,31),
(sahi lgg rha h bss ',27,8),
(I think this is the best I've seen till now.',83,36),
(Not enough for me, you are everything.',34,13),
(Just when I couldn't love you more. You posted this pic and my jaw dropped to the floor.',81,46),
(You are a symbol of beauty.',77,38),
(Surely you are the most beautiful woman alive, the most that I've seen.',96,19),
(You mean the world to me.',58,10),
(The word pretty is worthless without you.',64,44),
(You are the definition of Beauty',81,4),
(Flawless outstanding eccentric lovely beauty.',36,20),
(The stars, the moon, and the sun are minor to me since you sparkle brighter than all of them.',45,25),
(You are graceful.',21,47),
(Surely you would have been arrested if looking immensely beautiful was a crime.',3,46),
(You're an incredibly stunning, a really pretty, beautiful woman.',51,39),
(I guess this is your best look, you look beautiful in this outfit.',37,47),
(You look mesmerizing.',68,22),
(I wonder how cute you would be looking when you sleep.',6,35),
(You are so much lovely.',29,47),
(I love your curly hair.',2,14),
(Your dressing sense is appreciable.',39,41),
(You are the sweetest girl I have ever seen.',40,33),
(. I love that straight hair of yours.',79,29),
(You are pleasing.',45,35),
(Just 'WOW' for your natural beauty.',41,33),
(You are cute.',18,49),
(I love how comfortable you are in your world.',45,14),
(You are very much adorable.',39,5),
(You look even more pretty without makeup.',47,45),
(I feel so happy to be with you.',85,13),
(You are my safest place.',51,35),
(You look beautiful in that dress.',99,15),
(. I wish I had your makeup.',5,23),
(You are stunning.',78,14),

(' That natural beauty tho.',25,14),
('You have the most beautiful, sparkling eyes.',86,46),
('You have the most beautiful smile.',70,10),
(' Your sense of fashion is great.',70,22),
(' I like your hair.',25,32),
(' You look more beautiful than in the photo.',24,25),
(' You look stunning.',94,15),
('You're classy.',89,34),
('You're very trendy',100,1),
('Landscape/Scenery:',75,40),
('Great shot!',82,29),
('Nice shot!!',93,6),
('Love the view.',74,31),
('Did you have fun up there?',46,11),
('Selfie/picture of themselves:',13,25),
('Looking good!',31,7),
('Pretty/beautiful!',57,44),
('Handsome!',58,39),
('OH MAH GOSH!!',35,7),
(?????? (three heart-eyed emojis)',20,43),
('Sexy pose of themselves:',98,31),
('MESSY!',84,36),
('OMG!',29,42),
('OMG! Be my wife or dad already!!!',100,35),
('Hot',3,7),
(?????? (three heart-eyed emojis)',44,7),
('Wtf, how are you so pretty/handsome?',42,19),
('Wow!! In love!!',32,19),
('Classic',59,6),
('Picture of their outfit or OOTD (outfit of the day):',99,9),
('Ou la la',25,32),
('Gorgeous!!',12,25),
('Love your outfit!!',71,1),
('Looking good, man.',2,33),
('A picture of their pet/pets:',26,20),
('Soooooo cute!!',48,44),
('cute!',18,25),
('lovely pet you got there!',22,25),
('An inspirational quote:',36,48),
('Inspired! Thanks for the share.',66,12),
('Needed that, thanks!',11,35),
('I agree/disagree.',13,21),
('Inspirational',94,13),
('A picture of their family or children:',28,26),
('Lovely children.',29,20),
('Adorable kids, you got there!',76,20),
('They will grow up so fast!',6,23),
('I remember when they were X small!! Time flies by to fast!',80,24),
('A picture of their meal:',27,18),
('Looks delish! Did you cook that?!?',5,30),
('Yummy in my tummy. Yum!',87,15),
('Enjoy!!',18,16),

('??????(the drooling mouth emoji)',73,5),
(Death of a loved one:',30,31),
(Sorry for your loss. My condolences go to you and your family.',26,37),
(Rip (person's name).',80,49),
(Sorry for your loss, friend. If you need to talk, I'm always there for you.',48,43),
(My condolences.',56,5),
(Anniversary:',66,50),
(Congrats!',92,15),
(Congratulations on your X years of marriage/engagement!!',86,49),
(Woo!! Congrats newlywed!',26,44),
(I'm so happy for you.',16,24),
(Great shot!!',60,18),
(Clean shot!!',53,26),
(Crisp shot man.',88,11),
(I love the aesthetics of this picture.',39,13),
(The bookeh is dope',52,26),
(Great tones man',72,41),
(This one is classic',83,25),
(This one is fire',39,3),
(great concepts.',58,40),
(Beautiful picture, love the colors.',30,13),
(Woow!! Hands down!!',45,27),
(This is purely magic.',18,36),
(Your content is amazing.',19,6),
(Nice shot... etc etc :)',21,29),
(Your beauty is irresistible!!',49,25),
(You look energetic.',13,14),
(Impressive picture.',100,20),
(You look strong and confident.',95,49),
(This picture is lit!!!',20,9),
(Adorable picture.',59,45),
(Your smile makes me Happy.',5,39),
(Looking Gorgeous .',83,43),
(This picture made my day.',59,45),
(Your beauty has no boundaries.',3,12),
(My word can't describe your beauty!!',67,22),
(Your eyes sparkle like something I've never seen before.",27,8),
(Handsome hunk',35,15),
(That beard tho (if you go in for details)',86,50),
("That's dope",69,39),
(Nailed it',62,48),
(My squad',69,19),
(High af',67,11),
(Awesome',4,40),
(Bromantic',42,11),
(Hero',33,15),
(This boy is mine',94,18),
(My man',93,36),
(I own this male',49,8),
(He + me = forever',7,18),
(You mean the world to me',85,42),
(Cant get my eyes off',16,26),

('In nature, light creates the color. In the picture, color creates the light.',44,41),
('NICE GREAT',60,47),
('The beauty has no boundaries in this picture.',43,9),
('SUPER ',23,31),
('Your beauty is irresistible.',71,43),
('ADORABLE CHILL LIFE',83,30),
('Such a charming picture.',11,40),
('CHAL BE HERO',96,39),
('Elegant picture.',30,42),
('NICE PLACE AND WATVH',41,47),
('My words are less to describe this picture.',49,32),
('FDSAFDS',22,1),
('Beauty lies within for those who choose to see.',33,48),
('BASDHIYAYY',3,18),
('The power of beauty lies within the soul.',29,6),
('KICKASS LOKK!!!!!!!!!!!!!!!!!!!!!!',15,23),
('This picture is worth a thousand words.',41,47),
('GREAT TO SEE U ALIVE ',8,33),
('Beauty is power; a smile is its sword.',1,24),
('MSRJAA AJJRJKLFDSA',68,41),
('This place looks exotic.',2,46),
('DUBAI IS SLIVWE',61,36),
('I love how vibrant colors are in the picture.',10,18),
('GOOOD DATYYYYYYYYYYYYYYYYYYYYYYYYYYYY',38,20),
('Such a scenic view ,looks great.',64,49),
('WONDERFUL IMORESSIVE',69,16),
('Impressive picture.',4,28),
('AAGT LGADI BHAI MAJA AA GYA ',78,39),
('Adorable picture and Your smile makes me Happy.',42,30),
('such a nice cute humbke kind gentke face',1,1),
('Looking Gorgeous and This picture made my day. ', 61,1),
("Never seen a selfie of yours that I don't like. ", 29,48),
('You are the coolest. ', 97,27),
('You are the coolest. ', 69,19),
('You are the coolest. ', 25,15),
('You are the coolest. ', 66,23),
('Friends forever. ', 6,5),
('They say love is beautiful, but I say friendship is better. ', 13,9),
('AAGT LGADI BHAI MAJA AA GYA ', 26,32),
('Impressive picture. ', 72,39),
('MSRJAA AJJRJKLFDSA ', 23,31),
('COOL PIC ', 58,4),
('You are the coolest. ', 68,34),
('xing of public record ', 93,48),
('GREAT JOB ', 10,6),
('GOOOD DAY !!!!!!!!!!!!!!! ', 98,46);

INSERT INTO follows(follower_id, followee_id) VALUES

(46, 2), (21, 9), (23, 44), (29, 19), (36, 16), (20, 12), (7, 43), (22, 41), (13, 28), (22, 44), (13, 15), (25, 9),
(18, 50), (25, 17), (6, 28), (11, 3), (11, 39), (41, 1), (41, 28), (44, 36), (6, 27), (42, 1), (42, 23), (8, 32), (11, 22),
(33, 23),
(43, 40), (18, 42), (14, 50), (19, 30), (8, 26), (27, 11), (43, 33), (43, 7), (17, 35), (22, 13), (47, 10), (20, 32),
(7, 22), (18, 18),
(33, 38), (32, 24), (48, 14), (8, 23), (6, 40), (9, 48), (19, 38), (46, 25), (36, 50), (40, 7), (27, 25), (14, 22),
(26, 14), (10, 25),
(16, 33), (37, 50), (33, 3), (20, 30), (43, 43), (34, 49), (36, 18), (27, 46), (14, 12), (42, 10), (40, 9), (20, 4),
(39, 28), (25, 16),
(27, 5), (11, 40), (7, 24), (23, 7), (16, 31), (27, 28), (22, 31), (32, 12), (11, 42), (41, 37), (23, 50), (33, 5),
(32, 17), (30, 44),
(24, 2), (30, 1), (12, 38), (16, 47), (43, 5), (31, 46), (36, 22), (42, 50), (38, 15), (10, 50), (26, 43), (8, 17), (2, 28),
(22, 7), (13, 50),
(40, 48), (21, 35), (16, 1), (3, 40), (31, 16), (8, 42), (7, 48), (29, 38), (13, 49), (30, 18), (1, 2), (20, 49), (15, 47),
(8, 30),
(15, 20), (27, 13), (23, 11), (1, 37), (49, 38), (40, 6), (50, 41), (46, 29), (7, 17), (1, 41), (30, 15), (22, 21),
(46, 35), (30, 17),
(31, 31), (14, 49), (15, 37), (26, 44), (50, 48), (21, 39), (24, 40), (33, 49), (47, 29), (10, 38), (41, 10), (29, 50),
(2, 8), (42, 49),
(26, 35), (18, 21), (28, 49), (19, 20), (8, 49), (15, 21), (25, 27), (4, 5), (37, 37), (48, 31), (28, 39), (26, 30),
(37, 8), (26, 20), (24, 8),
(44, 1), (36, 31), (12, 7), (19, 13), (7, 8), (37, 47), (28, 35), (20, 27), (39, 23), (18, 19), (36, 21), (12, 46),
(28, 21), (45, 23), (35, 1),
(49, 30), (1, 25), (13, 46), (34, 37), (42, 35), (50, 29), (43, 25), (26, 4), (9, 45), (34, 18), (20, 3), (44, 3), (10, 20),
(50, 22), (23, 16),
(2, 50), (48, 46), (44, 34), (17, 8), (31, 12), (33, 9), (15, 38), (43, 14), (27, 1), (39, 10), (39, 19), (42, 16),
(34, 29), (33, 39), (13, 14),
(43, 13), (10, 16), (44, 50), (21, 8), (21, 15), (36, 14), (11, 24), (49, 32), (31, 44), (48, 29), (10, 31), (45, 33),
(10, 46), (4, 2), (24, 16),
(48, 5), (48, 6), (16, 11), (20, 37), (27, 35), (12, 12), (34, 1), (37, 25), (21, 3), (46, 24), (2, 29), (18, 43), (15, 36),
(16, 14), (41, 3),
(50, 2), (24, 20), (9, 14), (3, 43), (9, 19), (28, 32), (42, 41), (8, 11), (46, 11), (8, 27), (5, 47), (32, 25), (13, 9), (8,
3), (11, 9),
(25, 45), (33, 32), (15, 15), (5, 40), (36, 2), (28, 47), (36, 30), (43, 47), (19, 46), (44, 30), (23, 48), (50, 38), (23,
6), (48, 17), (7, 16),
(34, 34), (45, 14), (40, 20), (30, 8), (17, 3), (35, 48), (34, 13), (39, 38), (2, 47), (4, 30), (12, 41), (33, 18), (37, 6), (8,
6), (3, 24),
(40, 1), (16, 16), (32, 50), (40, 15), (29, 22), (5, 2), (48, 37), (33, 46), (5, 37), (24, 22), (46, 44), (12, 47), (6, 31), (37,
23), (24, 23),
(14, 21), (18, 10), (20, 28), (24, 17), (28, 19), (6, 13), (24, 24), (6, 19), (46, 41), (9, 25), (32, 37), (46, 39), (21,
41), (14, 40), (24, 33),
(41, 32), (15, 2), (42, 25), (14, 7), (35, 13), (2, 1), (35, 28), (45, 49), (35, 49), (18, 7), (45, 45), (2, 17), (4, 9), (23,
49), (30, 12),
(48, 2), (28, 7), (2, 12), (4, 45), (9, 8), (16, 19), (39, 32), (37, 31), (37, 9), (49, 17), (36, 46), (43, 50), (5, 48), (14,
5), (23, 25),
(47, 38), (14, 15), (23, 23), (47, 6), (26, 10), (7, 26), (8, 36), (33, 20), (48, 45), (40, 5), (8, 31), (49, 20), (44, 42), (20,
13), (29, 11),
(34, 32), (7, 23), (6, 36), (24, 44), (32, 39), (27, 36), (15, 46), (23, 36), (21, 49), (42, 4), (10, 22), (11, 14), (23,
21), (38, 20), (16, 26),

5. QUERIES

1) retrieve all users account creation information

```
SELECT user_id,username,created_at FROM users ORDER BY created_at;
```

user_id	username	created_at
1	kanavphull	28-04-2024 01:42
2	raj gupta	28-04-2024 01:42
3	Sahib Singh	28-04-2024 01:42
4	Sakshi Warandani	28-04-2024 01:42
5	Omnicon Larson	28-04-2024 01:42
6	dettol sharma	28-04-2024 01:42
7	sunil	28-04-2024 01:42
8	sanjay	28-04-2024 01:42
9	Axel Sivert Anker	28-04-2024 01:42
10	Steven	28-04-2024 01:42
11	Jack	28-04-2024 01:42
12	Oliver	28-04-2024 01:42
13	James	28-04-2024 01:42
14	Charlie	28-04-2024 01:42
15	Harris	28-04-2024 01:42
16	Lewis	28-04-2024 01:42
17	Leo	28-04-2024 01:42
18	Noah	28-04-2024 01:42
19	Alfie	28-04-2024 01:42
20	Rory	28-04-2024 01:42
21	Alexander	28-04-2024 01:42
22	Max	28-04-2024 01:42
23	Logan	28-04-2024 01:42
24	Harry	28-04-2024 01:42
25	Theo	28-04-2024 01:42
26	Thomas	28-04-2024 01:42
27	Brodie	28-04-2024 01:42
28	Archie	28-04-2024 01:42
29	Jacob	28-04-2024 01:42
30	Finlay	28-04-2024 01:42
31	Finn	28-04-2024 01:42
32	Daniel	28-04-2024 01:42
33	Joshua	28-04-2024 01:42
34	Oscar	28-04-2024 01:42
35	Arthur	28-04-2024 01:42
36	Hunter	28-04-2024 01:42
37	Ethan	28-04-2024 01:42
38	Mason	28-04-2024 01:42
39	Harrison	28-04-2024 01:42
40	Freddie	28-04-2024 01:42
41	Ollie	28-04-2024 01:42
42	Adam	28-04-2024 01:42
43	William	28-04-2024 01:42
44	Jaxon	28-04-2024 01:42
45	Aaron	28-04-2024 01:42
46	Cameron	28-04-2024 01:42
47	Liam	28-04-2024 01:42
48	George	28-04-2024 01:42
49	Jamie	28-04-2024 01:42
50	Callum	28-04-2024 01:42

2) Retrieve the most active users

SELECT user_id, username AS 'Most active User' FROM users

WHERE user_id NOT IN (SELECT user_id FROM post);

user_id	Most active User
19	Alfie
50	Callum
29	Jacob
49	Jamie
38	Mason
41	Ollie
5	Omnicorn Larson
26	Thomas

3) Get the number of posts each user has made

SELECT user_id, COUNT(*) AS post_count FROM post GROUP BY user_id;

user_id	post_count
1	2
2	1
3	3
4	3
6	3
7	2
8	2
9	3
10	1
11	1
12	4
13	1
14	5
15	3
16	1
17	4
18	2
20	4
21	3
22	1
23	2
24	2
25	2
27	4
28	3
30	6
31	2
32	3
33	2
34	2
35	1
36	1
37	2
39	5
40	2
42	1
43	1
44	1
45	4
46	1
47	2
48	2

4) Retrieve posts with more than 5 comments

```
SELECT post_id, COUNT(*) AS comments_count FROM comments  
GROUP BY post_id HAVING COUNT(*) > 5;
```

Result Grid		Filter Rows:
post_id	comments_count	
29	6	
83	6	

5) Retrieve posts with location

```
SELECT * FROM post WHERE location IN ('agra', 'maharashtra', 'west bengal');
```

post_id	photo_id	user_id	caption	location	created_at
25	31	27	:::@	agra	28-04-2024 01:42
55	28	17	Sometimes I'm in a selfie mood.	maharashtra	28-04-2024 01:42
56	29	17	I am not taking a selfie, I am just checking my camera quality.	maharashtra	28-04-2024 01:42
58	49	28	Selfie Time!	west bengal	28-04-2024 01:42
63	9	43	I'm not lazy, just relaxed.	maharashtra	28-04-2024 01:42
64	33	4	Dinner time is selfie time.	maharashtra	28-04-2024 01:42
66	4	4	All-natural.	maharashtra	28-04-2024 01:42
78	3	17	I collect smiles, and then I give them away.	west bengal	28-04-2024 01:42
85	19	28	Coffee in one hand, Confidence in other.	maharashtra	28-04-2024 01:42
86	48	30	Short hair, don't care.	maharashtra	28-04-2024 01:42
89	49	48	I dress to impress myself.	maharashtra	28-04-2024 01:42
93	19	40	Life is too short to wear boring clothes.	maharashtra	28-04-2024 01:42

6) Retrieve the posts made by a specific user (e.g., user_id = 15):

```
SELECT * FROM post WHERE user_id = 15;
```

Result Grid		Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
post_id	photo_id	user_id	caption	location	created_at
34	2	15	This is how to become a heart breaker.	akalpara	2024-04-28 01:42:41
37	7	15	Nobody's perfect..but I'm close.	akkalkot	2024-04-28 01:42:41
77	40	15	I am not trying to be cool, It's what I am.	karnataka	2024-04-28 01:42:41
NULL	NULL	NULL	NULL	NULL	NULL

7) Identify the most commented post:

```
SELECT post_id, COUNT(*) AS comment_count FROM comments  
GROUP BY post_id ORDER BY comment_count DESC LIMIT 1;
```

Result Grid		Filter Rows:
post_id	comment_count	
29	6	

8) Calculate the total number of followers each user has:

```
SELECT user_id,username,COUNT(follower_id) AS total_followers FROM users LEFT JOIN follows  
ON user_id = follower_id GROUP BY user_id,username ORDER BY total_followers DESC;
```

user_id	username	total_followers
8	sanjay	14
23	Logan	12
48	George	11
42	Adam	11
33	Joshua	11
24	Harry	11
43	William	10
11	Jack	10
14	Charlie	10
20	Rory	10
10	Steven	10
6	dettol sharma	10
36	Hunter	10
16	Lewis	9
27	Brodie	9
46	Cameron	9
44	Jaxon	9
40	Freddie	9
37	Ethan	9
15	Harris	9
7	sunil	9
21	Alexander	8
28	Archie	8
45	Aaron	8
30	Finlay	8
18	Noah	8
13	James	8
34	Oscar	8
2	raj gupta	8
26	Thomas	8
50	Callum	7
32	Daniel	7
22	Max	7
12	Oliver	7
41	Ollie	6
19	Alfie	6
9	Axel Sivert Anker	6
39	Harrison	6
49	Jamie	6
29	Jacob	5
31	Finn	5
35	Arthur	5
25	Theo	5
5	Omnicorn Larson	5
4	Sakshi Warandani	5
47	Liam	4
38	Mason	4
1	kanavphull	4
3	Sahib Singh	3
17	Leo	3

9) Find the user who has most comment on the posts

```
SELECT user_id, COUNT(*) AS comments_count FROM comments  
GROUP BY user_id ORDER BY comments_count DESC LIMIT 1;
```

Result Grid		Filter Rows:
	user_id	comments_count
▶	25	9

THANK YOU !!!