

## 1) View users' all posts and display the number of likes and number of comments to that post.

```
SELECT p.post_id,count(*) total_comments FROM "socialNetworkSystem"."Posts" p
LEFT JOIN "socialNetworkSystem"."PostComments" pc
ON p.post_id = pc.post_id
WHERE p.post_id
IN
(SELECT post_id FROM "socialNetworkSystem"."Posts" WHERE user_id = 1)
GROUP BY p.post_id;
```

```
SELECT p.post_id,count(*) total_likes FROM "socialNetworkSystem"."Posts" p
LEFT JOIN "socialNetworkSystem"."PostLikes" pl
ON p.post_id = pl.post_id
WHERE p.post_id
IN
(SELECT post_id FROM "socialNetworkSystem"."Posts" WHERE user_id = 1)
GROUP BY p.post_id;
```

```
SELECT pc.post_id,pc.comment_id,count(cl.user_id) total_comment_likes FROM
"sociAlNetworkSystem"."PostComments" pc
LEFT JOIN "socialNetworkSystem"."CommentLikes" cl
ON pc.comment_id = cl.comment_id
WHERE pc.post_id
IN
(SELECT post_id FROM "socialNetworkSystem"."Posts" WHERE user_id = 1)
GROUP BY pc.post_id,pc.comment_id;
```

## 2) Display the comments posted by the user.

```
SELECT post_id, comment_content, timestamp
FROM "socialNetworkSystem"."PostComments"
WHERE user_id = 10;
```

### 3) Display the Page name, number of followers of that Page and admin of that Page.

```
SELECT page_name, u.first_name || ' ' || u.laSt_name AS Admin, COUNT(DISTINCT f.user_id) AS
total_followers
FROM "socialNetworkSystem"."Pages" AS p
LEFT JOIN "socialNetworkSystem"."Followers" AS f
ON p.page_id = f.page_id
JOIN "socialNetworkSystem"."Users" AS u
ON p.user_id = u.user_id
WHERE p.page_id = 15
GROUP BY p.page_name, u.first_name, u.laSt_name, u.user_id;
```

### 4) Display the Members of the particular Page.

```
SELECT u.user_id, u.first_name || ' ' || u.laSt_name AS username
FROM "socialNetworkSystem"."Followers" AS p
JOIN "socialNetworkSystem"."Users" AS u
ON u.user_id = p.user_id
WHERE p.page_id = 1
```

### 5) Display post which don't have any like.

```
SELECT p.post_id, COUNT(pl.user_id) total_likes
FROM "socialNetworkSystem"."Posts" p
LEFT JOIN "socialNetworkSystem"."PostLikes" pl
ON pl.post_id = p.post_id
GROUP BY p.post_id
HAVING COUNT(pl.user_id) < 1
```

## 6) Display post which don't have any comment.

```
SELECT p.post_id, COUNT(pc.user_id) total_comments
FROM "socialNetworkSystem"."Posts" p
LEFT JOIN "socialNetworkSystem"."PostComments" pc
ON pc.post_id = p.post_id
GROUP BY p.post_id
HAVING COUNT(pc.user_id) < 1
```

## 7) Display Posts to particular Page and also display the user's name who posted it in latest to old order.

```
SELECT u.user_id,p.post_id, u.first_name || ' ' || u.last_name username
FROM "socialNetworkSystem"."Posts" p
JOIN "socialNetworkSystem"."Users" u
ON u.user_id = p.user_id
WHERE page_id = 1
ORDER BY timestamp DESC
```

## 8) Display All the details of Particular Post.(Like ,comment,comment like)

```
SELECT * FROM "socialNetworkSystem"."Posts" p
JOIN "socialNetworkSystem"."PostComments" pc
ON pc.post_id = p.post_id
WHERE p.post_id = 1
```

```
SELECT count(*) total_likes
FROM "socialNetworkSystem"."PostLikes"
WHERE post_id = 1
```

```
SELECT pc.comment_id ,COUNT(cl.user_id) total_comment_likes
FROM "socialNetworkSystem"."PostComments" pc
LEFT JOIN "socialNetworkSystem"."CommentLikes" cl
ON pc.comment_id = cl.comment_id
WHERE pc.comment_id IN
(SELECT comment_id FROM "socialNetworkSystem"."PostComments"
WHERE post_id = 1)
GROUP BY pc.comment_id
```

### 9) Display All information of particular User.

```
SELECT * FROM "socialNetworkSystem"."Users"  
WHERE user_id = 1
```

### 10) Display user notifications of particular User in latest to old.

```
SELECT * FROM "socialNetworkSystem"."Notifications" n  
JOIN "socialNetworkSystem"."UserNotification" un  
ON n.notification_id = un.notification_id  
WHERE user_id = 1  
ORDER BY timestamp DESC
```

### 11) Display Saved post of particular User in latest to old.

```
SELECT * FROM "socialNetworkSystem"."SavedPosts"  
WHERE user_id = 1  
ORDER BY timestamp DESC
```

### 12) Display all friend and count total friend of partiular User.

```
SELECT COUNT(*) FROM "socialNetworkSystem"."Friends" f  
JOIN "socialNetworkSystem"."Users" u  
ON u.user_id = f.friend_id  
WHERE (f.user_id = 2 or f.friend_id = 2) AND request_status = '1'
```

### 13) Display all pages details with more than 1000 followers.

```
SELECT * FROM "socialNetworkSystem"."Pages"  
WHERE page_id IN  
(SELECT f.page_id FROM "socialNetworkSystem"."Pages" p  
JOIN "socialNetworkSystem"."Followers" f  
ON p.page_id = f.page_id  
GROUP BY f.page_id  
HAVING COUNT(f.user_id) > 1000)
```

#### **14) Display All users who have birthdays today.**

```
SELECT first_name || ' ' || last_name AS user_name FROM "socialNetworkSystem"."Users"
WHERE EXTRACT(MONTH FROM dob) = EXTRACT(MONTH FROM CURRENT_DATE)
AND
EXTRACT(DAY FROM dob) = EXTRACT(DAY FROM CURRENT_DATE)
```

#### **15) Display All Users who are older than 18 years.**

```
SELECT * FROM "socialNetworkSystem"."Users"
WHERE EXTRACT(YEAR FROM age(CURRENT_DATE,dob)) > 18
```

#### **16) Display All This month saved post of particular User.**

```
SELECT * FROM "socialNetworkSystem"."SavedPosts" sp
JOIN "socialNetworkSystem"."Posts" p
ON p.post_id = sp.post_id
WHERE EXTRACT(MONTH FROM sp.timestamp) = EXTRACT(MONTH FROM CURRENT_DATE)
AND EXTRACT(YEAR FROM sp.timestamp) = EXTRACT(YEAR FROM CURRENT_DATE)
```

#### **17) Display All last 7 saved post of particular User.**

```
SELECT * FROM "socialNetworkSystem"."SavedPosts" sp
JOIN "socialNetworkSystem"."Posts" p
ON p.post_id = sp.post_id
WHERE (CURRENT_DATE::date - sp.timestamp::timestamp::date) < 60
```

## 18) Display All friend request of particular user.

```
SELECT u.user_id, u.first_name || ' ' || u.last_name username
FROM "socialNetworkSystem"."Friends" f
JOIN "socialNetworkSystem"."Users" u
ON u.user_id = f.user_id
WHERE (f.friend_id = 1) AND request_status = '2'
```

UNION

```
SELECT u.user_id, u.first_name || ' ' || u.last_name username
FROM "socialNetworkSystem"."Friends" f
JOIN "socialNetworkSystem"."Users" u
ON u.user_id = f.friend_id
WHERE (f.user_id = 1) AND request_status = '2'
```

## 19) Compute Age of Particular User.

```
SELECT AGE(CURRENT_DATE,dob) FROM "socialNetworkSystem"."Users"
WHERE user_id = 2
```

## 20) Display All friends Details of Particular User.

```
SELECT u.first_name || ' ' || u.last_name username,u.email,u.phone_number,u.gender,u.dob
FROM "socialNetworkSystem"."Friends" f
JOIN "socialNetworkSystem"."Users" u
ON u.user_id = f.user_id
WHERE (f.friend_id = 2) AND request_status = '1'
```

UNION

```
SELECT u.first_name || ' ' || u.last_name username,u.email,u.phone_number,u.gender,u.dob
FROM "socialNetworkSystem"."Friends" f
JOIN "socialNetworkSystem"."Users" u
ON u.user_id = f.friend_id
WHERE (f.user_id = 2) AND request_status = '1'
```

## **21) Display messages of particular user by latest to old.**

```
SELECT message,timestamp FROM "socialNetworkSystem"."Messages"  
WHERE ((sender = 11 AND receiver = 14)  
OR (sender = 14 AND receiver = 11))  
ORDER BY timestamp DESC
```

## **22) Display All comment Detail from particular comment.**

```
SELECT * FROM "socialNetworkSystem"."PostComments"  
WHERE comment_id = 1
```