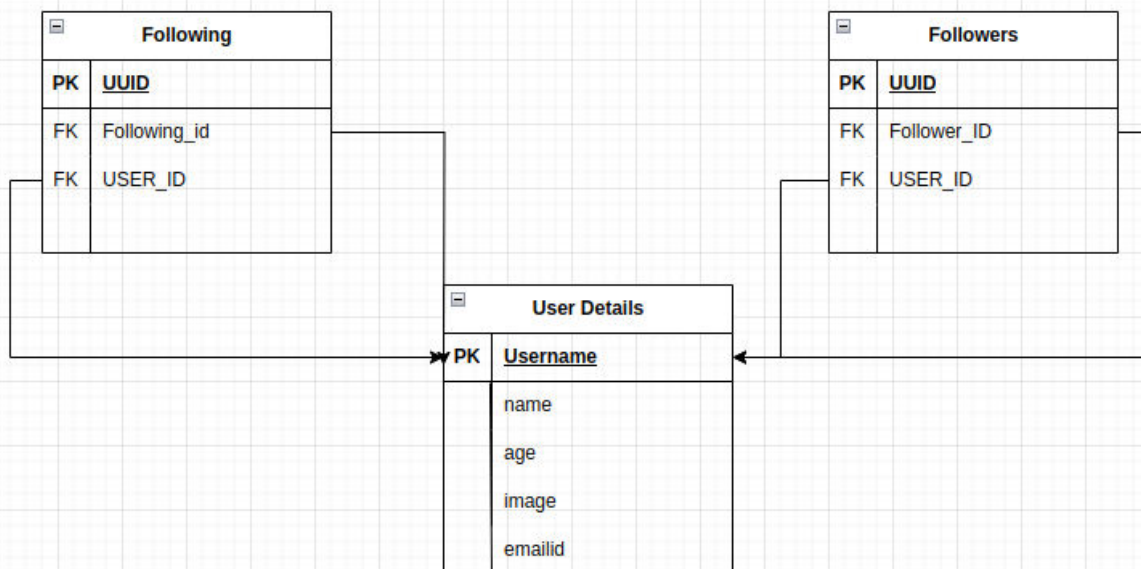# SCHEMA DESIGN for following condition

1. **User should be able to follow other user.**
2. **User should be able to unfollow other user.**
3. **User should be able to see total followers and following count.**
4. **User should be able to see followers list.**
5. **User should be able to see following list.**
6. **User should be able to remove follower or following. [single follower at once]**
7. **User should be able to see profile of another user.**
8. **User profile should consist basic details**
a. **name**
b. **image**
c. **age**
d. **username**
e. **EmailId**

Following	
PK	UUID
FK	Following_id
FK	USER_ID

Followers	
PK	UUID
FK	Follower_ID
FK	USER_ID

User Details	
PK	Username
	name
	age
	image
	emailid

Queries are

1. User should be able to follow other user.

    INSERT INTO followers VALUES(' ',' ');

2. User should be able to unfollow other user.

    DELETE FROM followers WHERE USER_ID=' ' & follower_ID=' ';

3. User should be able to see total followers and following count.

    SELECT COUNT(UUID) FROM follower where user_id=' '

    SELECT COUNT(UUID) FROM following where user_id=' '

4. User should be able to see followers list.

    Select user_details.name
    from user_details
    JOIN Followers ON username=user_id
    where user_id=' '

5. User should be able to see following list.

    Select user_details.name
    from user_details
    JOIN following ON username=user_id
    where user_id=' '

6. User should be able to remove follower or following. [single follower at once]

    DELETE FROM followers WHERE USER_ID=' ' & follower_ID=' ';

7. User should be able to see profile of another user.

    SELECT * from user_details where Username=' ' & username <>' '

Assignment questions

Q. Find all the comments for phoyod woth id=3 ,along with the username of the comment author?

SELECT comments.contents,users.username
FROM COMMENTS JOIN photos
ON comments.photo_id=photos.id
JOIN users
on comments.user_id=users.id
WHERE photos.id=3

Q find the photo with the most comments attached to it?

SELECT COUNT(comments.id) AS counter,comments.photo_id
FROM comments
GROUP BY comments.photo_id
ORDER BY counter desc
LIMIT 1;

Q find the photo id=10 & get the number of comment attached to it?

SELECT COUNT(comments.id) AS counter , comments.photo
FROM comments
GROUP BY comments.photo_id
HAVING photo_id=10

Q. Find the user with the most activity(most comment + most photos)

SELECT users.id, users.username,
COUNT(comments.id) AS num_comments,
COUNT(photos.id) AS num_photos
FROM users
JOIN comments ON users.id = comments.user_id
JOIN photos ON users.id = photos.user_id
GROUP BY users.id, users.username
ORDER BY (COUNT(comments.id)+COUNT(photos.id)) DESC
LIMIT 1

Q Find the average number of comment per photo

SELECT AVG(comment_count) AS avg_comment
FROM (
SELECT COUNT(*) AS comment_count
FROM COMMENTS
GROUP BY photo_id
AS avg_comment_count;

Q Calculate average number of characters per comments?

```
SELECT AVG(LENGTH(contents))
FROM COMMENTS;
```