

## SOCIAL MEDIA DATABASE ER MODEL

### 1. REQUIREMENTS Engineering (features and use case)

1. User\_profile **have** friends & friends are also users
2. User **can** post
3. Post contains text, images and videos
4. Post have likes and comments

### 2. ENTITY SETS

1. User\_profile
2. User\_post
3. Post comment
4. Post like

### 3. ATTRIBUTE AND TYPES

1. **User\_profile**-name(composite),username(primary key), email(multivalued),password,contact(multivalued),DOB,age(derived)
2. **User\_post**- post\_id ,text\_content,images(multivalued),videos(multivalued),created\_timestamp,modified\_timestamp
3. **Post\_comment**-post\_comment\_id,text\_content,time\_stamp
4. **Post\_like**-post\_like\_id,timestamp;

### 4. RELATION AND CONSTRAINTS

1. user\_profile **friendship** user\_profile(M:N)
2. user\_profile **posts** user\_post(1:N)
3. user\_profile **can** post\_likes(1:N)
4. user\_profile **comments** post\_comments(1:N)
5. user\_post **has** post\_comments(1:N)
6. user\_post has post\_likes

