ER Model of Instagram

Lets start with what is instagram?

Instagram is a social media platform that allows users to share photos and videos.

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Now what all things we can do on instagram?

- Create our profile
- Add profile picture and details
- Connect with friends
- Upload a post
- Like and comment on post
- Share stories
 and much more

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Lets start with all the steps needs to draw an ER diagram.

Step-1: Recognize entities sets

Entities

- userProfile
- userFriends
- userPost
- userLogin

userLikes

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Step-2: Specify entity characteristics/attributes

Attributes

1. userProfile (user ID, username, email, profile pic)

user ID- primary key
userName- composite attribute
email - single valued attribute
profile pic - single valued attribute
dob- stored attribute
age- derived attribute

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Step-2: Specify entity characteristics/attributes

Attributes

2. userFriends (followerID, followerName, userID)

followerID- primary key followerName - single valued attribute userID - single valued attribute

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Step-2: Specify entity characteristics/attributes

Attributes

3. userPost (post ID, caption, image, video, likesCount, timestamp)

post ID- primary key
caption - single valued attribute
image - multi valued attribute
video - multi valued attribute
likesCount - single valued attribute
timestamp - single valued attribute

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Step-2: Specify entity characteristics/attributes

Attributes

4. userLogin (login ID,loginUserName,loginPassword)

login ID- primary key loginUserName - single valued attribute loginPassword - multi valued attribute

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Step-2: Specify entity characteristics/attributes

Attributes

4. userLikes (postID, userID)

postID- primary key userID - single valued attribute

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Step-2: Discover connections/relationships(also contraints like mapping/participation)

1.userProfile have userFriends (n:n)

- 2. userProfile have userPost (1:n) userPost will always be associated to a userProfile therefore total participation
- 3. userProfile has userLogin (1:1)
- 4. userProfile has userLikes (1:n) userLikes will always be associated to a userProfile therefore total participation

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Step-2: Discover connections/relationships(also contraints like mapping/participation)

- 5. userFriends have userPost (1:n) userPost will always be associated to a userProfile therefore total participation
- 6. userFriends has userLogin (1:1)
- 7. userFriends has userLikes (1:n) userLikes will always be associated to a userProfile therefore total participation

