## Entity Relationship Diagram:

1.

Object	<u>Attributes</u>
Posts	User ID
	Post Date
	Post Content
	Post ID
Post Likes	Post ID
	User ID
Photos	Post ID
	Photo ID
	Image Content
Shares	Post ID
	User ID
Comments	Comment ID
	Comment Date
	Post ID
	User ID
	Comment Content
Comment Likes	Comment ID
	User ID
Users	User ID
	First Name
	Last Name
	• School
	• Address
	• Email
	Phone Number
	• Location
	Date of Birth
	Gender
Friends	Friend ID
	User ID
Pages	Page ID
	Page Name
	Page Content
Page Likes	User ID
	Page ID

## 2. S

Master	Child
Users	Posts
Users	Post Likes
Posts	Post Likes
Posts	Photos
Users	Shares
Posts	

Users	Comments
Posts	Comments
Comment	Comment Likes
Users	Comment Likes
Users	Friends
Pages	Page Likes
Users	Page Likes

## 3. \*FK = Foreign Key

<u>Object</u>	Constraint
Posts	<ul> <li>Users, because Posts has Users ID as its</li> </ul>
	FK, so it has dependency to Users, so
	the constraint is Users.
Post Likes	<ul> <li>Posts, because Post Likes has Posts ID</li> </ul>
	as its FK, so it has dependency to Posts,
	so the constraint is Posts.
	<ul> <li>Users, because Post Likes has Users ID</li> </ul>
	as its FK, so it has dependency to Users,
	so the constraint is Users.
Photos	<ul> <li>Posts, because Photos has Post ID as its</li> </ul>
	FK, so it has dependency to Posts, so
	the constraint is Posts.
Shares	Posts, because Shares has Post ID as its
	FK, so it has dependency to Posts, so
	the constraint is Posts.
	Users, because Shares Likes has Users
	ID as its FK, so it has dependency to
	Users, so the constraint is Users.
Comments	Posts, because Comments has Post ID
	as its FK, so it has dependency to Posts,
	so the constraint is Posts.
	Users, because Comments has Users ID     is the dependency to Head
	as its FK, so it has dependency to Users,
Comment Likes	so the constraint is Users.
Comment likes	Comments, because Comment Likes  has Comment ID as its EK, so it has
	has Comment ID as its FK, so it has dependency to Comments, so the
	constraint is Comments.
	Users, because Comment Likes has
	Users ID as its FK, so it has dependency
	to Users, so the constraint is Users.
Users	-
Friends	Users, because Friends has Users ID as
menus	its FK, so it has dependency to Users, so
	the constraint is Users.
Pages	-
Page Likes	Users, because Page Likes has Users ID
	as its FK, so it has dependency to Users,
	so the constraint is Users.

<ul> <li>Pages, because Page Likes has Page ID</li> </ul>
as its FK, so it has dependency to Pages,
so the constraint is Pages.

## Attributes constraint:

- ID: integer of length 5

- Date: must be a date format (e.g. dd/mm/yyyy)

- Email: email format

- Phone Number: phone number (char type)

- Date of Birth: must be a date format

- Gender: Male / Female

4.

