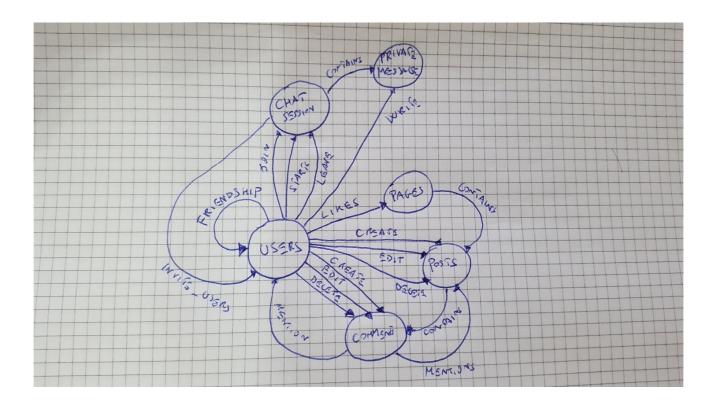
## **Graphs in Every Day Life Assignment**

Amit Pandit 04-09-2019, Coursera, Big Data Specialization- UC San Diego



I thought a simple Social Network with a basic functionality such as create posts, comments them, ask friendship, chat and likes pages. Below the lists of nodes and edges.

A Social Network like this could provide tons of questions and answers, for example:

- Who are the influencer of the network? Users with lots of friends and Pages with lots of likes are the best candidates to be defined as such. A useful metric is Degree of Centrality.
- What are the trending topic/posts? We can retrieve the trending topic based on the numbers of interactions such comments and likes and compute TF-IDF for each returned comment.
- What are the most active Users? Users (or Pages) with N likes or comments X day (maybe 10?) is very active!
- What are the suggested Users for each User? We should find the closest non-friend neighbors and suggest to each user respectively.

ID	NODE	
1	Users	
2	Pages	
3	Posts	
4	Comments	
5	Chat Sessions	
6	Private Messages	

1 1 Friendships   1 2 Likes   1 3 Creates   1 3 Deletes   1 4 Creates   1 4 Edits   1 4 Likes   1 4 Likes   1 5 Starts   1 5 Leaves   1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
1 3 Creates   1 3 Deletes   1 4 Creates   1 4 Edits   1 4 Deletes   1 4 Likes   1 5 Starts   1 5 Leaves   1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 3 Deletes   2 4 Creates
1 3 Edits   1 3 Deletes   1 4 Creates   1 4 Edits   1 4 Deletes   1 4 Likes   1 5 Starts   1 5 Leaves   1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
1 3 Deletes   1 4 Creates   1 4 Edits   1 4 Deletes   1 4 Likes   1 5 Starts   1 5 Leaves   1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
1 4 Creates   1 4 Edits   1 4 Deletes   1 4 Likes   1 5 Starts   1 5 Leaves   1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
1 4 Edits   1 4 Deletes   1 4 Likes   1 5 Starts   1 5 Leaves   1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
1 4 Deletes   1 4 Likes   1 5 Starts   1 5 Leaves   1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
1 4 Likes   1 5 Starts   1 5 Leaves   1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
1 5 Starts   1 5 Leaves   1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
1 5 Leaves   1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
1 5 Joins   1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
1 6 Writes   2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
2 3 Creates   2 3 Edits   2 3 Deletes   2 4 Creates
2 3 Edits   2 3 Deletes   2 4 Creates
2 3 Deletes 2 4 Creates
2 4 Creates
2 4 Edits
2 4 Deletes
4 1 Mentions
4 2 Mentions
5 1 Invite
5 Contains
2 3 Contains
3 4 Contains