In Class Exercise 3

For this exercise, you would need two files vertices\_file.csv and edges\_file.csv. They are on LMS under Session 7

Q1

Create a Graph out of vertices\_file.csv and edges\_file.csv.

Hint: First create two dataframes. And then create a graph.

Q2

Write graph (not SQL) commands to output vertices, edges, incoming degrees, outgoing degrees, and total degrees.

Q3

Group people with experience and show the count in each group

Q4

Find all such relationships where any two people are related to each other directly (without regard to type of relationship), and give count of number of such relationships.

Q5

From the answer in Q4 find out only those relationships where both people are from same city, and give count of number of such relationships.

Q6

Run a PageRank algorithm. Who are the top 10 most influential (connected) members in the batch

Q7

Find the shortest path between any two group members such that the longest path can be 4 and relationship is not 5 for any of the paths.