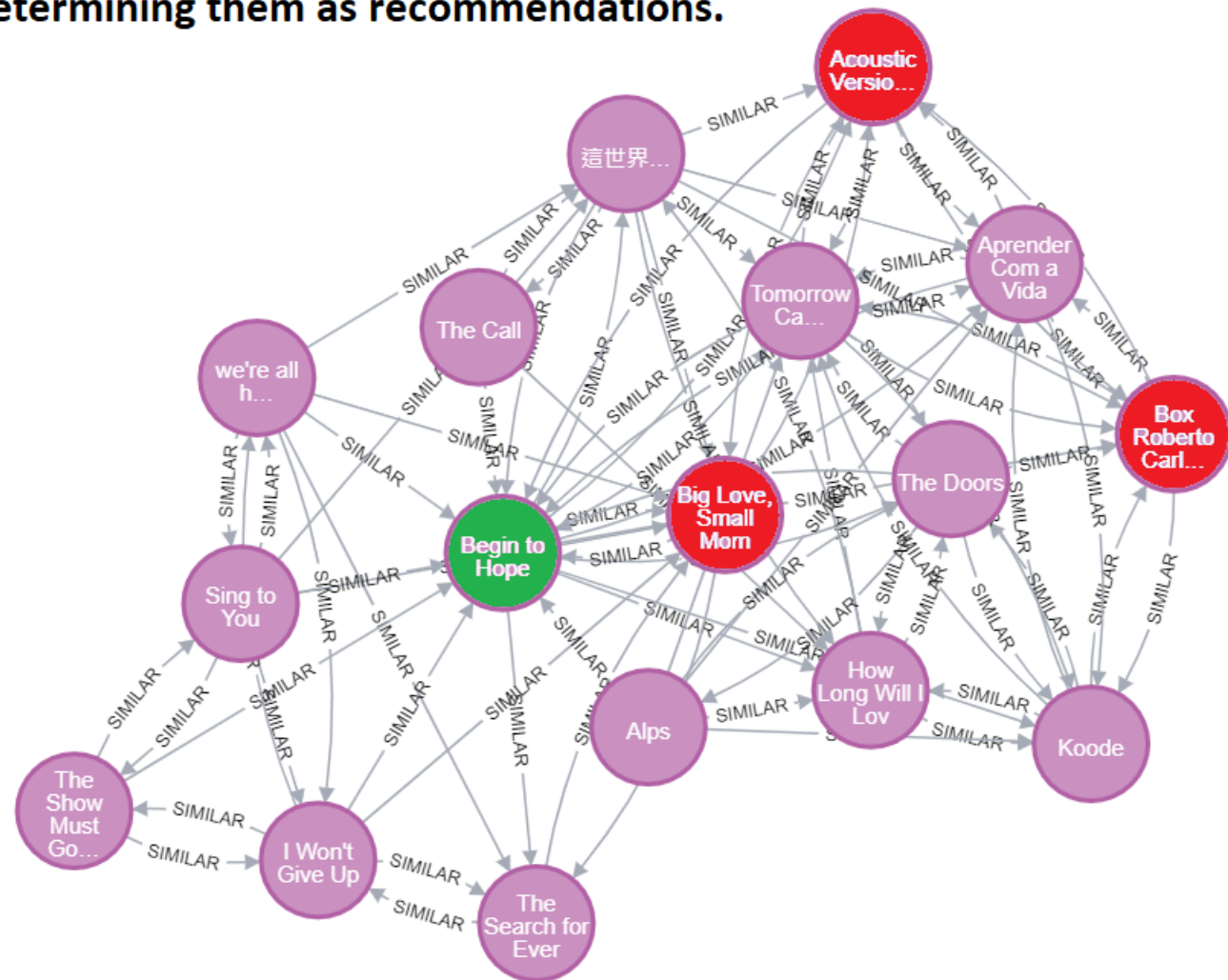
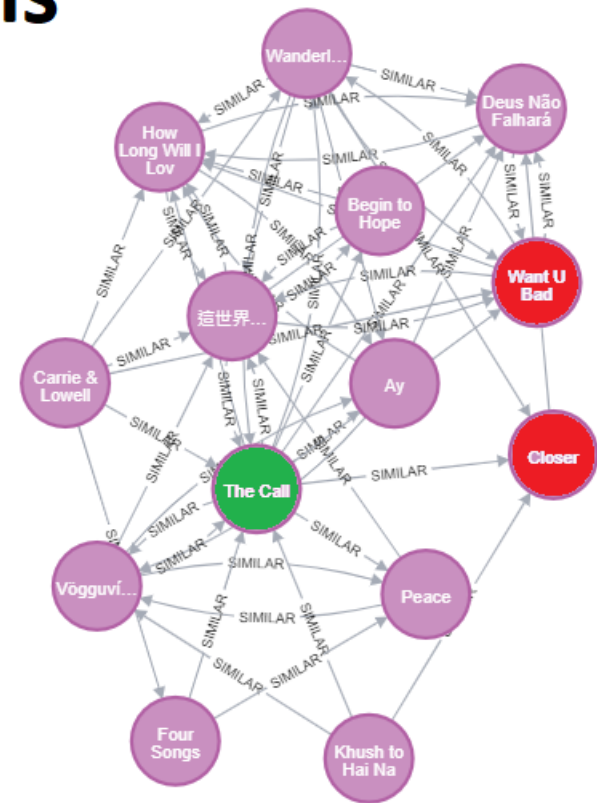


# DS4300 HW4: Spotify Recommendations

Song	Artist	Album
Dusk Till Dawn - Acoustic	Blame Jones	Acoustic Versions
Abrázame Así - Versão Remasterizada	Roberto Carlos	Box Roberto Carlos Anos 90
Want U Bad	Fern.	Want U Bad
Big Love, Small Moments	JJ Heller	Big Love, Small Moments
Closer	Ysabelle Cuevas	Closer

We took a random sample of 2,500 songs from the full dataset and then inserted the Regina Spektor songs if they weren't included in the subset. In the graph, a node represents a song (represented as a "Track") including features such as genre, loudness, liveliness, among others. We chose to use ten categories, 'popularity', 'explicit', 'danceability', 'energy', 'loudness', 'speechiness', 'acousticness', 'instrumentalness', 'liveness', and 'valence', we determined to be most impactful. Each node gets relationships with others called "SIMILAR," which is added when a Track is sufficiently similar to another, with each Track pointing to the ten most similar other Tracks. We then found the Regina Spektor tracks and found the five songs with the lowest euclidean distance to any of these tracks, determining them as recommendations.



Nodes: 2,503  
Edges: 25,030