

Exercise 2: Interpreting the Results

Now that you have created a visual analytics tool to visualize the graph data, use your tool to investigate and answer the following questions:

a) Describe the overall topology (structure) of the graph. Are there any interesting patterns or anomalies?

There seems to exist two big clusters (which are connected) and many small ones with edges leading into the cluster(s)
But everything is interconnected (exceptions stated later)
Each continent has a rather fully connected graph

Somehow the countries in America didn't have a value in "continent" - changed that
Dubai and Munich only have two runways... thought that would be more
KRP has 5 runways but has few outgoing connections
FRA (Frankfurt) has more runways than expected
LCJ (and some more) has gibberish in "city" and "descr" (saw that in the csv file using excel - maybe different formatting necessary)
MHG not connected to any airport(s)
Some airports only connected to one other airport (GMZ, AUR, LAI, etc.)
Some airports not international (WLG connected to MEL, AKL, SYD, BNE - all in continent "OC")

b) Identify the continent with the highest number of airports in the data.
EU

c) Find all airports with exactly seven runways
DFW, ORD