## Level 3 challenge: Linkage between multiple view

This task focuses on visualizing the collaboration relationship between researchers. A JSON format data containing the collaboration records among professors in HKUST is provided. You can find the data in <a href="https://html.ncbi.nlm.n

You need to extract the subgraph of **CSE** (i.e., extract the collaboration subgraph consisting of all the professors from **CSE**), and visualize them in two forms: a node-link diagram and a matrix view.

Here are the basic requirements:

- For the node-link diagram, the nodes indicate professors and the edges indicate collaborations. You are encouraged to use the force-directed layout provided by D3. The radii of nodes represent the total number of collaborators of each professor.
- 2. For the matrix view, the x and y direction indicate professors, and cells indicate the corresponding collaborations. You can use color or glyph to encode the total number of collaborations.
- 3. Linkage: when hovering the mouse on node in the node-link diagram, the corresponding column and row of the matrix view should be highlighted; when hovering on a cell in the matrix view, the corresponding nodes and edges should be highlighted as well.
- 4. You are encouraged to sort the matrix rows and columns and add animations to your implementation.

## An example is like this:

