## **Visualization**

Number of nodes in individual cluster/Number of reviews per cluster

The above diagrams tells clearly that the reviews are mostly clustered in a single cluster.

Form a graph with nodes as cluster id(virtual) and the top 10 frequent words as nodes and edges as their occurrence in cluster nodes and printing other details along with the visualization of the graph.

```
In [10]: print(nx.info(G))

Name:
    Type: Graph
    Number of nodes: 40
    Number of edges: 160
    Average degree:    8.0000

In [11]: print('Components', nx.number_connected_components(G))
    print('Density',nx.density(G))
    print('Density',nx.density(G))
    Components 1
    Density 0.20512820512820512
    Degree [(1, 10), ('room', 1), ('burger', 1), ('would', 16), ('get', 16), ('one', 16), ('good', 14), ('like', 16), ('plac e', 12), ('time', 16), ('us', 6), (2, 10), ('food', 11), ('great', 8), ('service', 6), (3, 10), ('really', 1), (4, 10), ('back', 8), ('said', 2), ('told', 3), (5, 10), (6, 10), ('hair', 1), ('company', 1), ('cut', 1), (7, 10), ('breakfast', 1), (8, 10), (9, 10), (10, 10), ('cheese', 1), (11, 10), (12, 10), (13, 10), (14, 10), (15, 10), (16, 10), ('car', 1), ('call', 1)]
```

