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Social Network Analysis 10-20-2022

Assignment 5



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Description automatically generated

1. 1. Network size: 7
   2. Density: 0.714
2. 1. The three execs situated with the best ideas are E2, E34, and E9. These execs have the lowest ConstraintWhole value, and Burt associates low constraiant with better flow of good ideas.
   2. The three execs who are least app to be situated with good ideas are E1, E18, and E37 because they have the highest constraint, which translates to a negative association with performance and idea value.

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| --- | --- | --- |
|  | Less-Senior | Senior |
| Size | 5.61 | 5.15 |
| EffectiveSize | 3.48 | 3.23 |
| ConstraintWhole | 0.38 | 0.44 |

The network size, effective size, and constraint do differ a bit by seniority. We surprisingly see less-senior people have a larger size and effective size. And we see senior people have a larger constraint.



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|  | **Mean** | **Standard Deviation** |
| **Educ1** | 3.82 | 1.76 |
| **Educ2** | 3.94 | 1.83 |
| **Educ3** | 3.95 | 1.78 |
| **Educ4** | 4.06 | 1.82 |
| **Educ5** | 4.17 | 1.84 |