We have 3 x 3 x 3 x 4 conditions to generate data (108 generated data)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **ICC** | **Cluster size** | **Beta2** | **Beta3** |  |
| Data1 | 0.2 | 30 | 0.1 | 0 |  |
|  | 0.2 | 30 | 0.1 | 0.1 |  |
|  | 0.2 | 30 | 0.1 | 0.3 |  |
|  | 0.2 | 30 | 0.1 | 0.5 |  |
|  | 0.2 | 30 | 0.3 | 0 |  |
|  | 0.2 | 30 | 0.3 | 0.1 |  |
|  | 0.2 | 30 | 0.3 | 0.3 |  |
|  | 0.2 | 30 | 0.3 | 0.5 |  |
|  | 0.2 | 30 | 0.5 | 0 |  |
|  | 0.2 | 30 | 0.5 | 0.1 |  |
|  | 0.2 | 30 | 0.5 | 0.3 |  |
|  | 0.2 | 30 | 0.5 | 0.5 |  |
|  | 0.4 | 30 | 0.1 | 0 |  |
|  | 0.4 | 30 | 0.1 | 0.1 |  |
|  | 0.4 | 30 | 0.1 | 0.3 |  |
|  | 0.4 | 30 | 0.1 | 0.5 |  |
|  | 0.4 | 30 | 0.3 | 0 |  |
|  | 0.4 | 30 | 0.3 | 0.1 |  |
|  | 0.4 | 30 | 0.3 | 0.3 |  |
|  | 0.4 | 30 | 0.3 | 0.5 |  |
|  | 0.4 | 30 | 0.5 | 0 |  |
|  | 0.4 | 30 | 0.5 | 0.1 |  |
|  | 0.4 | 30 | 0.5 | 0.3 |  |
|  | 0.4 | 30 | 0.5 | 0.5 |  |
|  | 0.8 | 30 | 0.1 | 0 |  |
|  | 0.8 | 30 | 0.1 | 0.1 |  |
|  | 0.8 | 30 | 0.1 | 0.3 |  |
|  | 0.8 | 30 | 0.1 | 0.5 |  |
|  | 0.8 | 30 | 0.3 | 0 |  |
|  | 0.8 | 30 | 0.3 | 0.1 |  |
|  | 0.8 | 30 | 0.3 | 0.3 |  |
|  | 0.8 | 30 | 0.3 | 0.5 |  |
|  | 0.8 | 30 | 0.5 | 0 |  |
|  | 0.8 | 30 | 0.5 | 0.1 |  |
|  | 0.8 | 30 | 0.5 | 0.3 |  |
|  | 0.8 | 30 | 0.5 | 0.5 |  |
| D | 0.2 | 120 | 0.1 | 0 |  |
|  | 0.2 | 120 | 0.1 | 0.1 |  |
|  | 0.2 | 120 | 0.1 | 0.3 |  |
|  | 0.2 | 120 | 0.1 | 0.5 |  |
|  | 0.2 | 120 | 0.3 | 0 |  |
|  | 0.2 | 120 | 0.3 | 0.1 |  |
|  | 0.2 | 120 | 0.3 | 0.3 |  |
|  | 0.2 | 120 | 0.3 | 0.5 |  |
|  | 0.2 | 120 | 0.5 | 0 |  |
|  | 0.2 | 120 | 0.5 | 0.1 |  |
|  | 0.2 | 120 | 0.5 | 0.3 |  |
|  | 0.2 | 120 | 0.5 | 0.5 |  |
|  | 0.4 | 120 | 0.1 | 0 |  |
|  | 0.4 | 120 | 0.1 | 0.1 |  |
|  | 0.4 | 120 | 0.1 | 0.3 |  |
|  | 0.4 | 120 | 0.1 | 0.5 |  |
|  | 0.4 | 120 | 0.3 | 0 |  |
|  | 0.4 | 120 | 0.3 | 0.1 |  |
|  | 0.4 | 120 | 0.3 | 0.3 |  |
|  | 0.4 | 120 | 0.3 | 0.5 |  |
|  | 0.4 | 120 | 0.5 | 0 |  |
|  | 0.4 | 120 | 0.5 | 0.1 |  |
|  | 0.4 | 120 | 0.5 | 0.3 |  |
|  | 0.4 | 120 | 0.5 | 0.5 |  |
|  | 0.8 | 120 | 0.1 | 0 |  |
|  | 0.8 | 120 | 0.1 | 0.1 |  |
|  | 0.8 | 120 | 0.1 | 0.3 |  |
|  | 0.8 | 120 | 0.1 | 0.5 |  |
|  | 0.8 | 120 | 0.3 | 0 |  |
|  | 0.8 | 120 | 0.3 | 0.1 |  |
|  | 0.8 | 120 | 0.3 | 0.3 |  |
|  | 0.8 | 120 | 0.3 | 0.5 |  |
|  | 0.8 | 120 | 0.5 | 0 |  |
|  | 0.8 | 120 | 0.5 | 0.1 |  |
|  | 0.8 | 120 | 0.5 | 0.3 |  |
|  | 0.8 | 120 | 0.5 | 0.5 |  |
| D | 0.2 | 150 | 0.1 | 0 | D |
|  | 0.2 | 150 | 0.1 | 0.1 |  |
|  | 0.2 | 150 | 0.1 | 0.3 |  |
|  | 0.2 | 150 | 0.1 | 0.5 |  |
|  | 0.2 | 150 | 0.3 | 0 |  |
|  | 0.2 | 150 | 0.3 | 0.1 |  |
|  | 0.2 | 150 | 0.3 | 0.3 |  |
|  | 0.2 | 150 | 0.3 | 0.5 |  |
|  | 0.2 | 150 | 0.5 | 0 |  |
|  | 0.2 | 150 | 0.5 | 0.1 |  |
|  | 0.2 | 150 | 0.5 | 0.3 |  |
|  | 0.2 | 150 | 0.5 | 0.5 |  |
|  | 0.4 | 150 | 0.1 | 0 |  |
|  | 0.4 | 150 | 0.1 | 0.1 |  |
|  | 0.4 | 150 | 0.1 | 0.3 |  |
|  | 0.4 | 150 | 0.1 | 0.5 |  |
|  | 0.4 | 150 | 0.3 | 0 |  |
|  | 0.4 | 150 | 0.3 | 0.1 |  |
|  | 0.4 | 150 | 0.3 | 0.3 |  |
|  | 0.4 | 150 | 0.3 | 0.5 |  |
|  | 0.4 | 150 | 0.5 | 0 |  |
|  | 0.4 | 150 | 0.5 | 0.1 |  |
|  | 0.4 | 150 | 0.5 | 0.3 |  |
|  | 0.4 | 150 | 0.5 | 0.5 |  |
|  | 0.8 | 150 | 0.1 | 0 |  |
|  | 0.8 | 150 | 0.1 | 0.1 |  |
|  | 0.8 | 150 | 0.1 | 0.3 |  |
|  | 0.8 | 150 | 0.1 | 0.5 |  |
|  | 0.8 | 150 | 0.3 | 0 |  |
|  | 0.8 | 150 | 0.3 | 0.1 |  |
|  | 0.8 | 150 | 0.3 | 0.3 |  |
|  | 0.8 | 150 | 0.3 | 0.5 |  |
|  | 0.8 | 150 | 0.5 | 0 |  |
|  | 0.8 | 150 | 0.5 | 0.1 |  |
|  | 0.8 | 150 | 0.5 | 0.3 |  |
|  | 0.8 | 150 | 0.5 | 0.5 |  |

Past simulation research examining multilevel data has used 1000 simulated

data sets for each condition examined (Maas & Hox, 2004). Thus, I will simulate 1000 datasets for each of the 108 conditions.