1. Find the set of cars that have the highest similarity with each other.

Answer: The set of cars with highest similarity is 0.8521429 or 85%

2. Find the set of cars that have the highest dissimilarity with each other.

Answer: The set of cars with highest dissimilarity is 0.1000 or 100%

3. Find the two categorical attributes that have the highest positive/negative correlation. Draw a scatter plot of these two attributes. Analyze the correlation using the following significance levels:

   0.01, 0.05, 0.001

Answer: High Similarity between Car_Value and Persons

Correlation (0.01):

```
Pearson's product-moment correlation

data:  DF_Corr$Persons and DF_Corr$Class_Value
t = -13.04, df = 1726, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
99 percent confidence interval:
 -0.3548260 -0.2420182
sample estimates:
      cor
-0.2994683
```
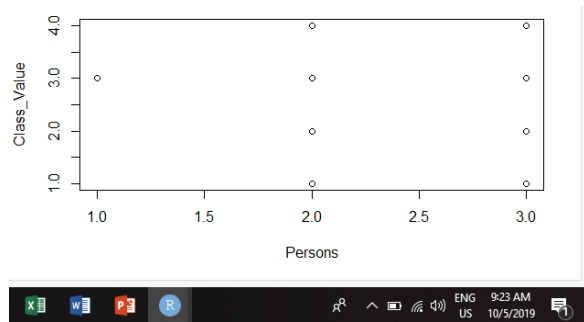
Correlation(0.05):

```
Pearson's product-moment correlation

data:  DF_Corr$Persons and DF_Corr$Class_Value
t = -13.04, df = 1726, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 -0.341797 -0.255927
sample estimates:
      cor
-0.2994683
```

Corrrelation(0.10):

```
Pearson's product-moment correlation

data:  DF_Corr$Persons and DF_Corr$Class_Value
t = -13.04, df = 1726, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
90 percent confidence interval:
 -0.3350791 -0.2630031
sample estimates:
      cor
-0.2994683
```

4. Present the dissimilarity matrix for the very good cars.

Answer: The set of cars with highest dissimilarity is 0.7142857 or 71.43%