

## Practice Conditions to Apply Statistical Analyses

### **Task: Check if your previous analyses were satisfying the conditions to apply linear models**

Investigate your previous analyses on whether **if passenger's gender and age had an influence on their the fares of their tickets** by checking if your previous analyses were satisfying the conditions to apply linear models:

1. Linearity (of the effects)
2. Normality (of the residuals)
3. Homogeneity (of the residuals)
4. Independence (of observations)

In addition, identify the collinearity of the predictors and potential anomalous data.

To obtain the corrections, email your answers to [damien.dupre@dcu.ie](mailto:damien.dupre@dcu.ie).