Predicting delivery time using sorting time

From the qqnorm and qqline functions it is observed that the data is linearly distributed

From the scatterplot it is observed that the data is slightly distributed away.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **COR** | **R squared** | **RMSE** | **Sum of errors** |
| **Model1 (Y~X)** | 0.82 | 0.68 | 2.79 | 0 |
| **Model2 (Y~log(X))** | 0.83 | 0.69 | 2.73 | 0 |
| **Model3 (log(Y)~X)** | 0.84 | 0.71 | 2.94 | 0 |

From the plots it is observed that it is not curvilinear so we don’t go for quadratic model

The best fit model is log(deliverytime) = 2.12 + 0.10 (sorting time)