CHAPTER 6
CONCLUSION

The conclusion of this simple linear regression study in answering the prediction of data values obtained from Kaggle.com:

1. The result of Constanta (a) and Coefficient (b) is :

$$\alpha = \frac{(\sum y)(\sum_x 2) - (\sum x)(\sum xy)}{n(\sum_x 2) - (\sum_x)2} = -0.46181061339172225$$

and

$$\beta = \frac{n(\sum xy) - (\sum x)((\sum y)}{n(\sum_x 2) - (\sum_x)2} = 1.014335349349752$$

Based on the calculation results α and β above, the linear regression formula for the prediction value can be determined, namely y = -0.46181061339172225 + 1.014335349349752x.

2. The result of the number of predictions of the value X =40 using the SQL program obtained the number of 40.11160337

3. The result of the Mean Absolute Error calculation from the prediction of linear regression with the formula :

$$MAE = \sum \left(\frac{|y1 - y|}{n} \right) = \mathbf{2.413538407}$$

Error! Number cannot be represented in specified format.