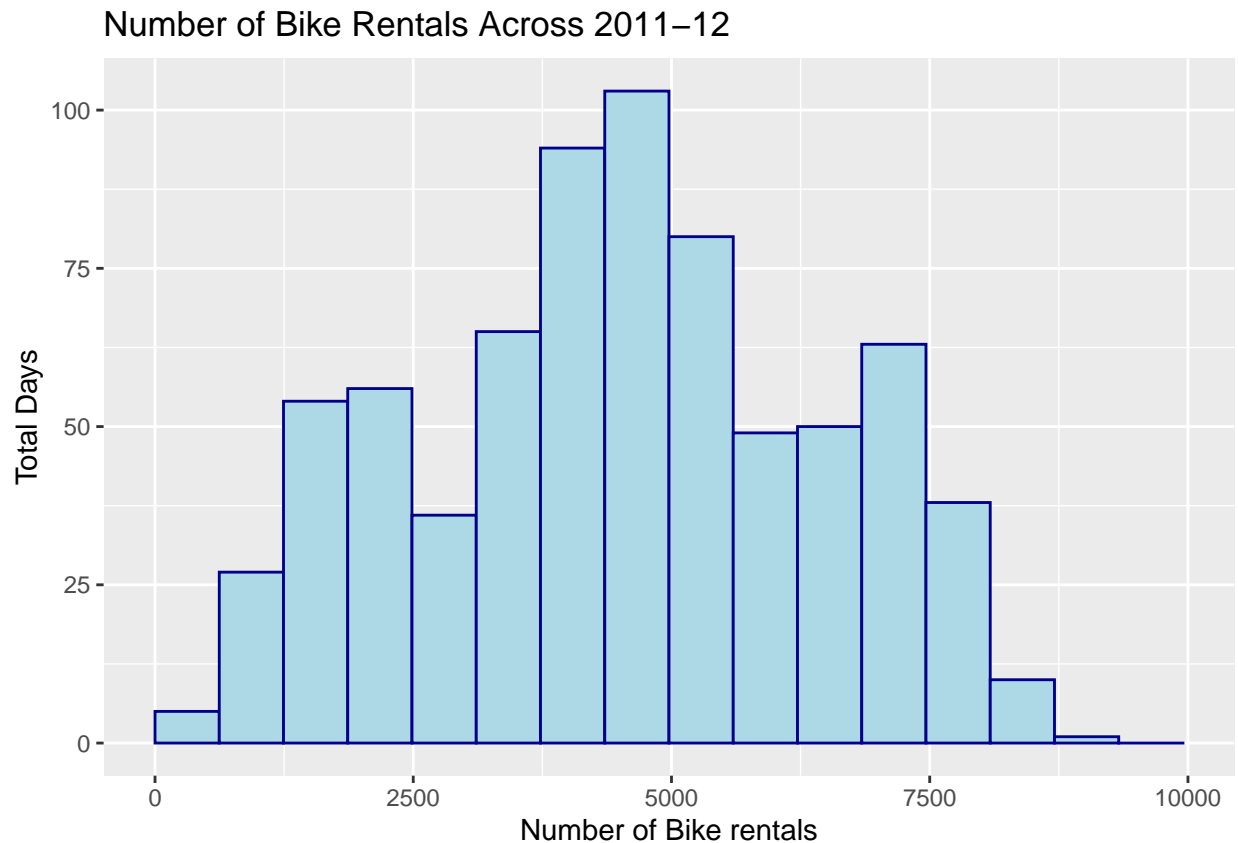


Assignment 1 cnt

1. Identify the variable type (quantitative (continuous or discrete), categorical (nominal, binary, or ordinal). Explain your reasoning.

The number of bike rentals (cnt) is a discrete quantitative variable. The number of bike rentals can not take on all numbers on an interval as it is not possible to rent half a bike thus it can not be classified as a continuous variable.

2. Using R, create an appropriate graphic showing the distribution of the data for the respective variable. Remember labels and titles.



3. Discuss the distribution for each variable based on the graphs in #2.

- For categorical, compare counts or proportions between categories. Do they look as you'd expect, given the definitions of the variables?
- For quantitative, discuss the approximate center, range, shape, and outliers (if any).

The number of bike rentals has a mean 4504.3488372 (median: 4548). With a minimum of 22 and max 8714. The distribution is roughly normal and from the 1.5 * IQR rule there are no possible outliers.

4. Compute appropriate summary statistics for each variable.

```
## Summary Statistics for Bike Rentals
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##       22    3152    4548    4504    5956    8714

## Standard Deviation =
## [1] 1937.211

## Number of Observations
## [1] 731
```