Analyze the Healthcare cost and Utilization in Wisconsin hospitals

Business Analytic Foundation with R Tools- Solutions

Solutions

Disclaimer: In Business Analytics, there are different ways of solving the same set of problems, we are just presenting one. Feel free to explore other ways of answering these questions.

1. To record the patient statistics, the agency wants to find the age category of people who frequents the hospital and has the maximum expenditure.

   To find the category that has the highest frequency of hospital visit, we can use graphical analysis. A histogram would display the number of occurrences of each age category. The as.factor() is called to make sure that the categories are not treated as numbers.
   Outlier treatments: None

   Code:

   ```
   hops  <- read.csv("HospitalCosts.csv")
   hist(hops$AGE)
   summary(as.factor(hops$AGE))
   ```

   Result:

   From the graph that is displayed, we can see that infants have the maximum frequency of hospital visit, going above 300. The summary of AGE attribute gives the numerical output (after converting the age from numeric to factor) – and we can see that there are 307 entries for those in the range of 0-1 year.