
1. Use the following data (in increasing order) for the attribute age to answer the following questions: 13, 15, 16, 16, 19, 20, 20, 21, 22, 22, 25, 25, 25, 25, 30, 33, 33, 35, 35, 35, 35, 36, 40, 45, 46, 52, 70.
 - a. Use smoothing by bin means to smooth the above data, using a bin depth of 3. Illustrate your steps. Comment on the effect of this technique for the given data.
 - b. How might you determine outliers in the data?
 - c. What other methods are there for data smoothing?

2. Using the data for age given in Question 1, answer the following:
- a. Use min-max normalization to transform the value 35 for age onto the range $[0.0, 1.0]$.
 - b. Use z-score normalization to transform the value 35 for age, where the standard deviation of age is 12.94 years.
 - c. Use normalization by decimal scaling to transform the value 35 for age.

3. Using the data for age given in Question 1, plot an equal-width histogram of width 10.

4. Discuss issues to consider during data integration.