DM Assignment 12

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Overview

This document consolidates the observations and answers to questions pertaining to the use of the WEKA API for outlier detection.

Observations

General characteristics of outliers:

All the outliers lie in the "high" region of their respective outlier attributes i.e they all have values greater than Q3 + IQR*OF, and none have values lesser than Q1 - IQR*OF for the attribute in which they are an outlier.

Questions & Answers

1. What is the effect of changing OF?

Ans:

Increasing OF results in a fewer number of outliers, in both the low and high regions, for each attribute.

Decreasing OF results in a larger number of outliers, in both the low and high regions, for each attribute.

2. Can you make any general statement about the quality of outliers?

Ans: Most of the outliers seem to be of **MEDIUM** quality (their quality rating lies between Q1 and Q3 for the quality attribute).