CS909: 2013-14

Week 2: Exploring the iris dataset

1. Select and apply a suitable R command to discover the number and names of attributes in the iris dataset and the number of instances.

2. What are the minimum, maximum, mean, median, and the first (25%) and third (75%) quartiles of the iris dataset attributes?

3. Create a new object irisSubset containing rows 40 to 85 and save it in a file called irisSubset in the Rdata format.

4. Remove object irisSubset from the R workspace. Load it back in from irisSubset.Rdata.

5. Arrange the instances of irisSubset in descending order of attribute "Sepal.Length".

6. Create a new subset irisSubsetSepal from iris with Sepal.Length < 5.4.

7. Use the function max() to find the maximum value of each attribute in irisSubsetSepal.

8. Write a function that takes as its arguments an iris Species type and an attribute name and returns the minimum and maximum values of the attribute for that Species type.

Submission deadline: Midday, Thursday 23rd January.