Exercises

- 1. The AdultUCI data set of arules package contains the questionnaire data of the Adult database formatted as a data.frame. The Adult data set contains the data already prepared and coerced to transactions for use with arules.
- (a) Use the Adult data set (by calling "data(Adult)") and create a bar plot showing item frequency for the top 12 frequent item sets.
- (b) Visualize a graph for the predominant 12 rules based on support. Use plot options with method="graph", measure="confidence", and shading="lift". Interpret the figure: which ones are the most frequent items?
- (c) Calculate the crosstable and report what is the joint probability that someone is *age=Middle-aged* (i.e., put this value as denominator) and also happens to be *workclass=Private*?