

Formal Concept Analysis

Exercise Sheet 4, Winter Semester 2014/15

Exercise 1 (multi-valued context)

a) Write down the derived contexts for the given multi-valued context about winter tyres using the

- nominal scale
- ordinal scale
- interordinal scale
- biordinale scale

(++ very good, + good, o satisfactory, – unsatisfactory)

b) Draw the line diagrams of the corresponding concept lattices.

c) Which tyre would you buy for your car? Why?

	Dry	Wet	Snow
Conti	+	+	++
Firestone	+	o	+
Fulda	+	+	+
Gislaved	+	o	++
Goodyear 2	+	+	+
Goodyear 3	+	o	++
Michelin	o	o	++
Pirelli	+	+	+
Semperit	o	+	+
Uniroyal	+	o	+
Vredestein	+	–	+

Exercise 2 (homework)

Construct a (multi-valued) formal context for one of your topics of interest.