Technische Universität Dresden

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Introduction to Formal Concept Analysis
Exercise Sheet 5, Winter Semester 2017/18

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
- biordinal 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	+	−	+