Assignment 2

Exercises to hand-in:

1. Consider page 131 in ABS. Show how J_1 is calculated and how J_2 is calculated. (i.e., explain J_2 and J_1 are equal and why they are equal to the set $D \cup \{r(\&o_1), c(\&o_2), p(\$o_3), p(\$o_4)\}$, as claimed on page 131.

2. Summarize (in one or two brief paragraphs) how Datalog rules are used to type semistructured data. (What is the role of the Datalog rules, how does one determine the type of some given data and what is the role of the maximal fixed point ?)

3. Give a review of the paper by Nestorov et. al.: Extracting Schema from Semistructured Data. It should be about half a page, and consist of a compelling mix of summary, key ideas, questions you have, flaws you have found, and evaluations of quality.

4. Explain Example 4.2 in the by Nestorov et. al.: Extracting Schema from Semistructured Data (i.e., show how the calculations are made and explain what the results of the calculations tell us).