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| Aufgabe 2-4: Schemaintegration – Tool support | |
| Steps Performed | 1. Installation von Atova MapForce 2. Request of installation codes and completion of installation of Altova tool 3. Definition of RelaxNG schema (manual) based on results of data cleaning transformations. Use of grammar elements for re-use on course level (since courses can be attached on different hierarchical levels)  OUTPUT: https://github.com/fridlutz/UNIVIE/blob/master/INTERROP/Session%202/4%20Schema%20Mapping/relaxng.rng 4. Validation of XML against RelaxNG schema using xmllint  Command: xmllint --noout --relaxng relaxng.rng OWN\_baseXML\_tranformed.xml Result: OWN\_baseXML\_tranformed.xml validates 5. Download and installation of MSV from <https://msv.java.net> 6. Validaton of XML against RelaxNG schema using MSV  Command: java -jar msv-20090415/msv.jar relaxng.rng OWN\_baseXML\_tranformed.xml Result:  start parsing a grammar. validating OWN\_baseXML\_tranformed.xml the document is valid. 7. Download and installation of TRANG from <http://www.thaiopensource.com/relaxng/trang.html> 8. Transformation of RelaxNG to XSD using TRANG  Command: java -jar trang-20091111/trang.jar relaxng.rng result.xsd Result: (result.xsd is available in workspace) 9. Validation of XML against XSD schema using MSV  Command: java -jar msv-20090415/msv.jar result.xsd OWN\_baseXML\_tranformed.xml Result:  start parsing a grammar. validating OWN\_baseXML\_tranformed.xml the document is valid. 10. Validation of XML against XSD schema using xmllint  Command: xmllint --noout --schema result.xsd OWN\_baseXML\_tranformed.xml Result: FAILED 11. Manual correction of XSD: Line 75-78, change structure and comment of dublicate entries 12. Re-validation of XML against XSD schema using xmllint  Command: xmllint --noout --schema result.xsd OWN\_baseXML\_tranformed.xml Result: OWN\_baseXML\_tranformed.xml validates 13. Setup of new project in Altova Mapforce 14. Setup of mapping (bottom-up from OWN to FOREIGN XSD) 15. Introduction of constant “NA” for non-existing elements 16. Generation of code for XQUERY, XSLT 1.0, Java |