

This master thesis concerns the problematics of mapping of relational schemas to existing ontologies, primarily written in RDFS. Its first part gives a view at already existing solutions and their principles. The solutions are divided into the manual and semiautomatic groups according to the level of a help given to users when mapping. Secondly the thesis presents an own solution - mDR. In its basics it does use ideas of the existing FDR2 system, however it generalises them. The mapping is done in three steps: creation of helping information about a database, mapping and instances transfer. The last third of the work involves JmDR, a (in JAVA) developed tool completely implementing the first two phases.