

Monadic Datalog and Limited Access Containment

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We consider containment of monadic datalog (MDL) queries in unions of conjunctive queries. We establish the complexity of this problem (it is 2EXPTIME-complete) and of special cases thereof, especially those that are related to the containment of queries under limited access constraints, with applications to deep Web querying.

Joint work with Michael Benedkt, Pierre Bourhis, Georg Gottlob.