Advanced Topics in Foundations of Databases, 2017/18

Material for Final Project and Essays

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Topic 3: Semantic Optimization of Conjunctive Queries

1. Pablo Barceló, Andreas Pieris, Miguel Romero: Semantic Optimization in Tractable Classes of Conjunctive Queries. SIGMOD Record 46(2): 5-17 (2017)

2. Pablo Barceló, Georg Gottlob, Andreas Pieris: Semantic Acyclicity Under Constraints. PODS 2016: 343-354

3. Diego Figueira: Semantically Acyclic Conjunctive Queries under Functional Dependencies. LICS 2016: 847-856

4. David S. Johnson, Anthony C. Klug: Testing Containment of Conjunctive Queries under Functional and Inclusion Dependencies. J. Comput. Syst. Sci. 28(1): 167-189 (1984)

5. David Maier, Alberto O. Mendelzon, Yehoshua Sagiv: Testing Implications of Data Dependencies. ACM Trans. Database Syst. 4(4): 455-469 (1979)