Advanced Topics in Foundations of Databases, 2016/17

Material for Final Project and Essays

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Topic 2: Scale Independence

1. Michael Armbrust, Kristal Curtis, Tim Kraska, Armando Fox, Michael J. Franklin, David A. Patterson: PIQL: Success-Tolerant Query Processing in the Cloud. PVLDB 5(3):181-192 (2011)

2. Michael Armbrust, Armando Fox, David A. Patterson, Nick Lanham, Beth Trushkowsky, Jesse Trutna, Haruki Oh: SCADS: Scale-Independent Storage for Social Computing Applications. CIDR 2009

3. Michael Armbrust, Eric Liang, Tim Kraska, Armando Fox, Michael J. Franklin, David A. Patterson: Generalized scale independence through incremental precomputation. SIGMOD 2013:625-636

4. Wenfei Fan, Floris Geerts, Frank Neven: Making Queries Tractable on Big Data with Preprocessing. PVLDB 6(9): 685-696 (2013)

5. Wenfei Fan, Floris Geerts, Leonid Libkin: On scale independence for querying big data. PODS 2014:51-62

6. Yang Cao, Wenfei Fan, Tianyu Wo, Wenyuan Yu: Bounded Conjunctive Queries. PVLDB 7(12): 1231-1242 (2014)