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Then we exhibit a fixed parameter algorithm, when the problem is parameterized by the size of the alphabet and the number of columns. Finally, we investigate the computational (and approximation) complexity of the k-anonymity problem, when restricting the instance to records having length bounded by 3 and $k=3$.

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Based on this, we develop a polynomial-time data reduction yielding a polynomial-size problem kernel for Degree Anonymity parameterized by the maximum vertex degree. In terms of parameterized complexity analysis, this result is in a sense tight since we also show that the problem is already NP-hard for H-index three, implying NP-hardness for smaller parameters such as average degree and degeneracy.

A refined complexity analysis of degree anonymization in ...
k-Anonymity inO(nm+2t int outt in(t outm+t2 in log(t in))) time,whichcompares favorably with Bonizzoni et al.'s [5] algorithm running in O(2(j+1)mkmn2) time.Sincet out t in,thisshowsthatk-Anonymity isfixed-parametertractable whenparameterizedbyt in.Inparticular,whent in isaconstant,ouralgorithm solvesk-Anonymity intimelinear inthesizeoftheinput.Incontrast,when