Complex Data Queries Provenance Optimization

*querying data provenance - university of pennsylvania - querying data provenance ... explore the (typically large and complex) graph of tuples and derivations, and (2) request and isolate por-tions of it. declarative querying is advantageous here: it provides a ... in section 2 we show examples of provenance queries and iden-tify a partial list of important use cases for a provenance query **1 storing, tracking, and querying provenance in linked data** - storing, tracking, and querying provenance ... and the execution of queries with respect to provenance data. tripleprov is based on a native rdf store [10], [11], ... during the execution of complex queries in order to dyna-mically correct suboptimal query execution plans. ng et al. **relationalization of provenance data in complex rdf ...** - relationalization of provenance data in complex rdf ... queries issued against rdf data into corresponding sql queries, thereby making relational data accessible through rdf applications. our goal, on the other hand, is to enable rdf triples to be accessed through relational applications. rdf123 [13], **choosing a data model and query language for provenance** - choosing a data model and query language for provenance david a. holland, uri braun, diana maclean, ... the requirements for a provenance data and query model and discuss why the common solutions (relational, xml, rdf) fall short. ... provenance stores or more complex queries than this example it can be important **annotated xml: queries and provenance** - annotated xml: queries and provenance j. nathan foster todd j. green val tannen {jnfoster,tjgreen,val}@cis.upenn department of computer and information science university of pennsylvania abstract we present a formal framework for capturing the provenance of data appearing in xquery views of xml. building on previous **it s about the data: provenance as a tool for assessing ...** - it's about the data: provenance as a tool for assessing data fitness. adriane chapman, m. david allen, barbara blaustein {achapman, dmallen, bblaustein}@mitre. the mitre corporation . ... in this work we describe fitness widgets, predefined queries over provenance graphs that users **answering regular path queries on workflow provenance** - evaluating regular path queries over provenance graphs of workflows that may include recursion. the approach assumes ... ecutions used to produce data, as well as the parameter settings ... more complex queries, regular path queries, between sets of nodes. to do this, we harness in a non-trivial way the labeling **techniques for efficiently querying scientific workflow ...** - provenance graphs manish kumar anand1, shawn bowers2, ... approach simplifies the expression of complex queries, better sup-ports provenance view definitions and graph visualization [13, 7], ... and tree nodes represent either collection tokens or data tokens (which wrap complex objects or reference external data, e.g., stored **polytics: provenance-based analytics of data-centric ...** - and its use. noting that provenance was a key component in answering similar questions in the context of database queries, we have developed polytics, a system that employs novel provenance-based solutions for these analytic questions for data-centric applications. we propose to demonstrate polytics **a graph model of data and workflow provenance - usenix** - a graph model of data and workflow provenance umut acar max-planck institute for software systems peter buneman ... complex object data, by propagating fine-grained an- ... nance for both database queries and simple workflows in a uniform way. this should provide a foundation for **on the efficiency of provenance queries - researchgate** - ating (data) provenance queries and some of the limitations ... expresses the complex association of alerts and blood pressure readings from our motivating example where a "prehyperten- **provenance management for frequent itemsets** - creation process of data that has been produced by poten-tially complex relational transformations. provenance for the results of data mining operators in contrast has not been considered. we argue that provenance o ers the same ben-e ts for mining as for relational queries, e.g., it allows us to track errors caused by incorrect input data. we con- **'high-throughput ingest of data provenance records into ...** - data provenance is the history of data as it is pro-cessed. provenance tracks metadata about the inputs and outputs to a process, the specific process, and the con- ... more complex queries that can span multiple systems. the configuration in this paper is as follows: granularity whole-system collection linux provenance modules **using mediation to achieve provenance interoperability** - using mediation to achieve provenance interoperability ... in complex experiments and anal-yses, where multiple tools are used to derive data products, ... query api can be effectively used to support queries over (real) provenance data derived by different systems. 2.1 scienti c work*

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