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Knowledge Catalysts : Enabling and Exploring Discovery from Big Data

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Technology Summary

This paper presents a real-world case-study on how datasets in different formats (structured, unstructured), hosted across different infrastructures (cloud, custom-hardware, etc.), in different databases (row-oriented, column oriented, file-oriented etc.) as different schemas can all be seamlessly presented and explored. We describe the implementation of a tool that serves as an evolving knowledge recorder that not only captures schema and data-element relationships across data sources, but tracks the data elements of value within the enterprise based on the queries and the analytical artifacts that are being created from the data. The tool is not only digital record of institutional domain knowledge and the data elements within and across the enterprise, but is a data exploration mechanism when exposed/published with popular semantic-interfaces such as the Resource Description Framework (RDF -LinkedData).

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