

# A rule-based language for Web data management\*

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## ABSTRACT

There is a new trend to use Datalog-style rule-based languages to specify modern distributed applications, notably on the Web. We introduce here such a language for a distributed data model where peers exchange messages (i.e. logical facts) as well as rules. The model is formally defined and its interest for distributed data management is illustrated through a variety of examples. A contribution of our work is a study of the impact on expressiveness of “delegations” (the installation of rules by a peer in some other peer) and explicit timestamps. We also validate the semantics of our model by showing that under certain natural conditions, our semantics converges to the same semantics as the centralized system with the same rules. Indeed, we show this is even true when updates are considered.

## Categories and Subject Descriptors

H.2.4 [Information Systems]: Database Management—Systems, Distributed databases

## General Terms

Languages, Theory

## Keywords

Datalog, Delegation, Distribution, Web

## 1. INTRODUCTION

The management of modern distributed information, notably on the Web, is a challenging problem. Because of its complexity, there has recently been a trend towards using high-level Datalog-style rules to specify such applications. We introduce here a model for distributed computation where peers exchange messages (i.e. logical facts) as well as rules. The model provides a novel setting with a strong emphasis on dynamism and interactions (in a Web 2.0 style). Because the model is powerful, it provides a clean basis for the specification of complex distributed applications. Because it is simple, it provides a formal framework for studying many facets of the problem such as distribution, concurrency, and expressivity in the context of distributed autonomous peers.

In recent years, there has been renewed interest in studying languages in the Datalog family for a wide range of applications ranging from program analysis, to security and privacy protocols, to natural language processing, or multiplayer games. For references see [17] and the forthcoming proceedings of the Datalog 2.0 workshop [15]. We are concerned here with using rule-based languages for the management of data in distributed settings, as in web applications [2, 7, 13, 4], networking [21, 20, 16] or distributed systems [22]. The arguments in favor of using Datalog-style specifications for complex distributed applications are the familiar ones, cf. [17].

A main contribution of the paper is a new model for distributed data management that combines in a formal setting deductive rules as in Datalog with negation, cf. [12] (to specify intensional data) and active rules as in Datalog<sup>+</sup> [8] (for updates and communications). There have already been a number of proposals for combining active and deductive features in a rule-based language; see [19, 17] and our discussion of related work. However, there is yet to be a consensus on the most appropriate such language. We therefore believe that there is a need to continue investigating novel language features adapted to modern data management and to formally study the properties of the resulting new models.

The language we introduce, called Webdatalog, is tailored to facilitate the specification of data exchange between autonomous peers, which is essential to the applications we have in mind. Towards that goal, the novel feature we in-

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# A Rule Based Language For Web Data Management

**Dik Lun Lee**



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**Advances in Databases and Information Systems** Morzy Tadeusz, Patrick Valduriez, Ladjel Bellatreche, 2015-08-14 This book constitutes the thoroughly refereed proceedings of the 19th East European Conference on Advances in Databases and Information Systems ADBIS 2015 held in Poitiers France in September 2015 The 31 full papers and 18 short papers presented were carefully selected and reviewed from 135 submissions The papers are organized in topical sections such as database theory and access methods user requirements and database evolution multidimensional modeling and OLAP ETL transformation extraction and archiving modeling and ontologies time series processing performance and tuning advanced query processing approximation and skyline confidentiality and trust

**Rules and Reasoning** Sotiris Moschoyiannis, Rafael Peñaloza, Jan Vanthienen, Ahmet Soylu, Dumitru Roman, 2021-12-02 This book constitutes the proceedings of the International Joint Conference on Rules and Reasoning RuleML RR 2021 held in Leuven Belgium during September 2021 This is the 5th conference of a new series joining the efforts of two existing conference series namely RuleML International Web Rule Symposium and RR Web Reasoning and Rule Systems The 17 full

research papers presented together with 2 short technical communications papers and 2 abstracts of invited papers were carefully reviewed and selected from 39 submissions

**Database and Expert Systems Applications** Abdelkader Hameurlain, Stephen W. Liddle, Klaus-Dieter Schewe, Xiaofang Zhou, 2011-08-19 This book constitutes the refereed proceedings of the 22 International Conference on Database and Expert Systems Applications DEXA 2011 held in Toulouse France August 29 September 2 2011 The 52 revised full papers and 40 short papers presented were carefully reviewed and selected from 207 submissions The papers are organized in topical sections on query processing database semantics skyline queries security and privacy spatial and temporal data semantic web search storage and search web search data integration transactions and optimization and web applications

Handbook of Data Management, 2nd Edition Bhavani Thuraisingham, 1997-12-16

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**Journal of Database Management**, 2001

**Data Management and Query Processing for Semistructured Data** Jason George McHugh, 2000

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