

Active Database Systems Triggers And Rules For Advanced Database Processing The Morgan Kaufmann Series In Data Management Systems

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This article is intended to illustrate how to use triggers in databases systems to enforce business rules and react to events in database applications thus supporting the Active databases principles. Business rules are kind of reactive constraints in the form of whenever events do action with a specification of what to do if certain event happens. The event is a request for the execution of some database operation such as delete or insert a row.

Triggers and Active Databases - C# Corner

The four active rules (or triggers) R1, R2, R3, and R4 —corresponding to the above situation—can be specified in the notation of the Oracle DBMS as shown in Figure 26.2(a). Let us consider rule R1 to illustrate the syntax of creating triggers in Oracle. The CREATE TRIGGER statement specifies a trigger (or active rule) name Total_sal1 for R1.

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1. Active database systems enhances traditional database functionalities with powerful rule processing (or trigger) capabilities 2. Triggers in active database
enable a uniform and centralized description of the business rules relevant to the information system. 3. The use of triggers in an active database facilitates
the maintenance of business rules.

Active database system - SlideShare

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Active Database Systems: Triggers and Rules for Advanced ...

A database trigger is special stored procedure that is run when specific actions occur within a database. Most triggers are defined to run when changes are
made to a table's data. Triggers can be defined to run instead of or after DML (Data Manipulation Language) actions such as INSERT, UPDATE, and
DELETE. Triggers help the database designer ensure certain actions, such as maintaining an audit file, are completed regardless of which program or user
makes changes to the data.

What is a Database Trigger? - Essential SQL

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An active database management system (ADBMS) is an event-driven system in which schema or data changes generate events monitored by active rules. Active database management systems are invoked by synchronous events generated by user or application programs as well as external asynchronous data change events such as a change in sensor value or time.

What is an Active Database Management System (ADBMS) ...

Active Rules(Production Rules) The active behaviour is achieved through the production rules/ active rules. The active rules are stored programs called triggers that are fired when an event occurs. Triggers are written to respond to DML(select, insert etc), DDL(create, alter etc) and Database Operations(Log-On, Log-Off) These triggers can be defined on table/view or the database to which ...

Active database - SlideShare

An active database is a database that includes an event-driven architecture (often in the form of ECA rules) which can respond to conditions both inside and outside the database. Possible uses include security monitoring, alerting, statistics gathering and authorization. Most modern relational databases include active database features in the form of database triggers .

Active database - Wikipedia

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Active Database Systems: Triggers and Rules for Advanced ...

with conventional database systems, but has led to improved understanding of active behavior description languages, execution models, and architectures. This survey presents the fundamental characteristics of active database systems, describes a collection of representative systems within a common framework,

Active Database Systems

Idea: Active Database System (ADBS) Active database — Relational or object oriented data base — Triggers actions in reaction on (system)events — ECA-Rules specify event, condition, action New book DB aDBMS Application

Trigger in SQL:1999 (Oracle) Active Database systems

(Redirected from Event Condition Action) Event condition action (ECA) is a short-cut for referring to the structure of active rules in event driven architecture and active database systems. Such a rule traditionally consisted of three parts: The event part specifies the signal that triggers the invocation of the rule

Event condition action - Wikipedia

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database

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system itself. Considerable effort has been directed towards improving understanding of such systems in recent years, and many different proposals have been made and applications suggested.

Active database systems / ACM Computing Surveys

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Active database systems enhance traditional database functionality with powerful rule-processing capabilities, providing a uniform and efficient mechanism for many database system applications. Among these applications are integrity constraints, views, authorization, statistics gathering, monitoring and alerting, knowledge-based systems, expert systems, and workflow management. This significant collection focuses on the most prominent research projects in active database systems. The project leaders for each prototype system provide detailed discussions of their projects and the relevance of their results to the future of active database systems. Features: A broad overview of current active database systems and how they can be extended and improved A comprehensive introduction to the core topics of the field, including its motivation and history Coverage of active database (trigger) capabilities in commercial products Discussion of forthcoming standards

A timely survey of the field from the point of view of some of the subject's most active researchers. Divided into several parts organized by theme, the book first covers the underlying methodology regarding active rules, followed by formal specification, rule analysis, performance analysis, and support tools. It then moves on to the implementation of active rules in a number of commercial systems, before concluding with applications and future directions for research. All researchers in databases will find this a valuable overview of the topic.

The areas of active and real-time databases have seen a tremendous growth of interest in the past few years, particularly with regard to their support of time-critical and embedded applications. ARTDB-95 provided, therefore, an important forum for researchers from both communities to discuss research results, and also to chart new directions for the future. As well as the 11 submitted papers presented at the workshop, this volume also contains 4 invited papers on the following topics: the impact of active databases on commercial practice; the optimization of active database transactions; the need for better language, compiler and tool support for real-time databases; and the origin of time constraints associated with data, events and actions. Together the papers give a comprehensive overview of current research, and will provide invaluable reading for academic and industrial researchers and students at both undergraduate and postgraduate level.

Doctoral Thesis / Dissertation from the year 2006 in the subject Computer Science - Applied, grade: 1.0, University of Dusseldorf "Heinrich Heine," 127 entries in the bibliography, language: English, abstract: Federated information systems provide access to interrelated data that is distributed over multiple autonomous and heterogeneous data sources. The integration of these sources demands for flexible and extensible architectures that balance both, the

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highest possible autonomy and a reasonable degree of information sharing. In current federated information systems, the integrated data sources do only have passive functionality with regard to the federation. However, continuous improvements take the functionality of modern databases beyond former limits. The significant improvement, on which this work is based on, is the ability of modern active database systems to execute programs written in a standalone programming language as user-defined functions or stored procedures from within their database management systems. We introduce Enhanced Active Database Systems as a new subclass of active databases that are able to interact with other components of a federation using external program calls from within triggers. We present several concepts and architectures that are specifically developed for Enhanced Active Databases to improve interoperability and consistency in federated information systems. As the basic concept we describe Active Event Notifications to provide an information system with synchronous and asynchronous update notifications in real-time. Based on this functionality, Enhanced Active Databases are able to actively participate in global integrity maintenance executing partial constraint checks on interrelated remote data. Furthermore, we present an architecture for a universal wrapper component that especially supports Active Event Notifications, which makes it perfectly suitable for eve

This book constitutes the thoroughly refereed post-workshop proceedings of the Second International Workshop on Active, Real-Time, and Temporal Database Systems, ARTDB'97, held in Como, Italy in September 1997. The nine revised full papers presented were carefully reviewed and selected from a total of 17 submissions. Also included are an introductory survey chapter and three invited papers written by prominent researchers in the field, as well as two summaries of the panel discussions held at the workshop. The papers are devoted to the issue of building database systems supporting reactive behaviour, while enforcing timeliness and predictability.

This book constitutes the strictly refereed post-workshop proceedings of the Third International Workshop on Rules in Database Systems, RIDS '97, held in Skövde, June 1997. The 13 revised papers presented in the book were carefully reviewed and selected from 33 submissions. The book documents the state-of-the-art in the area. The papers are devoted to deductive databases, active database systems architectures, events in workflow management, rule modelling and simulation, rule confluence, rule termination analysis, rule testing and validation, active database systems design.

These proceedings contain 25 contributed papers presented at the 13th East-European Conference Advances on Databases and Information Systems (ADBIS 2009) held September 7-10, 2009, in Riga, Latvia. The Call for Papers attracted 93 submissions from 28 countries. In a rigorous reviewing process the international Program Committee of 64 members from 29 countries selected these 25 contributions for publication in this volume; in addition, there is the abstract of an invited talk by Matthias Brantner. Furthermore, 18 additional contributions were selected for short presentations and have been published in a separate volume of local proceedings by the organizing institution. Topically, the accepted papers cover a wide spectrum of database and information system topics ranging from query processing and optimization via query languages, design methods, data integration, indexing and caching to business processes, data mining, and application oriented topics like XML and data on the Web. The ADBIS 2009 conference continued the series of ADBIS conferences organized every year in different countries of Eastern and Central Europe, beginning in St. Petersburg (Russia, 1997), Poznan (Poland, 1998), Maribor (Slovenia, 1999), Prague (Czech Republic, as a joint ADBIS-DASFAA conference, 2000), Vilnius (Lithuania, 2001), Bratislava (Slovakia, 2002), Dresden (Germany, 2003), Budapest (Hungary, 2004), Tallinn (Estonia, 2005), Thessaloniki (Greece, 2006), Varna (Bulgaria, 2007), and Pori (Finland, 2008). The conferences are initiated and supervised by an international Steering Committee, which consists of representatives from Armenia, Austria, Bulgaria, Czech Republic, Greece, Estonia, Germany, Hungary, Israel, Italy, Latvia,

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Lithuania, Poland, Russia, Serbia, Slovakia, Slovenia, and Ukraine, and is chaired by Professor Leonid Kalinichenko.

The latest edition of a popular text and reference on database research, with substantial new material and revision; covers classical literature and recent hot topics. Lessons from database research have been applied in academic fields ranging from bioinformatics to next-generation Internet architecture and in industrial uses including Web-based e-commerce and search engines. The core ideas in the field have become increasingly influential. This text provides both students and professionals with a grounding in database research and a technical context for understanding recent innovations in the field. The readings included treat the most important issues in the database area--the basic material for any DBMS professional. This fourth edition has been substantially updated and revised, with 21 of the 48 papers new to the edition, four of them published for the first time. Many of the sections have been newly organized, and each section includes a new or substantially revised introduction that discusses the context, motivation, and controversies in a particular area, placing it in the broader perspective of database research. Two introductory articles, never before published, provide an organized, current introduction to basic knowledge of the field; one discusses the history of data models and query languages and the other offers an architectural overview of a database system. The remaining articles range from the classical literature on database research to treatments of current hot topics, including a paper on search engine architecture and a paper on application servers, both written expressly for this edition. The result is a collection of papers that are seminal and also accessible to a reader who has a basic familiarity with database systems.

The design of knowledge systems is finding myriad applications from corporate databases to general decision support in areas as diverse as engineering, manufacturing and other industrial processes, medicine, business, and economics. In engineering, for example, knowledge bases can be utilized for reliable electric power system operation. In medicine they support complex diagnoses, while in business they inform the process of strategic planning. Programmed securities trading and the defeat of chess champion Kasparov by IBM's Big Blue are two familiar examples of dedicated knowledge bases in combination with an expert system for decision-making. With volumes covering "Implementation," "Optimization," "Computer Techniques," and "Systems and Applications," this comprehensive set constitutes a unique reference source for students, practitioners, and researchers in computer science, engineering, and the broad range of applications areas for knowledge-based systems.

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