Refactoring Databases Evolutionary Database Design

Refactoring DatabasesRecipes for Continuous Database IntegrationHandbook of Research on Innovations in Database Technologies and Applications: Current and Future TrendsDatabase and Expert Systems ApplicationsDomain-Driven RefactoringOn the Move to Meaningful Internet Systems: OTM 2011Data Warehousing and AnalyticsEvolve the Monolith to Microservices with Java and NodeManagement and Processing of Complex Data StructuresDatabase Management SystemFundamentals of Database SystemsProceedings of the 2000 Congress on Evolutionary ComputationDatabases in Networked Information SystemsJournal of Database AdministrationProceedings of the Seventeenth International Conference on Very Large Data Bases, September 3-6, 1991, Barcelona (Catalonia, Spain)Proceedings of the … International IEEE Conference on Tools for Artificial IntelligenceData Bases and Data Base Systems, Related to NASA's Aerospace ProgramData Warehousing with OracleDatabase Systems of the 90sDatabase Systems'99 Scott W. Ambler Pramod J. Sadalage Ferraggine, Viviana E. Sven Hartmann Alessandro Colla Robert Meersman David Taniar Sandro De Santis Kai von Luck Jagdish Chandra Patni Ramez Elmasri Guy M. Lohman United States. National Aeronautics and Space Administration. Scientific and Technical Information Branch Sima Yazdani Albrecht Blaser John F. Roddick Refactoring Databases Recipes for Continuous Database Integration Handbook of Research on Innovations in Database Technologies and Applications: Current and Future Trends Database and Expert Systems Applications Domain-Driven Refactoring On the Move to Meaningful Internet Systems: OTM 2011 Data Warehousing and Analytics Evolve the Monolith to Microservices with Java and Node Management and Processing of Complex Data Structures Database Management System Fundamentals of Database Systems Proceedings of the

2000 Congress on Evolutionary Computation Databases in Networked Information Systems Journal of Database Administration Proceedings of the Seventeenth International Conference on Very Large Data Bases, September 3–6, 1991, Barcelona (Catalonia, Spain) Proceedings of the ... International IEEE Conference on Tools for Artificial Intelligence Data Bases and Data Base Systems, Related to NASA's Aerospace Program Data Warehousing with Oracle Database Systems of the 90s Database Systems'99 *Scott W. Ambler Pramod J. Sadalage Ferraggine, Viviana E. Sven Hartmann Alessandro Colla Robert Meersman David Taniar Sandro De Santis Kai von Luck Jagdish Chandra Patni Ramez Elmasri Guy M. Lohman United States. National Aeronautics and Space Administration. Scientific and Technical Information Branch Sima Yazdani Albrecht Blaser John F. Roddick*

refactoring has proven its value in a wide range of development projects helping software professionals improve system designs maintainability extensibility and performance now for the first time leading agile methodologist scott ambler and renowned consultant pramodkumar sadalage introduce powerful refactoring techniques specifically designed for database systems ambler and sadalage demonstrate how small changes to table structures data stored procedures and triggers can significantly enhance virtually any database design without changing semantics you ll learn how to evolve database schemas in step with source code and become far more effective in projects relying on iterative agile methodologies this comprehensive guide and reference helps you overcome the practical obstacles to refactoring real world databases by covering every fundamental concept underlying database refactoring using start to finish examples the authors walk you through refactoring simple standalone database applications as well as sophisticated multi application scenarios you ll master every task involved in refactoring database schemas and discover best practices for deploying refactorings in even the most complex production environments the second half of this book systematically covers five major categories of database refactorings you ll learn how to use refactoring to enhance database structure data quality and referential integrity and how to refactor both architectures and methods this book provides an extensive set of examples built with oracle and

java and easily adaptable for other languages such as c c or vb net and other databases such as db2 sql server mysql and sybase using this book s techniques and examples you can reduce waste rework risk and cost and build database systems capable of evolving smoothly far into the future

this is the ebook version of the printed book the past few years have seen the rise of agile or evolutionary methods in software development these methods embrace change in requirements even late in the project the ability to change software is because of certain practices that are followed within teams such as test driven development pair programming and continuous integration continuous integration provides a way for software teams to integrate their work more than once a day and promotes confidence in the software that is being developed by the team it is thought that this practice is difficult to apply when continuously integrating the database with application code hence evolutionary database development is considered a mismatch with agile methods pramod sadalage shows that this is not necessarily true continuous integration changed the way software is written why not extend and make the database part of the same continuous integration cycle so that you can see integrated results of your application as well as your database delivered in pdf format for quick and easy access recipes for continuous database integration shows how the database can be brought under the preview of continuous integration allowing all teams to integrate not only their application code but also their database this short cut presents a recipe for each task that needs to be done each recipe starts with a statement of a problem followed by an explanation and solution it provides concrete ways and examples to implement ideas in refactoring databases evolutionary database design by scott w ambler and pramod sadalage table of contents what this short cut covers introduction recipe 1 continuously integrating recipe 2 extracting your database in scripts recipe 3 using version control for your database recipe 4 automating database or schema creation recipe 5 creating objects in your database recipe 6 removing database objects recipe 7 removing your database recipe 8 using the build property files recipe 9 re creating your application database for any build recipe 10 making it easy for new

developers to join the team recipe 11 integrating on every check in recipe 12 naming upgrade scripts recipe 13 automating database change script creation recipe 14 implementing database version checking recipe 15 sending upgrades to customers sample code further reading about the author what s in the companion book related publication

this book provides a wide compendium of references to topics in the field of the databases systems and applications provided by publisher

this two volume set lncs 9827 and lncs 9828 constitutes the refereed proceedings of the 27th international conference on database and expert systems applications dexa 2016 held in porto portugal september 2016 the 39 revised full papers presented together with 29 short papers were carefully reviewed and selected from 137 submissions the papers discuss a range of topics including temporal spatial and high dimensional databases data mining authenticity privacy security and trust data clustering distributed and big data processing decision support systems and learning data streams data integration and interoperability semantic and data semantics social networks and network analysis linked data data analysis nosql newsql multimedia data personal information management semantic and ontologies database and information system architectures query answering and optimization information retrieval and keyword search data modelling and uncertainty

apply domain driven design practices effortlessly to evolve your system into a modern robust application while mastering refactoring techniques that drive real world results key features learn how to modernize your system to make it as frictionless as possible gain hands on experience in applying strategic and tactical patterns through real world examples transform your architecture with practical guidance for seamless refactoring purchase of the print or kindle book includes a free pdf ebook book description as software development continues to grow mastering domain driven design ddd will help transform your approach to complex systems filled with actionable insights and practical examples this book is your essential guide to implementing ddd principles covering its key concepts

and practical applications in modern architecture alessandro an ecommerce specialist and ddd expert with 30 years of experience and alberto a dedicated backend developer tap into their extensive expertise to help you refactor your monolith into a modular structure whether it be evolving into microservices or enhancing a maintainable monolith resulting in a system that adapts to changing business needs and non functional requirements you ll explore vital ddd patterns like strategic design with bounded contexts and ubiquitous language improving communication between technical and domain experts the chapters take you through modeling techniques to manage complexity and increase flexibility while also addressing microservices integration including inter service communication transaction management and data strategies by the end of this book you ll be able to decompose a monolith and refine its architecture for adaptability all while ensuring business logic remains central to your software design and development what you will learn find out how to recognize the boundaries of your system s components apply strategic patterns such as bounded contexts and ubiquitous language master tactical patterns for building aggregates and entities discover principal refactoring patterns and learn how to implement them identify pain points in a complex code base and address them explore event driven architectures for component decoupling get skilled at writing tests that validate and maintain architectural integrity who this book is for this book is ideal for software developers architects and team leads looking to modernize legacy applications using domain driven design principles if you re a backend developer or software engineer looking to enhance your understanding of ddd this guide will elevate your skills in designing robust systems team leads and architects will find valuable insights for guiding their teams through the transition from monoliths to microservices familiarity with c is a must as the book provides practical examples in this language

the two volume set lncs 7044 and 7045 constitutes the refereed proceedings of three confederated international conferences cooperative information systems coopis 2011 distributed objects and applications secure virtual infrastructures doa svi 2011 and ontologies databases and applications of semantics odbase 2011

held as part of otm 2011 in october 2011 in hersonissos on the island of crete greece the 55 revised full papers presented were carefully reviewed and selected from a total of 141 submissions the 28 papers included in the second volume constitute the proceedings of doa svi 2011 with 15 full papers organized in topical sections on performance measurement and optimization instrumentation monitoring and provisioning quality of service security and privacy and models and methods and odbase 2011 with 9 full papers organized in topical sections on acquisition of semantic information use of semantic information and reuse of semantic information and 4 short papers

this textbook covers all central activities of data warehousing and analytics including transformation preparation aggregation integration and analysis it discusses the full spectrum of the journey of data from operational transactional databases to data warehouses and data analytics as well as the role that data warehousing plays in the data processing lifecycle it also explains in detail how data warehouses may be used by data engines such as bi tools and analytics algorithms to produce reports dashboards patterns and other useful information and knowledge the book is divided into six parts ranging from the basics of data warehouse design part i star schema part ii snowflake and bridge tables part iii advanced dimensions and part iv multi fact and multi input to more advanced data warehousing concepts part v data warehousing and evolution and data analytics part vi olap bi and analytics this textbook approaches data warehousing from the case study angle each chapter presents one or more case studies to thoroughly explain the concepts and has different levels of difficulty hence learning is incremental in addition every chapter has also a section on further readings which give pointers and references to research papers related to the chapter all these features make the book ideally suited for either introductory courses on data warehousing and data analytics or even for self studies by professionals the book is accompanied by a web page that includes all the used datasets and codes as well as slides and solutions to exercises

microservices is an architectural style in which large complex software applications are composed of one or more smaller services each of these

microservices focuses on completing one task that represents a small business capability these microservices can be developed in any programming language this ibm redbooks publication shows how to break out a traditional java ee application into separate microservices and provides a set of code projects that illustrate the various steps along the way these code projects use the ibm websphere application server liberty ibm api connecttm ibm bluemix and other open source frameworks in the microservices ecosystem the sample projects highlight the evolution of monoliths to microservices with java and node

this volume presents the proceedings of the third workshop on information systems and artificial intelligence organized by the german computer science society the 11 invited contributions by well known researchers and developers working in the fields of databases and knowledge representation systems are centered around the topic of management and processing of complex data structures they give a representative snapshot of the state of the art in this fruitful interdisciplinary research area important for further progress in both information systems and artificial intelligence most of the papers stress the demands for new or extended formalisms and their deductive capabilities including an analysis of their formal properties for managing complex structures

a database management system dbms is a collection of programs that enable users to create and maintain a database it also consists of a collection of interrelated data and a set of programs to access that data hence a dbms is a general purpose software system that facilitates the processes of defining constructing and manipulating databases for various applications the primary goal of a dbms is to provide an environment that is both convenient and efficient to use in retrieving and storing database information it is an interface between the user of application programs on the one hand and the database on the other the objective of database management system an evolutionary approach is to enable the learner to grasp a basic understanding of a dbms its need and its terminologies discern the difference between the traditional file based systems and a dbms code while learning to grasp theory in a practical way study provided examples and case studies for better comprehension this book is

intended to give under and postgraduate students a fundamental background in dbmss the book follows an evolutionary learning approach that emphasizes the basic concepts and builds a strong foundation to learn more advanced topics including normalizations normal forms pl sql transactions concurrency control etc this book also gives detailed knowledge with a focus on entity relationship er diagrams and their reductions into tables with sufficient sql codes for a more practical understanding

this is a revision of the market leading book for providing the fundamental concepts of database management systems clear explaination of theory and design topics broad coverage of models and real systems excellent examples with up to date introduction to modern technologies revised to include more sql more uml and xml and the internet

the data warehousing market continues to explode and oracle is leading the pack this book provides a sound and practical approach to understanding planning creating and administering an oracle based data warehouse application it clearly describes the tasks involved in building a well designed properly managed and secure date warehouse using oracle from a database administrator s perspective

this volume contains 14 survey articles by reputed database researchers they give an account of the state of the art present research highlights and offer an outlook into the 90s regarding the most likely evolution of database technology research ad tech products and applications the volume is structured into the following parts the evolution of database technology and its impact on enterprise information systems keynote paper demands on database systems in the 90s office engineering science multimedia standardization user aspects application programmers ad hoc query users database system and architecture concepts for novel applications data models object orientation deductive dbms extensibility data replication system and implementation aspects performance and reliability distributed and cooperative dbms hardware impact the volume may serve as an orientation for all those who are interested in database systems and their impact on computer applications publisher s website

this volume contains the proceedings of the 10th australasian database conference adc99 held 18 21 january 1999 in auckland new zealand the 18 refereed papers presented at the conference are divided into six topical sessions and includes the latest research in areas such as data mining data warehousing information retrieval multidimensional databases and workflow systems this book thus summarises some of the most recent research development and novel applications of databases

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