Refactoring Databases Evolutionary Database Design

Refactoring DatabasesRecipes for Continuous Database IntegrationPrinciples of Database Design: Logical organizationsHandbook of Research on Innovations in Database Technologies and ApplicationsMethodologies for Intelligent Systems, ...Graph Data Model and Its Data LanguageProceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conferences--2005Database OptimizationFormal Models and Practical Tools for Information Systems DesignProceedings of the Seventeenth International Conference on Very Large Data Bases, September 3-6, 1991, Barcelona (Catalonia, Spain)Proceedings of the International Conference on Information Systems and Management of Data, 1992View-based Solutions for Schema Evolution ProblemsAnalysis of Evolutionary History, Population Structure and Genetic Diversity of Oryza Glaberrima Steud Based on Microsatellite MarkersVery Large Data BasesVery Large Data BasesDatabase SystemsExtreme Programming RefactoredThe British National BibliographyPrototypingDatabase Journal Scott W. Ambler Pramod J. Sadalage S. Bing Yao Viviana E. Ferraggine Hideko S. Kunii Patrick van Bommel Hans-Jochen Schneider Guy M. Lohman Amy Jyh-Liang Lee Mande Semon Guy M. Lohman Peter Rob Matt Stephens Arthur James Wells M. Lipp

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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

tools for information system design and realization use a methodology for the design and development of interactive information systems properties of user requirements logical and semantical properties of environmental situations for stating information requirements an event based design methodology supported event directed program execution from declarative specifications end user tools for information systems requirement definition constraint specification in evolutionary data base design a new system analysis method based on the sts socio technical system approach an approach for involving the users in the specification of information systems verbal measures and inseperable multidimensional utility

in system evaluation the role of the triggerin systematics a model and a language for functional specifications and evaluation of information systems dynamics

a textbook that blends theory and practice for students of database design part 1 offers six detailed chapters on database design concepts part 2 presents a detailed real world design case in which the concepts of part 1 are applied in addition to database administration part 3 covers three other advanced current database topics transaction management distributed databases and object orientation including discussion of the object orientation and the extended relational database annotation copyright by book news inc portland or

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