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## PL/SQL Advanced Programming Techniques Oracle SQL Developer 2.1

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options to review.

Expert Indexing in Oracle Database 11g is about the one database structure at the heart of almost all performance concerns: the index. Database system performance is one of the top concerns in information technology today. Administrators struggle to keep up with the explosion of access and activity driven by the proliferation of computing into everything from phones to tablets to PCs in our increasingly connected world. At the heart of any good-performing database lies a sound indexing strategy that makes appropriate use of indexing, and especially of the vendor-specific indexing features on offer. Few databases fully exploit the wealth of data access mechanisms provided by Oracle. Expert Indexing in Oracle Database 11g helps by bringing together information on indexing and how to use it into one, convenient, and blissfully short volume that you can read quickly and have at your fingertips for reference. Learn the different types of indices available and when each is best applied. Recognize when queries aren't using indices as you intend. Manage your indexing for maximum performance. Let Expert Indexing in Oracle Database 11g be your guide to deep mastery of the most fundamental performance optimization structure in Oracle Database. Explains how indices work, how they help, and how they hinder. Demystifies the various indexing choices. Describes the database administration chores associated with indices. ORACLE 11G: SQL is not simply a study guide; it is written for individuals who have just a basic knowledge of databases and can be utilized in a course on this latest implementation of SQL from Oracle. This book only contains practice questions and answers for the 1Z0-047 Oracle Database 11g SQL Fundamentals I exam. Master the XML Programming Features in Oracle Database 11g. Develop, debug, and administer data-backed XML applications using the expert instructions and best practices in this Oracle Press guide. Oracle Database 11g

Building Oracle XML DB Applications discusses the latest development tools, technologies, and components. Find out how to set up Oracle XML Database (Oracle XML DB), build XML applications in Oracle JDeveloper 11g, work with XSLT stylesheets, and incorporate full-text search. Troubleshooting, performance tuning, and security are also covered in this comprehensive resource. Create, store, and query XML types using Oracle XML DB Load XML documents into relational tables and define SQL views Parse and validate schema with Oracle XDK for Java and PL/SQL packages Merge documents, generate reports, and transform data using XSLT Construct applications from Oracle XML DB Web services Use Oracle JDeveloper 11g to design and deploy XML applications Integrate Oracle Text and Oracle Secure Enterprise Search features Streamline the development process using Oracle Application Express Guia oficial da Oracle Press, este livro mostra como escrever instruções SQL e programas PL/SQL de alto desempenho e com recursos avançados. Escrita por Jason Price, a obra aborda os últimos recursos e ferramentas SQL, técnicas de otimização de desempenho, consultas avançadas, suporte à Java e XML. Baseado em John Patrick's hands-on SQL IT professionals at the University of California, Berkeley, this book shows exactly how to retrieve the data you want, when you need it, in any application. This 2nd edition is completely updated to include Oracle 9i and Access 2000. Write Powerful SQL Statements and PL/SQL Programs Learn how to access Oracle databases through SQL statements and construct PL/SQL programs. Oracle Database 12c SQL offers complete coverage of the latest database features and techniques. Find out how to write SQL statements to retrieve and modify database information, use SQL\*Plus and SQL Developer, work with database objects, write PL/SQL programs, use performance optimization techniques, incorporate XSLT and more. This Oracle Press guide contains everything you need to know to master SQL. Use SQL statements to access an Oracle database Work with SQL\*Plus and SQL Developer Write PL/SQL programs

Create tables, sequences, indexes, views, and triggers Design advanced queries containing complex calculations Create database objects to handle abstract data Use date, time stamp, and time interval data Establish user roles and privileges Handle multimedia files using large objects Tune SQL statements to make them execute faster Generate process, and store XML data Master the very latest Oracle Database features Code examples in the book are available for download. See Alapati's Expert Oracle Database 11g Administration is a comprehensive handbook for Oracle database administrators (DBAs) using the 11g release of the Oracle Database. All key aspects of database administration are covered, including backup and recovery, day-to-day administration and monitoring, performance tuning, and more. This is the one book to have on your desk as a continual reference. Refer to it frequently. It'll help you get the job done. Comprehensive handbook for Oracle Database administrators. Covers all major aspects of database administration. Tests and explains in detail key DBA commands. Offers primers on Linux/Unix, data modeling, SQL, and PL/SQL. Build and manage your Oracle Database XE environment with this fast paced, practical guide Developed as a practical book, "Oracle Database 11g Administration I Certification Guide" will show you all you need to know to effectively excel at being an Oracle DBA, for both examinations and the real world. This book is for anyone who needs the essential skills to become an Oracle DBA, pass the Oracle Database Administration I exam, and use those skills in the real world to manage secure, high performance, and highly available Oracle databases. Performance problems are rarely "problems" per se. They are more often "crises" during which you're pressured for results by a manager standing outside your cubicle, your phone rings with queries from the help desk. You won't have time for a leisurely perusal of the manuals, nor to lean back and read a book on theory. What you need in that situation is a book of solutions and solutions are precisely what Oracle Database 11g Performance

Tuning Recipes delivers. Oracle Database 11g Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database. The book takes an example-based approach, wherein each chapter covers a specific problem domain. Within each chapter are "recipes" showing by example how to perform common tasks in that chapter domain. Solutions in the recipes are backed by clear explanations of background and theory from the author team. Whatever the task, performance-related, you'll probably find a recipe and a solution in this book. Provides proven solutions to real-life Oracle performance problems Offers relevant background and theory to support each solution Written by a team of experienced database administrators successful in their careers This book is packed with real word examples Each major certification topic is covered in a separate chapter, which helps to make understanding of concepts easier. At the end of each chapter, you will find a variety of practice questions to strengthen and test your learning. You will get a feel for the actual SQL Fundamentals I exam by solving practice papers modeled on it. This book is for anyone who needs the essential skills to pass the Oracle Database Fundamentals I exam and use those skills in daily life as an SQL developer or database administrator. A Fully Integrated Study System for OCP Exam 1Z0-050 Prepare for the Oracle Certified Professional Oracle Database 11g New Features for Administrators exam with 100 questions from this exclusive Oracle Press guide. In each chapter, you'll find challenging exercises, practice questions, a two-minute drill, and a chapter summary to highlight what you've learned. This authoritative guide will help you pass the test, and serve as your essential on-the-job reference. Get complete coverage of all OCP objectives for exam 1Z0-050, including: Installation and upgrades Partitioning and storage Intelligent infrastructure Diagnostics and fault management Performance Oracle Recovery Manager and Oracle Flashback Security Oracle SQL Performance Analyzer SQL plan management Automatic

SQL tuning On the CD-ROM: One full practice exam that simulates the actual OCP exam Detailed answers and explanations Score report performance assessment tool Complete electronic book Bonus exam available free with online registration Design and Develop Databases using Oracle SQL Developer and its feature-rich, powerful user-extensible interface with this book and eBook. Pro Oracle Database Administration is a book focused on results. Author Darl Kuhn draws from a well of experience over a decade deep to lay out real-world techniques that lead to success as an Oracle Database administrator. He gives clear explanations on how to perform critical tasks. He writes in theory where necessary without bogging you down in unnecessary detail. He is not afraid to take a stand on how things should be done. He won't leave you adrift in a sea of choices, showing you three ways to do something and then walking away. Database administration is about passing a certified exam, or about pointing-and-clicking your way through a crisis. Database administration is about applying the right solution at the right time, about avoiding risk, about making robust choices that get you home each night in time for dinner with your family. If you have "buck stops here" responsibility for an Oracle database, then Pro Oracle Database 11g Administration is the book you need to help elevate yourself to the level of Professional Oracle Database Administrator. Condenses and organizes the core job of a database administrator into one volume. Takes a results-oriented approach to getting things done. Lays a foundation upon which to build a senior level of expertise Candidates for the Oracle Certified Associate in Oracle Database 11g need to pass Exams 1Z0-051 and 1Z0-052 to achieve their certification—this guide prepares you for taking both exams. This two-in-one study guide covers the Oracle Certified Associate certification for Oracle database 11g and reviews exam topics such as restricting and sorting data, using conversion functions and conditional expressions, displaying data from multiple tables, and exploring the Oracle database architecture. Plus, you'll learn how to



create and maintain an Oracle database, perform database backup and recovery, move and manipulate data, prepare the database environment, and more. Note: CD-ROM/DVD and other supplemental materials are not included as part of eBook file. For Instructors: Teaching supplements are available for this title. Completely up-to-date for the new database release, this Oracle Press guide explains how to write robust, database-driven PL/SQL applications. Full details on the PL/SQL language, scripting semantics, and syntax are included. Learn how to write powerful programs, interact with Oracle databases, perform complex calculations, and handle error conditions. It also features a real-world example that runs throughout the book to illustrate the programming techniques presented. Design Feature-Driven PL/SQL Applications Deliver dynamic, client/server PL/SQL applications with expert guidance from an Oracle programming professional. With full coverage of the latest features and tools, Oracle Database 11g PL/SQL Programming lays out each topic alongside detailed explanations, cut-and-paste syntax examples, and real-world case studies. Access and modify database information, construct powerful PL/SQL statements, execute effective queries, and deploy bulletproof security. You'll also learn how to implement C, C++, and Java procedures, Web-enable your database, cut development time, and optimize performance. Create, debug, and manage Oracle-driven PL/SQL programs Use PL/SQL structures, delimiters, operators, variables, and statements Identify and eliminate errors using PLSQL\_WARNINGS and exception handlers Work with functions, procedures, packages, collections, and triggers Define and deploy varray, nested table, and associative array data types Handle external routines, object types, large objects, and secure files Communicate between parallel sessions using DBMS\_ALERT and DBMS\_PIPE Call external procedures through Oracle Net Services and PL/SQL wrapper Integrate internal and server-side Java class libraries using Oracle JVM Develop robust Web applications using PL/SQL Gateway and

Web Toolkit ORACLE 11G: SQL is an introduction to the fundamental SQL language used in all relational databases today. This textbook is not simply a study guide; it is written for those who have just a basic knowledge of databases and can be used in a course on this latest implementation of SQL from Oracle. Learning these concepts and techniques prepares students for the first exam in both the Oracle Database Administrator and Oracle Developer Certification Exam paths and offers a solid understanding of using Oracle 11g SQL effectively. The first part of ORACLE 11G: SQL focuses on creating database objects, including tables, constraints, indexes, sequences, synonyms, and users, and manipulating data. The second part explains data query techniques, such as row filtering, joins, single-row functions, aggregate functions, subqueries, and views. Several advanced query topics, such as ROLLUP, CUBE, and TOP-N analysis are also introduced. To help students bridge these SQL topics to real-world studies, appendixes introduce SQL tuning, compare Oracle's SQL syntax with other databases (MS SQL Server and MySQL), and explain how to embed SQL in applications (ASP.NET). An overview of the two Oracle connection interface tools, SQL Developer and SQL Plus, is provided. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This book will enable you to test your knowledge around; Understand the basic concepts of relational databases and write refined code by developers. Create reports of sorted and restricted data. Run data manipulation statements (DML). Control database access to specific objects. Manage schema objects. Manage objects with data dictionary views. Retrieve row and column data from tables. Control privileges at the object and system level. Create indexes and constraints. Alter existing schema objects. Create and query external tables. Develop Feature-Rich PL/SQL Applications Deliver dynamic, client/server PL/SQL applications with expert guidance from an Oracle programming professional. With full coverage of the latest features

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Oracle Database concepts, Part 2 teaches you how to implement Oracle database correctly, Part 3 exposes you to the daily routine database administrator, and Part 4 introduces you to the fine art performance tuning. Each chapter has exercises designed to help you apply the lessons of the chapter. Each chapter also includes a list of reference works that contain more information on the topic of the chapter. In this book, you'll find information that you won't find in other books on Oracle Database. Here you'll discover not only technical information, but also guidance on work practices that are as vital to your success as technical skills. The author's favorite chapter is "The Big Picture and the Ten Deliverables." If you take the lessons in this chapter to heart, you can quickly become a much better Oracle database administrator than you ever thought possible. Provides beginning DBAs and developers with a solid foundation in the data administration and programming basics needed to embark on an Oracle career. The focus is on Oracle Database 10g, but you'll get fundamentals applicable to all Oracle database releases. Take Your PL/SQL Programming Skills to the Next Level Build robust database-centric PL/SQL applications quickly and effectively. Oracle Database 12c PL/SQL Advanced Programming Techniques shows you how to write and deploy Java libraries inside Oracle Database 12c, use the `utl_file` and `DBMS_SCHEDULER` packages, and create external tables and external procedures. Application security, performance tuning, Oracle Database In-Memory are also covered in this Oracle Press guide. Configure, deploy, and troubleshoot Java libraries for Oracle object types Use the `utl_file` package to manage unstructured and structured data Develop and deploy Java I/O libraries and wrap them with PL/SQL Create and use external tables Implement high-speed data transfer Harden database systems and develop secure applications Manage complex schedules and jobs with the `DBMS_SCHEDULER` package Optimize PL/SQL for use in performance tuning Create and deploy external procedures Implement the Oracle Database In-Mem

column store feature Experienced PL/SQL programmers and Oracle developers will learn to master Oracle's procedural extension to industry-standard SQL. Using this authoritative resource, readers will become experts at developing robust, high-performance enterprise applications with PL/SQL. Detailed examples describe the practical aspect of each feature, and provide ideas to the reader of how to best exploit the functionality. An official Oracle test preparation manual for candidates dealing with the Oracle Certified Associate Oracle Database 11g: SQL Fundamentals I exam covers all relevant topics, including installation, configuration, application tuning, database management, backup and recovery, security, and more, accompanied by a CD-ROM containing two practice exams with answer keys and an electronic version of the book. Original.

(Intermediate) This Study Guide is targeted at IT professionals who are working towards becoming an Oracle Database 11g Administrator Certified Professional. The book provides information covering all of the exam topics for the Oracle certification exam: "1Z0-051: Oracle Database 11g: SQL Fundamentals I." The books in the Oracle Certification Prep series are built in lockstep with the test topics provided by Oracle Education's certification program. Each book is intended to provide the information that will be tested in a clean and concise format. The guides introduce the subject you'll be tested on, follow that with the information you'll need to know for it, and then move on to the next topic. They contain no drills or unrealistic scenarios to bump the page count without adding value. The series is intended to provide a concentrated source of exam information that is compact enough to be read through multiple times. This series is ideal for experienced Oracle professionals that are familiar with the topic being tested, but want a means to rapidly reinforce their existing skills and bridge any gaps in their knowledge. It is also an excellent option as a second source of information for candidates pursuing certification. This Study Guide is targeted at IT professionals who are working

towards becoming an Oracle Certified Associate in the PL/SQL developer track. The book provides information covering all of the exam topics for the Oracle certification exam: "1Z0-144: Oracle Database 11g: Program with PL/SQL." The books in the Oracle Certification Prep series are built in lockstep with the test topics provided by Oracle Education's certification program. Each book is intended to provide the information that will be tested in a clean, concise format. The guides introduce the subject you'll be tested on, follow that with the information you'll need to know for it, and then move on to the next topic. They contain no drills or unrealistic scenarios to bump the page count without adding value. The series is intended to provide a concentrated source of exam information that is compact enough to be read through multiple times. This series is ideal for experienced Oracle professionals that are familiar with the topic being tested, but want a means to rapidly reinforce their existing skills and bridge any gaps in their knowledge. It is also an excellent option as a second source of information for candidates pursuing certification.

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Identify and eliminate database performance problems with help from Oracle Certified Master Richard Niemiec. Filled with real-world case studies and best practices, *Oracle Database 11g Release 2 Performance Tuning Tips & Techniques* details the latest monitoring, troubleshooting, and optimization methods. Find out how to find and fix bottlenecks, configure storage devices, execute effective queries, and develop bug-free SQL and PL/SQL code. Testing, reporting, and security enhancements are also covered in this Oracle Press guide.

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Workload Repository tools Use sar, vmstat, and iostat to monitor statistics "This is a timely update of Rich's classic book on Oracle Database performance tuning to cover hot new topics like Oracle Database 11g Release 2 and Oracle Exadata. This is a must-have for DBAs moving to these new products." --Andrew Mendelsohn, Senior Vice President, Oracle Database Server Technologies This brilliant new book gives readers the lowdown on the most important new features in the latest release of Oracle's flagship database product. Authors Sam Alapati and Charles Kim are experienced database administrators who go beyond regurgitating Oracle's new feature documentation to reveal on "what's new that really matters." Readers whose careers are built up in Oracle's database system need to know what's new. Sam and Charles deliver with a rigor and candor that will help readers choose the best of the new features to apply in their own environments.

**Solid Foundation in Oracle Database Technology Master Oracle Database 11g fundamentals quickly and easily. Using self-paced tutorials, this book covers core database essentials, the role of the administrator, high availability, and large database features. Oracle Database 11g: A Beginner's Guide walks you, step by step, through database setup, administration, programming, backup, and recovery. In-depth introductions to SQL and PL/SQL are included. Designed for easy learning, this exclusive Oracle Press guide offers:**

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- Projects--Practical exercises that show how to apply the critical skills learned in each chapter
- Progress Checks--Quick self-assessment sections to check your progress
- Notes--Extra information related to the topic being covered
- Mastery Checks--Chapter-ending quizzes to test your knowledge

**FOREWORD by Tom Kyte Your Must-Have Guide to Everything New in Oracle Database 11g Realize the full potential of Oracle Database 11g with help from the experts. Written by Robert Freeman, and with insightful commentary throughout from Arup**

Nanda, this Oracle Press guide offers full details on the architectural changes, database administration upgrades, availability and recovery revisions, security enhancements, and programming innovations. Every new and updated feature is covered and presented with screenshots, code samples, tables, and charts. Find out how to take full advantage of all the new and improved capabilities of Oracle Database 11g, including: New Oracle Automatic Storage Management features, such as Fast Disk Resync, Compatibility Attributes, Preferred Mirror Redundancy and Rolling Upgrade components Improved Automated Memory Management capabilities New database design features, such as virtual columns, tablespace encryption, and true table-level data compression New Database Advisors for data recovery and repair, partitioning, streams performance New tuning features, such as Automatic SQL Tuning and SQL Performance Analyzer Enhancements to Oracle RMAN, including active database duplication and UNDO backup optimization Improved auditing and security capabilities Advanced data warehousing, and partitioning features New SQL and PL/SQL enhancements The book teaches the basics of the Oracle database from a beginner's perspective to the advanced concepts using a hands-on approach. Each and every concept has been elaborated with suitable practical examples along with code for clear and precise understanding of the topic. Using a practical approach, the book explains how to retrieve, add, update and delete data in the Oracle database using SQL\*PLUS and PL/SQL. In the process, it discusses the various data types and built-in functions of Oracle, as well as the sorting of records and the table operations. The text also includes coverage of advanced queries using special operators, Oracle security, indexing, and stored functions and procedures. The book is suitable for undergraduate engineering students of Computer Science and Information Technology, B.Sc. (Computer Science/IT), M.Sc. (Computer Science/IT) and students of Computer Applications (BCA, MCA, PGDCA, and DCA). Besides, the book can be used as a reference by



professionals pursuing short-term courses on Oracle Database and students of Oracle Certified Courses. Master Oracle Database 12c PL/SQL Application Development Develop, debug, and administer robust database programs. Filled with detailed examples and expert strategies from an Oracle ACE, Oracle Database 12c PL/SQL Programming explains how to retrieve and process data, write PL/SQL statements, execute effective queries, incorporate PHP and Java, and work with dynamic SQL. Code testing, security, and object-oriented programming techniques are fully covered in this comprehensive Oracle Press guide. Explore new SQL and PL/SQL features in Oracle Database 12c Build control structures, cursors, and loop statements Work with collections, varrays, tables, and associative array collections Locate and repair errors and employ exception handlers Execute black box, white box, and integration tests Configure and manage stored packages and libraries Handle security with authentication and encryption Use LOBs to store text and multimedia content Write and implement PL/SQL and Java triggers Extend functionality using dynamic SQL statements Understand object types, nested tables, and unnesting queries Master Application Development in a Mixed-Platform Environment Build powerful database applications in a mixed environment using the detailed information in this Oracle Press guide Oracle Database 11g & MySQL 5.6 Developer Handbook lays out programming strategies and best practices for seamlessly operating between the two platforms. Find out how to migrate databases, compare SQL dialects, work with Oracle MySQL databases, and configure effective queries. Security, monitoring, and tuning techniques are also covered in this comprehensive volume. Understand Oracle Database 11g and MySQL 5.6 architecture Convert databases between platforms and ensure transactional integrity Create tables, sequences, indexes, views, and user accounts Build and debug PL/SQL, SQL\*Plus, SQL/PSM, and MySQL Monitor scripts Execute complex queries and handle numeric and date mathematics Merge data from source tables

and set up virtual directories The Definitive Guide to Oracle Database 11g Get full details on the powerful features of Oracle Database 11g from this thoroughly updated Oracle Press guide. Oracle Database 11g: The Complete Reference explains how to use all the new features, tools, execute powerful SQL queries, construct PL/SQL and SQL\*Plus statements, and work with large objects and object-relational data. Learn how to implement the latest security measures, tune database performance, and deploy grid computing techniques. An invaluable cross-referenced appendix containing Oracle commands, keywords, features, and functions is also included. Install Oracle Database 11g, upgrade from an earlier version Create database tables, sequences, indexes, views, and user accounts Construct SQL statements, procedures, queries, and subqueries Optimize security using virtual private databases and transparent data encryption Import and export data using SQL\*Loader and Oracle Data Pump Use SQL replay, change management, and result caching Avoid human errors using flashback and automatic undo management Build and tune PL/SQL triggers, functions, and packages Develop database applications using Java, JDBC, and XML Optimize availability and scalability with Oracle Real Application Clusters The World's #1 Hands-On Oracle SQL Workbook—Fully Updated for Oracle 11g Crafted for hands-on learning and tested in classrooms worldwide, this book illuminates in-depth every Oracle SQL technique you'll need. From the simplest query fundamentals to regular expressions and with newly added coverage of Oracle's powerful new SQL Developer tool, you will focus on the techniques that matter most. Hundreds of step-by-step, guided lab exercises systematically strengthen your expertise in writing effective, high-performance SQL. Along the way, you'll acquire a powerful arsenal of useful skills—and an extraordinary library of solutions for your real-world challenges with Oracle SQL. Coverage includes 100% focused Oracle SQL for Oracle 11g, today's #1 database platform—not “generic” SQL! Master all core SQL techniques including every type

join such as equijoins, self joins, and outer joins Understand Oracle functions in depth, especially character, number, date, timestamp, interval, conversion, aggregate, regular expressions, analytical, and more Practice all types of subqueries, such as correlated and scalar subqueries, and learn about set operators and hierarchical queries Build effective queries and learn fundamental Oracle SQL Developer and SQL\*Plus skills Make the most of the Data Dictionary and create tables, views, indexes, and sequences Secure databases using Oracle privileges, roles, and synonyms Explore Oracle 11g's advanced data warehousing features Learn many practical tips about performance optimization, security, and architectural solutions Avoid common pitfalls and understand and solve common mistakes For every database developer, administrator, designer, or architect, regardless of experience! A real-world DBA survival guide for Oracle 11g database implementations with this book and eBook. Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Write powerful SQL statements and PL/SQL programs Learn to access Oracle databases through SQL statements and construct PL/SQL programs with guidance from Oracle expert Jason Price. Published by Oracle Press, Oracle Database 11g SQL explains how to retrieve and modify database information, use SQL\*Plus and SQL Developer, work with database objects, write PL/SQL programs, and much more. Inside, you'll find in-depth coverage of the very latest SQL features and tools, performance optimization techniques, advanced queries, Java support, and XML. This book contains everything you need to master SQL. Explore SQL\*Plus and SQL Developer Use SQL SELECT, INSERT, UPDATE, and DELETE statements Write PL/SQL programs Create tables, sequences, indexes, views, and triggers Write advanced queries containing complex analytical functions Create database objects and collections to handle abstract data Use large objects to handle multimedia files containing

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