

# Oracle 11g Performance Tuning Interview Questions

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*Oracle 11g Performance Tuning Interview Questions*

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## **MCKENZIE SWANSON**

[SQL the One](#) Apress

As representatives from the IT community, all of us have had our own experiences of attending interviews - clearing or close to clearing and sometimes with tons of questions and doubts failing miserably. These stories are in the most pleasant or not so pleasant memories of our mind and we will assure you this book will kindle those memories for sure. We have taken tons of interviews and most of the interviews are not revolving around how deep technical and internals you know about the subject - but it revolves around how good you are with the basics.To clear an interview, one doesn't need to know inside-out of a subject, and subjects like "SQL Server" so vast that every single day we learn something new with this product, and even a complete lifetime will fly off if we keep doing this. Again, the various roles one can get into for products like SQL Server are from Database Developer, Database Modelers, Database Architect, Database Administrator and many more. Hence, this book is geared towards demystifying and a refresher for memories on the fundamentals which sometimes are the most important things to clear any type of interview for any role. Some of the concepts discussed are generic and are not tied to any specific version of SQL Server, but most of it the new features introduced with SQL Server have been included in this book.This book is not a shortcut or a sure to crack interview guide but this book gets you prepared in an

organized manner. Let us also assure you this is neither a completely comprehensive guide but surely is a great starter nevertheless. Use this to guide you and be mentally prepared for the big day. When faced with this big day, we get overwhelmed and confused about where to start our preparation. And this book is just that secret recipe in your arsenal to get geared up. Sometimes these basics will help you narrow to a solution quickly when given a scenario.Now this book's flow is "Question & Answer" mode from start till the end to help you grasp the concepts faster and to the point. Once you get an understanding of concepts, then if we are twisted with the concept in a scenario it becomes easy to solve them. Most companies have a typical way to do interviews which are based on the scenario as per their environment and these are just combinations of the concepts to fit their need and SLA.Though each of these chapters is bucketed for convenience we highly recommend reading each of the sections nevertheless irrespective of the roles you might be doing as each of the sections have some interesting trivia's working with SQL Server. In the industry, the role of accidental DBA's especially with SQL Server is so common. Hence if you have performed the role of DBA for a short stink and want to brush-up your fundamentals then the respective sections will be a great skim.

*Oracle Database Performance Tuning Interview Questions, Answers and Explanations* Rampant TechPress

"Best practices for optimizing database performance"--Cover.

[Oracle DBA Interview Questions & Answers](#) "O'Reilly Media, Inc."

If a query is performing poorly, and you can't understand why, then that query's execution plan will tell you not only what data set is coming back, but

also what SQL Server did, and in what order, to get that data. It will reveal how the data was retrieved, and from which tables and indexes, what types of joins were used, at what point filtering, sorting and aggregation occurred, and a whole lot more. These details will often highlight the likely source of any problem. I wrote this book with the singular goal of teaching you how to read SQL Server Execution plans It will explain, among many other things, the following: How to capture execution plans using manual and automatic methods A documented method for reading and interpreting execution plans How common SQL Server objects, such as indexes, views, stored procedures, and so on, appear in execution plans How to control execution plans with hints and plan guides, and why this is a double-edged sword How the Query Store works with, and collects data on, execution plans With this knowledge, you'll have everything you need to read the execution plan, for any query of your own, regardless of complexity, and understand what it does and what is causing the bad performance. It is still your job to work out how best to fix it, but your new understanding of execution plans will give a much better chance of success!

*Zabbix Performance Tuning* Apress

Oracle Performance Survival Guide A Systematic Approach to Database Optimization The fast, complete, start-to-finish guide to optimizing Oracle performance Oracle Performance Survival Guide offers a structured, systematic, start-to-finish methodology for optimizing Oracle performance as efficiently as possible. Leading Oracle expert Guy Harrison shows how to maximize your tuning investment by focusing on causes rather than symptoms, and by quickly identifying the areas that deliver the greatest “bang for the buck.” Writing for DBAs and developers with all levels of experience, Harrison covers every area of Oracle performance management, from application design through SQL tuning, contention management through memory and physical IO management. He also presents up-to-the-minute guidance for optimizing the performance of the Oracle 11g Release 2. You'll start by mastering Oracle structured performance tuning principles and tools, including techniques for tracing and monitoring Oracle execution. Harrison illuminates the interaction between applications and databases, guides you through choosing tuning tools, and introduces upfront design techniques that lead to higher-performance applications. He also presents a collection of downloadable scripts for reporting on all aspects of database performance. Coverage includes • “Tuning by layers,” the most effective, highest-value approach to Oracle performance optimization • Making the most of Oracle’s core tools for tracing, monitoring, and diagnosing performance • Highly efficient database logical and physical design, indexing, transaction design, and API use • SQL and PL/SQL tuning, including the use of parallel SQL techniques • Minimizing contention for locks, latches, shared memory, and other database resources • Optimizing memory and physical disk IO • Tuning Real Application Cluster (RAC) databases guyharrison.net informit.com/ph

*Expert One-on-One Oracle* Independently Published

Java application performance is tied pretty heavily to the underlying Java Virtual Machine, and the new 1.4 version of Java has significant changes that mean previously used performance tips and strategies may no longer work. Significantly revised and expanded, this second edition not only covers Java 1.4, but adds new coverage of JDBC, NIO, Servlets, EJB and JavaServer Pages. Suitable for intermediate and advanced Java developers, this text also covers JDBC, RMI/CORBA, Servlets, JavaServer Pages and custom tag libraries, XML, internationalization, JavaMail, Enterprise JavaBeans and performance tuning. It should be a useful resource for teaching how to create a tuning strategy, how to use profiling tools to understand a program's behaviour, and how to avoid performance penalties from inefficient code, making them more efficient and effective. The result is code that's robust, maintainable and fast.

**SQL Tuning** Dreamtech Press

The fourth edition of this popular pocket guide provides quick-reference information that will help you use Oracle's PL/SQL language, including the newest Oracle Database 11g features. It's a companion to Steven Feuerstein and Bill Pribyl's bestselling Oracle PL/SQL Programming. This concise guide boils down the most vital PL/SQL information into an accessible summary of: Fundamental language elements (e.g., block structure, datatypes, declarations) Statements for program control, cursor management, and exception handling Records, procedures, functions, triggers, and packages Calling PL/SQL functions in SQL Compilation options, object-oriented features, collections, and Java integration The new edition describes such Oracle Database 11g elements as PL/SQL's function result cache, compound triggers, the CONTINUE statement, the SIMPLE\_INTEGER datatype, and improvements to native compilation, regular expressions, and compiler optimization (including intra-unit inlining). In addition, this book now includes substantial new sections on Oracle's built-in functions and packages. When you need answers quickly, the Oracle PL/SQL Language Pocket Reference will save you hours of frustration.

*Mastering Oracle PL/SQL* Elsevier

Looking for oracle database administration (DBA) jobs? Then this book will provide complete details on interview Oracle DBA administration interview questions and answers. This book helps you in cracking your interview & acquire dream career as Oracle DBA Administrator. This book is a perfect companion to stand ahead above the rest in today's competitive job market.Sections to be discussed: ORACLE - DATABASE ARCHITECTUREORACLE - PATCHING, CLONING & UPGRADEORACLE - ASMORACLE - RACORACLE - DATAGUARDORACLE - PERFORMANCE TUNINGORACLE - EXADATA

*Beginning Oracle Database 11G Administration:From Novice To Professional* Pearson Education

Coding and testing are generally considered separate areas of expertise. In this practical book, Java expert Scott Oaks takes the approach that anyone who works with Java should be adept at understanding how code behaves in the Java Virtual Machine—including the tunings likely to help performance. This updated second edition helps you gain in-depth knowledge of Java application performance using both the JVM and the Java platform. Developers and performance engineers alike will learn a variety of features, tools, and processes for improving the way the Java 8 and 11 LTS releases perform. While the emphasis is on production-supported releases and features, this book also features previews of exciting new technologies such as ahead-of-time compilation and experimental garbage collections. Understand how various Java platforms and compilers affect performance Learn how Java garbage collection works Apply four principles to obtain best results from performance testing Use the JDK and other tools to learn how a Java application is performing Minimize the garbage collector’s impact through tuning and programming practices Tackle performance issues in Java APIs Improve Java-driven database application performance

*Microsoft SQL Server 2012 Unleashed* Red Gate Books

Maximize Oracle Exadata Capabilities Leverage all of the powerful features available in the Oracle Exadata Database Machine using the proven techniques inside this Oracle Press guide. Written by Oracle experts, Achieving Extreme Performance with Oracle Exadata shows you how to take full advantage of this complete, optimized package of software, servers, and storage. Best practices for enterprise deployments, high availability, administration, backup and recovery, data warehousing, online transaction processing, consolidation, and migration are included in this authoritative resource. Take advantage of the tightly integrated hardware and software in the Oracle Exadata Database Machine Work with Oracle Exadata software features, including Smart Scans, Oracle Exadata Hybrid Columnar Compression, storage indexes, Oracle Exadata Smart Flash Cache, and I/O Resource Manager Understand Oracle Exadata Database Machine balanced hardware architecture Architect, administer, and monitor Oracle Exadata Storage Servers Deploy data warehouses on the Oracle Exadata Database Machine Run online transaction processing (OLTP) workloads on the Oracle Exadata Database Machine Consolidate databases with and migrate databases to the Oracle Exadata Database Machine

**Oracle Advanced PL/SQL Developer Professional Guide** O'Reilly Media

Canada was young during the First World War, and with as many as 20,000 underage soldiers leaving their homes to join the war effort, the country's army was, too. Jim, at 17, was one of them, and he penned countless letters home. But these weren't the writings of an ordinary boy. They were the letters of a lad who left a small farming community for the city on July 15, 1915, a boy who volunteered to serve with the 79th Queen's Own Cameron Highlanders. Jim's letters home gloss over the horrors of war, focusing instead on issues of the home front: of harvesting, training the horses, and the price of hogs. Rarely do these letters, especially those to his mother and father, mention the mud and rats, the lice and stench of the trenches, or the night duty of cutting barbed wire in no man's land. For 95 years his letters remained in a shoebox decorated by his mother. Jim was just 18 when he was wounded and died during the Battle of the Somme. Hold the Oxo! tells the story that lies between the lines of his letters, filling in the historical context and helping us to understand what it was like to be Jim.

*SQL Queries for Mere Mortals* Packt Publishing Ltd

"Offers hundreds of hints, tips, and tricks of the trade that can be useful to any DBA wanting to achieve maximum performance of Oracle applications. No Oracle library would be complete without this book." --Ken (Dr. DBA) Jacobs, Vice President of Product Strategy for Server Technologies, Oracle Corporation "Rich is the first and last stop for Oracle Database technology and performance tuning. His knowledge is a vital tool that you need to successfully negotiate the waters of Oracle database development." --Mike Frey, Principal Architect, Navteq

*Achieving Extreme Performance with Oracle Exadata* "O'Reilly Media, Inc."

Open the door to a career as an Oracle database administrator as you learn to plan for and install the Oracle Database software. Then learn the rudiments of database administration from longtime Oracle expert Iggy Fernandez. Take advantage of the high demand for Oracle expertise and use Beginning Oracle Database 11g Administration to launch you on the right track to Oracle DBA career success.Part 1: Database ConceptsChapter 1: Relational Database Management SystemsChapter 2: SQL and PL/SQLChapter 3: Oracle ArchitecturePart II: Database ImplementationChapter 4: PlanningChapter 5: Software InstallationChapter 6: Database CreationChapter 7: Physical Database DesignChapter 8: User Management and Data LoadingPart III: Database SupportChapter 9: Taking ControlChapter 10: MonitoringChapter 11: Fixing ProblemsChapter 12: BackUpsChapter 13: RecoveryChapter 14: Database MaintenanceChapter 15: The Big Picture and the Ten DeliverablesPart IV: Database TuningChapter 16: Instance TuningChapter 17: SQL Tuning

*Java Performance Tuning* Prentice Hall

Includes the three aspects of Oracle database tuning - data model tuning, SQL & PL/SQL code tuning, and physical as well as configuration tuning.

This title contains guidance and real-world examples using large datasets. It emphasizes development as opposed to operating system perspective.

**Oracle PL/SQL Best Practices** Microsoft Press

When you use Hibernate in your projects, you quickly recognize that you need to do more than just add @Entity annotations to your domain model classes. Real-world applications often require advanced mappings, complex queries, custom data types and caching. Hibernate can do all of that. You just have to know which annotations and APIs you need to use. Hibernate Tips - More than 70 solutions to common Hibernate problems shows you how to efficiently implement your persistence layer with Hibernate's basic and advanced features. Each Hibernate Tip consists of one or more code samples and an easy to follow step-by-step explanation. You can also download an example project with executable test cases for each Hibernate Tip. Throughout this book, you will get more than 70 ready-to-use solutions that show you how to: - Define standard mappings for basic attributes and entity associations. - Implement your own attribute mappings and support custom data types. - Use Hibernate's Java 8 support and other proprietary features. - Read data from the database with JPQL, Criteria API, and native SQL queries. - Call stored procedures and database functions. This book is for developers who are already working with Hibernate and who are looking for solutions for their current development tasks. It's not a book for beginners who are looking for extensive descriptions of Hibernate's general concepts. The tips are designed as self-contained recipes which provide a specific solution and can be accessed when needed. Most of them contain links to related tips which you can follow if you want to dive deeper into a topic or need a slightly different solution. There is no need to read the tips in a specific order. Feel free to read the book from cover to cover or to just pick the tips that help you in your current project.

**Oracle PL/SQL Language Pocket Reference** Apress

A poorly performing database application not only costs users time, but also has an impact on other applications running on the same computer or the same network. SQL Tuning provides an essential next step for SQL developers and database administrators who want to extend their SQL tuning expertise and get the most from their database applications. There are two basic issues to focus on when tuning SQL: how to find and interpret the execution plan of an SQL statement and how to change SQL to get a specific alternate execution plan. SQL Tuning provides answers to these questions and addresses a third issue that's even more important: how to find the optimal execution plan for the query to use. Author Dan Tow outlines a timesaving method he's developed for finding the optimum execution plan--rapidly and systematically--regardless of the complexity of the SQL or the database platform being used. You'll learn how to understand and control SQL execution plans and how to diagram SQL queries to deduce the best execution plan for a query. Key chapters in the book include exercises to reinforce the concepts you've learned. SQL Tuning concludes by

addressing special concerns and unique solutions to "unsolvable problems."Whether you are a programmer who develops SQL-based applications or a database administrator or other who troubleshoots poorly tuned applications, SQL Tuning will arm you with a reliable and deterministic method for tuning your SQL queries to gain optimal performance.

[Expert Oracle RAC Performance Diagnostics and Tuning](#) Independently Published

Focused squarely on the language topics of special concern to DBAs, this text contains a quick tour of the PL/SQL language, extensive coverage of security topics, and methods for DBAs to improve query and database performance with cursors and table functions.

**Oracle Core: Essential Internals for DBAs and Developers** Pearson Education

The Ultimate Reference & Learning Guide for Oracle Database Professionals! Over 150 Interview Questions, Answers, and Explanations It's clear that Oracle is the future for enterprise information systems data storage and retrieval - but finding the right reference materials can be difficult. For the first time, over 150 Oracle Database Performance Tuning Certification Questions are here to guide your learning. From helping you to assess your Oracle Performance Tuning skills to evaluating candidates for a job, Oracle Database Performance Tuning Interview Questions will help you understand very quickly what you really need to know, and what you can safely ignore. The book is organized around Oracle Database Performance Tuning basics such as root cause analysis, database design, hit ratios, average latencies, and wait times. Each question includes everything you need to know to master an Oracle Performance Tuning interview or properly evaluate a candidate. More than just a rehash of Oracle documentation and sales presentations, each question is based on project knowledge and experience gained on successful high-profile Oracle implementations. Key certification and interview topics include: . Root cause analysis . Analysis of response time statistics . Queue theory and the basics of database performance . Hit ratios, Average latency, and wait time improvements

Best Sellers - Books :

- [Twisted Lies \(twisted, 4\) By Ana Huang](#)
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- [Goodnight Moon](#)
- [I Love You Like No Otter: A Funny And Sweet Board Book For Babies And Toddlers \(punderland\) By Rose Rossner](#)
- [A Court Of Mist And Fury \(a Court Of Thorns And Roses, 2\) By Sarah J. Maas](#)
- [Fahrenheit 451](#)
- [How To Catch A Mermaid By Adam Wallace](#)
- [A Court Of Mist And Fury \(a Court Of Thorns And Roses, 2\)](#)
- [The Summer I Turned Pretty \(summer I Turned Pretty, The\)](#)
- [Icebreaker: A Novel \(the Maple Hills Series\)](#)

**Oracle PL/SQL for DBAs** Apress

This book is an anthology of effective database management techniques representing the collective wisdom of the OakTable Network. With an emphasis upon performance—but also branching into security, national language, and other issues—the book helps you deliver the most value for your company's investment in Oracle Database technologies. You'll learn to effectively plan for and monitor performance, to troubleshoot systematically when things go wrong, and to manage your database rather than letting it manage you.

**Oracle High Performance Tuning for 9i and 10g** O'Reilly Media

Tom Kyte of Oracle Magazine's "Ask Tom" column has written the definitive guide to designing and building high-performance, scalable Oracle applications. The book covers schema design, SQL and PL/SQL, tables and indexes, and much more. From the exclusive publisher of Oracle Press books, this is a must-have resource for all Oracle developers and DBAs.

[SQL Server Execution Plans](#) Packt Publishing Ltd

Performance is one of the main issues that every administrator faces at one point or another. This book will help you to identify and mitigate it. The book starts with an introduction to Zabbix and the most common mistakes that are usually overlooked while deploying it. You will discover the importance of an impressive and easy-to-use front-end and how to develop one, along with comparisons between Apache, Nginx, and lighttpd web servers. Storage, as an important aspect of every deployment, is covered and you will be shown how to choose the right storage system for you and configure it to suit your deployment. Towards the end of the book, you will walk through the intricacies of the operating system; the final piece of the puzzle that holds all the components together. You will then dive into advanced topics including using a specific piece of hardware for each of the components, the Zabbix proxy, and firewall settings. By the end of the book, you will be able to tune your Zabbix implementation to achieve maximum performance.