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# Oracle 10g Data Warehousing Fundamentals Student Guide

**Oracle 10g Data Warehousing is a**

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**guide to using the Data Warehouse features in the latest version of Oracle —Oracle Database 10g. Written by people on the Oracle development team that designed and implemented the code and by people with industry experience**

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**implementing warehouses using Oracle technology, this thoroughly updated and extended edition provides an insider's view of how the Oracle Database 10g software is best used for your application. It provides a detailed look at the new**

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**features of Oracle Database 10g and other Oracle products and how these are used in the data warehouse. This book will show you how to deploy the Oracle database and correctly use the new Oracle Database 10g features for your data warehouse. It**

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**contains walkthroughs and examples on how to use tools such as Oracle Discoverer and Reports to query the warehouse and generate reports that can be deployed over the web and gain better insight into your business. This how-to guide provides**

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**This book provides comprehensive  
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**better understanding of relational data modeling, its purpose, its nature, and the standards used in creating relational data model. This is the first book to provide in-depth coverage of star schema aggregates used in dimensional**

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**modeling-from selection and design, to loading and usage, to specific tasks and deliverables for implementation projects Covers the principles of aggregate schema design and the pros and cons of various types of commercial solutions for navigating**

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information delivery, implementation, and maintenance. They'll also find a wealth of industry examples garnered from the author's 25 years of experience in designing and implementing databases and data warehouse applications for major corporations. Market: IT

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A cutting-edge response to Ralph Kimball's challenge to the data warehouse community that answers some tough questions about the effectiveness of the relational approach to data warehousing Written by one of the best-known exponents of

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the Bill Inmon approach to data warehousing Addresses head-on the tough issues raised by Kimball and explains how to choose the best modeling technique for solving common data warehouse design problems Weighs the pros and cons of relational vs. dimensional

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modeling techniques Focuses on tough modeling problems, including creating and maintaining keys and modeling calendars, hierarchies, transactions, and data quality Data warehouses and online analytical processing (OLAP) are emerging key technologies for enterprise decision

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support systems. They provide sophisticated technologies from data integration, data collection and retrieval, query optimization, and data analysis to advanced user interfaces. New research and technological achievements in the area of data warehousing are implemented in

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commercial database management systems, and organizations are developing data warehouse systems into their information system infrastructures. Data Warehouses and OLAP: Concepts, Architectures and Solutions covers a wide range of technical, technological, and research

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issues. It provides theoretical frameworks, presents challenges and their possible solutions, and examines the latest empirical research findings in the area. It is a resource of possible solutions and technologies that can be applied when designing, implementing, and deploying a data warehouse, and

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assists in the dissemination of knowledge in this field.

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Business Information Systems:  
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Data Warehouse Performance

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***warehousing projects at organizations of different sizes, from small to large-size corporations. Due to its simplified design, which is adapted from nature, the Data Vault 2.0 standard helps prevent typical data warehousing failures. "Building a***

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***Scalable Data Warehouse" covers everything one needs to know to create a scalable data warehouse end to end, including a presentation of the Data Vault modeling technique, which provides the foundations to create a technical data warehouse layer. The book***

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***discusses how to build the data warehouse incrementally using the agile Data Vault 2.0 methodology. In addition, readers will learn how to create the input layer (the stage layer) and the presentation layer (data mart) of the Data Vault 2.0 architecture including***

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***implementation best practices. Drawing upon years of practical experience and using numerous examples and an easy to understand framework, Dan Linstedt and Michael Olschimke discuss: How to load each layer using SQL Server Integration***

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Building the Data Warehouse***

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This old edition was published in 2002. The current and final edition of this book is The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling, 3rd Edition which was published in 2013 under ISBN: 9781118530801. The authors begin with fundamental design recommendations and gradually progress step-by-step through

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increasingly complex scenarios. Clear-cut guidelines for designing dimensional models are illustrated using real-world data warehouse case studies drawn from a variety of business application areas and industries, including: Retail sales and e-commerce  
Inventory management Procurement Order management Customer relationship

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management (CRM) Human resources  
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By the end of the book, you will have  
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techniques for designing dimensional  
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warehouse performance challenges  
Uncovering initiatives by your business  
community, security business sponsorship,  
project staffing, and managing risk  
With this textbook, Vaisman and  
Zimányi deliver excellent coverage of  
data warehousing and business intelligence  
technologies ranging from the most basic

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principles to recent findings and applications. To this end, their work is structured into three parts. Part I describes “ Fundamental Concepts ” including conceptual and logical data warehouse design, as well as querying using MDX, DAX and SQL/OLAP. This part also covers data analytics using Power BI and

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Analysis Services. Part II details

“ Implementation and Deployment, ” including physical design, ETL and data warehouse design methodologies. Part III covers “ Advanced Topics ” and it is almost completely new in this second edition. This part includes chapters with an in-depth coverage of temporal, spatial,

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and mobility data warehousing. Graph data warehouses are also covered in detail using Neo4j. The last chapter extensively studies big data management and the usage of Hadoop, Spark, distributed, in-memory, columnar, NoSQL and NewSQL database systems, and data lakes in the context of analytical data

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processing. As a key characteristic of the book, most of the topics are presented and illustrated using application tools.

Specifically, a case study based on the well-known Northwind database illustrates how the concepts presented in the book can be implemented using Microsoft Analysis Services and Power BI. All chapters have

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been revised and updated to the latest versions of the software tools used. KPIs and Dashboards are now also developed using DAX and Power BI, and the chapter on ETL has been expanded with the implementation of ETL processes in PostgreSQL. Review questions and exercises complement each chapter to

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support comprehensive student learning. Supplemental material to assist instructors using this book as a course text is available online and includes electronic versions of the figures, solutions to all exercises, and a set of slides accompanying each chapter. Overall, students, practitioners and researchers alike will find this book the

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most comprehensive reference work on data warehouses, with key topics described in a clear and educational style. “ I can only invite you to dive into the contents of the book, feeling certain that once you have completed its reading (or maybe, targeted parts of it), you will join me in expressing our gratitude to Alejandro and

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Esteban, for providing such a comprehensive textbook for the field of data warehousing in the first place, and for keeping it up to date with the recent developments, in this current second edition. ” From the foreword by Panos Vassiliadis, University of Ioannina, Greece.

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"This book is the definitive guide for serious Oracle8i professionals and is

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Oracle8 Data Warehousing, Gary Dodge and Tim Gorman clearly explain everything you'll need to know to build and manage a large, high-performance data warehouse using Oracle8i. They provide a technical roadmap to the specific Oracle8 or Oracle8i features that are relevant to designing, building, tuning, and

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administering an Oracle data warehouse. After a brief review of the basic concepts, you'll find descriptions of the various hardware platforms to support the Oracle data warehouse. The authors then cover the Oracle features that can enhance a large data warehouse, the design considerations for a warehouse, and the

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steps necessary to load data into the warehouse. You'll also find out how to perform parallel operations using Oracle8 and Oracle8i to accomplish massive tasks more quickly. And you'll discover the specific features and techniques for implementing a distributed architecture. With this book, you'll learn how to: -

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Oracle Data Mining

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Concepts, Architectures, and Solutions  
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how users store, gather and leverage the information contained in their database systems. Oracle's data warehousing is going mainstream spurred by the increasing need to harvest information to provide

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strategic direction and growth for e-business. Many corporations consider data warehousing essential -from spreadsheet/financial data to high-level strategic data. Oracle8 Data Warehousing provides data

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warehouseers with the means to collect, analyze and act on information contained on their database system.

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associated with the ability to effectively analyze this data.

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data warehouse," and Ken Rudin, one of the leading experts on performance-the book describes the layers of a high-performance data warehouse environment and guides the reader through their implementation and

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Implementing platform  
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optimization techniques,  
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