

Data Warehouse Database Design Oracle University

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Explore the critical principles of data warehouse database design, leveraging insights often taught through Oracle University. This encompasses foundational concepts, effective schema design (like dimensional modeling), and best practices for building robust, scalable data warehousing solutions specifically tailored for Oracle environments to support advanced analytics and business intelligence.

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Data Warehouse Database Design Oracle University

Create Database design in Oracle SQL Developer Data Modeler - Create Database design in Oracle SQL Developer Data Modeler by IT TM 102,932 views 4 years ago 13 minutes, 57 seconds - ...

welcome to this tutorial where we are going to learn how to create a **database design**, in **Oracle**, sequel developer **data**, modeler.

Building an Oracle Modern Data Warehouse to accelerate innovation with data - Building an Oracle Modern Data Warehouse to accelerate innovation with data by Oracle Learning 416 views 8 months ago 4 minutes, 57 seconds - Leverage all your **data**, to innovate and drive business outcomes. With Javier de la Torre Medina, **Data**, Management Autonomous ...

What is a Data Warehouse - Explained with real life example | datawarehouse vs database (2020) - What is a Data Warehouse - Explained with real life example | datawarehouse vs database (2020) by IT k Funde 409,811 views 3 years ago 9 minutes, 37 seconds - What is a **Data Warehouse**, - Explained with real-life example | **datawarehouse**, vs **database**, (2020) **#datawarehouse**, **#dwh** ...

Database vs Data Warehouse vs Data Lake | What is the Difference? - Database vs Data Warehouse vs Data Lake | What is the Difference? by Alex The Analyst 638,453 views 1 year ago 5 minutes, 22 seconds - Database, vs **Data Warehouse**, vs Data Lake | Today we take a look at these 3 different ways to store data and the differences ...

Introduction to Data Warehouse ~~with~~ Examples - Introduction to Data Warehouse ~~with~~ Examples by Gate Smashers 154,422 views 7 months ago 5 minutes, 42 seconds - Subscribe to our new channel: <https://www.youtube.com/@varunainashots> Link for DBMS Notes: File 1: <https://rb.gy/8g186> ...

Introduction to Data Warehouse (Data Architecture | Data Warehouse) - Introduction to Data Warehouse (Data Architecture | Data Warehouse) by Software Architecture Academy 42,044 views 2 years ago 8 minutes, 39 seconds - We will learn about **Data Warehousing**, with a generic architecture and various processes it involves. We will also cover benefits, ...

Intro

What is a Data Warehouse? It's a system that

Data Warehouse Architecture

So, What's Data Warehousing?

To Datawarehouse or not?

What's next for Data Warehousing?

IBM Data Analyst Complete Course | Data Analyst Tutorial For Beginners, - IBM Data Analyst Complete Course | Data Analyst Tutorial For Beginners, by My Lesson 1,613,441 views 1 year ago 15 hours - Build job-ready skills by learning from the best Get started in the in-demand field of **data**, analytics with a Professional Certificate ...

Data Warehouse vs Data Lake vs Data Lakehouse - Data Warehouse vs Data Lake vs Data Lakehouse by Jesper Lowgren 33,322 views 9 months ago 9 minutes, 32 seconds - New technologies like the **Data**, Lakehouse is fuelling the AI revolution well beyond ChatGPT. It provides organisations with the ...

Intro

Data Life Cycle

Data Types

Structured Data

Unstructured Data

Unstructured Data Examples

Data Warehouse

Data Lake vendors

Data Lakehouse

Data Lakehouse Features

Ikea Comparison

3 most common data modeling interview questions - 3 most common data modeling interview questions by Pritha Chakraborty 10,056 views 11 months ago 7 minutes, 7 seconds - ... many-to-many relationship now uh when you are modeling a **data model**, many too many relationships are very difficult to work ...

Database Engineering Complete Course | DBMS Complete Course - Database Engineering Complete Course | DBMS Complete Course by Nerd's lesson 532,754 views 11 months ago 21 hours - In this program, you'll learn: Core techniques and methods to structure and manage **databases**,. Advanced techniques to write ...

[[3 HOURS]] Data Warehouse Complete Tutorial - SQL + SSIS + SSAS + Power BI - { End to End } - [[3 HOURS]] Data Warehouse Complete Tutorial - SQL + SSIS + SSAS + Power BI - { End to End } by Analytics with Nags 197,821 views 2 years ago 3 hours, 5 minutes - DATA WAREHOUSE, FULL COURSE ----- 0) 00:00 - Topics 1) 04:02 - Introduction 2) 12:00 - **Data Warehouse**, ...

0).Topics

1).Introduction

2).Data Warehouse Architecture

3).Data Warehouse Terminologies

4).Business Case Study

5).Data Warehouse Designing

6).Data Warehouse Implementation

7).SSIS

8).Surrogate Key

9).Slowly Changing Dimension

10).Adding data to Dimension and Incremental Load

11).Deploy SSIS Package and SQL Agent Schedule

12).SSAS Tabular Model

13).Creating Power BI Reports

SQL Tutorial - Full Database Course for Beginners - SQL Tutorial - Full Database Course for Beginners by freeCodeCamp.org 17,560,370 views 5 years ago 4 hours, 20 minutes - The course is **designed**, for beginners to SQL and **database**, management systems, and will introduce common **database**, ...

Introduction

What is a Database?

Tables & Keys

SQL Basics

MySQL Windows Installation

MySQL Mac Installation

Creating Tables
Inserting Data
Constraints
Update & Delete
Basic Queries
Company Database Intro
Creating Company Database
More Basic Queries
Wildcards
Union
Joins
Nested Queries
On Delete
Triggers
ER Diagrams Intro
Designing an ER Diagram
Converting ER Diagrams to Schemas
How to become a Data Architect (Career in Architecture) - How to become a Data Architect (Career in Architecture) by Software Architecture Academy 19,964 views 1 year ago 9 minutes, 15 seconds
- Focus on only two topics: 1. Career Pathway. 2. **Data**, Subject expertise required. Related: **Data**, Architecture Interview Series: 1.
Possible Career Pathways
Years of Experience Requirements
Data Modeling
Analytics
Big Data Engineering and Cloud Engineering
Data Lake Architecture - Data Lake Architecture by Software Architecture Academy 35,067 views 1 year ago 6 minutes, 11 seconds - We will discuss a generic reference **Data**, Lake Architecture in 2 steps 1) Layers or Zones 2) Possible **data**, flows. We will also ...
What Is a Data Lake
Trusted Zone
Data Flows
Refined Zone
Introduction to Oracle Database|| Oracle Database Architecture||Oracle Database Administration - Introduction to Oracle Database|| Oracle Database Architecture||Oracle Database Administration by Learners and Facilitators 10,221 views 1 year ago 19 minutes - Introduction to **Oracle Database**,|| **Oracle Database**, Architecture||**Oracle Database**, Administration This video is all about the ...
Building a Data Warehouse from the Ground Up - Building a Data Warehouse from the Ground Up by South Florida Data Geeks 7,197 views 2 years ago 1 hour, 20 minutes - Building a **Data Warehouse**, from the Ground Up What if you could approach any business process in your organization and ...
What is a Data Warehouse? - What is a Data Warehouse? by Oracle Cloud Infrastructure 712 views 2 years ago 1 minute, 12 seconds - You're probably wondering: What is a **Data Warehouse**,? A **data warehouse**, centralizes and consolidates large amounts of data ...
Designing Your Data Warehouse from the Ground Up - Designing Your Data Warehouse from the Ground Up by Pragmatic Works 144,145 views 5 years ago 1 hour, 1 minute - Pragmatic Works 7175 Hwy 17, Suite 2 Fleming Island, FL 32003 Phone: (904) 638-5743 Email: **training**,@pragmaticworks.com.
optimize for high performance queries
add a database key for the table
joining our fact tables and our dimensions on single integer columns
filling out your dimensional model
identify the measures
Oracle Autonomous Data Warehouse—Technical Deep Dive - Oracle Autonomous Data Warehouse—Technical Deep Dive by Oracle 4,541 views 4 years ago 10 minutes, 7 seconds - Oracle, Autonomous **Data Warehouse**, is a superior **database**, offering auto performance tuning and security. Our complete data ...
Intro
Overview
Data Scientist

Machine Learning
Application Development
Demo
Summary

Database vs Data Warehouse - Database vs Data Warehouse by intricity101 143,659 views 5 years ago 2 minutes, 11 seconds - What's the difference between a **Database**, and a **Data Warehouse**,? I had an attendee ask this question at one of our workshops.

How to build a cloud data mart in 20 minutes | Oracle Database World - How to build a cloud data mart in 20 minutes | Oracle Database World by Oracle 1,969 views 1 year ago 19 minutes - View the full event: <https://oracle.com/databaseworld> It used to take weeks to build a **data**, mart, but in the modern world you need ...

Intro
Five step process
Demo

Load or link data
Transform data
Analyze data
Review

Oracle Autonomous Data Warehouse – How It Works - Oracle Autonomous Data Warehouse – How It Works by Oracle 23,652 views 6 years ago 15 minutes - VP of Product Management, George Lumpkin, examines common customer challenges with traditional **data warehouse**, ...

Intro
Introducing: Autonomous Data Warehouse Cloud
Automated vs. Autonomous
Automated Tuning

Supported by a rich Data Warehouse Ecosystem
Oracle Autonomous Data Warehouse and data lakes | CloudWorld 2022 - Oracle Autonomous Data Warehouse and data lakes | CloudWorld 2022 by Oracle 1,058 views 1 year ago 23 minutes - Learn how to easily combine insights from data lakes and the **Oracle**, Autonomous **Data Warehouse**,. Use **Oracle**, Cloud ...

What is a Data Lake?
Combine Insights from Data Lake and Data Warehouse
Typical Use Cases

Oracle@Oracle: Data warehouse, Autonomous Database, and more with OCI - Oracle@Oracle: Data warehouse, Autonomous Database, and more with OCI by Oracle 598 views 2 years ago 6 minutes, 33 seconds - Kishan Agrawal, group vice president, **Oracle**, Applications Labs, provides key insight into how we use and benefit from **Oracle**, ...

Introduction
Oracle at Oracle
Autonomous Database
Data warehouse
Data lake

Outro
KNOW the difference between Data Base // Data Warehouse // Data Lake (Easy Explanation) - KNOW the difference between Data Base // Data Warehouse // Data Lake (Easy Explanation) by Chandoo 477,868 views 2 years ago 8 minutes, 10 seconds - Confusing your data lakes with actual lakes? Not sure how much land you need for the **data warehouse**,? You have come to the ...

Intro & Databases
Data warehouse
Why can't we use DB for reporting?
ETL, how data goes from DB to DWH
What is a Data Lake?
Examples of DB, DWH & DL
How to access data in DB, DWH & DL?

Oracle Autonomous Data Warehouse in 3 Minutes - Oracle Autonomous Data Warehouse in 3 Minutes by Carlos Thomas 531 views 3 years ago 3 minutes, 1 second - How to explain **Oracle**, Autonomous **Data Warehouse**, in 3 minutes to someone that has never heard about it before? Click and ...

Loading data into Autonomous Data Warehouse using SQL Developer - Loading data into Au-

Autonomous Data Warehouse using SQL Developer by Oracle Database Upgrades and Migrations
1,125 views 3 years ago 3 minutes, 55 seconds - Uploading data from CSV files to **Oracle**,
Autonomous **Data Warehouse**, is very easy using SQL Developer. This video describes ...

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Agile Data Warehouse Design

Agile Data Warehouse Design is a step-by-step guide for capturing data warehousing/business intelligence (DW/BI) requirements and turning them into high performance dimensional models in the most direct way: by modelstorming (data modeling + brainstorming) with BI stakeholders. This book describes BEAM2, an agile approach to dimensional modeling, for improving communication between data warehouse designers, BI stakeholders and the whole DW/BI development team. BEAM2 provides tools and techniques that will encourage DW/BI designers and developers to move away from their keyboards and entity relationship based tools and model interactively with their colleagues. The result is everyone thinks dimensionally from the outset! Developers understand how to efficiently implement dimensional modeling solutions. Business stakeholders feel ownership of the data warehouse they have created, and can already imagine how they will use it to answer their business questions. Within this book, you will learn: 2 Agile dimensional modeling using Business Event Analysis & Modeling (BEAM2) 2 Modelstorming: data modeling that is quicker, more inclusive, more productive, and frankly more fun! 2 Telling dimensional data stories using the 7Ws (who, what, when, where, how many, why and how) 2 Modeling by example not abstraction; using data story themes, not crow's feet, to describe detail 2 Storyboarding the data warehouse to discover conformed dimensions and plan iterative development 2 Visual modeling: sketching timelines, charts and grids to model complex process measurement - simply 2 Agile design documentation: enhancing star schemas with BEAM2 dimensional shorthand notation 2 Solving difficult DW/BI performance and usability problems with proven dimensional design patterns Lawrence Corr is a data warehouse designer and educator. As Principal of DecisionOne Consulting, he helps clients to review and simplify their data warehouse designs, and advises vendors on visual data modeling techniques. He regularly teaches agile dimensional modeling courses worldwide and has taught dimensional DW/BI skills to thousands of students. Jim Stagnitto is a data warehouse and master data management architect specializing in the healthcare, financial services, and information service industries. He is the founder of the data warehousing and data mining consulting firm Llumino.

Mastering Data Warehouse Design

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 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 modeling techniques Focuses on tough modeling problems, including creating and maintaining keys and modeling calendars, hierarchies, transactions, and data quality

Building the Data Warehouse

The data warehousing bible updated for the new millennium Updated and expanded to reflect the many technological advances occurring since the previous edition, this latest edition of the data warehousing "bible" provides a comprehensive introduction to building data marts, operational data stores, the Corporate Information Factory, exploration warehouses, and Web-enabled warehouses. Written by the father of the data warehouse concept, the book also reviews the unique requirements for supporting e-business and explores various ways in which the traditional data warehouse can be integrated with new technologies to provide enhanced customer service, sales, and support-both online and offline-including near-line data storage techniques.

The Data Warehouse Toolkit

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 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 management (CRM) Human resources management Accounting Financial services Telecommunications and utilities Education Transportation Health care and insurance By the end of the book, you will have mastered the full range of powerful techniques for designing dimensional databases that are easy to understand and provide fast query response. You will also learn how to create an architected framework that integrates the distributed data warehouse using standardized dimensions and facts.

Agile Analytics

Using Agile methods, you can bring far greater innovation, value, and quality to any data warehousing (DW), business intelligence (BI), or analytics project. However, conventional Agile methods must be carefully adapted to address the unique characteristics of DW/BI projects. In *Agile Analytics*, Agile pioneer Ken Collier shows how to do just that. Collier introduces platform-agnostic Agile solutions for integrating infrastructures consisting of diverse operational, legacy, and specialty systems that mix commercial and custom code. Using working examples, he shows how to manage analytics development teams with widely diverse skill sets and how to support enormous and fast-growing data volumes. Collier's techniques offer optimal value whether your projects involve "back-end" data management, "front-end" business analysis, or both. Part I focuses on Agile project management techniques and delivery team coordination, introducing core practices that shape the way your Agile DW/BI project community can collaborate toward success Part II presents technical methods for enabling continuous delivery of business value at production-quality levels, including evolving superior designs; test-driven DW development; version control; and project automation Collier brings together proven solutions you can apply right now--whether you're an IT decision-maker, data warehouse professional, database administrator, business intelligence specialist, or database developer. With his help, you can mitigate project risk, improve business alignment, achieve better results--and have fun along the way.

Agile Data Warehousing Project Management

You have to make sense of enormous amounts of data, and while the notion of "agile data warehousing might sound tricky, it can yield as much as a 3-to-1 speed advantage while cutting project costs in half. Bring this highly effective technique to your organization with the wisdom of agile data warehousing expert Ralph Hughes. *Agile Data Warehousing Project Management* will give you a thorough introduction to the method as you would practice it in the project room to build a serious "data mart. Regardless of where you are today, this step-by-step implementation guide will prepare you to join or even lead a team in visualizing, building, and validating a single component to an enterprise data warehouse. Provides a thorough grounding on the mechanics of Scrum as well as practical advice on keeping your team on track Includes strategies for getting accurate and actionable requirements from a team's business partner Revolutionary estimating techniques that make forecasting labor far more understandable and accurate Demonstrates a blends of Agile methods to simplify team management and synchronize inputs across IT specialties Enables you and your teams to start simple and progress steadily to world-class performance levels

Data Warehouse Design Solutions

"Each chapter is... a practice run for the way we all ought to design our data marts and hence our data warehouses."-Ralph Kimball, from the Foreword. Let the experts show you how to customize data warehouse designs for real business needs in *Data Warehouse Design Solutions*. To effectively design a data warehouse, you have to understand its many business uses. This guidebook shows you how business managers in different corporate functions actually use data warehouses to make decisions. You'll get a rich set of data warehouse designs that flow from realistic business cases. Two top experts show you how to customize your data warehouse designs for real-life business needs including: * Sales and marketing * Production and inventory management * Budgeting and financial reporting * Quality control * Product delivery and fulfillment * Strategic business analysis such as determining market

share, rates of return on investment, and other key analytic ratios. CD-ROM includes All sample data warehouse designs with accompanying preformatted reports in HTML for specific business uses such as marketing, sales, and financial analysis.

Building a Scalable Data Warehouse with Data Vault 2.0

The Data Vault was invented by Dan Linstedt at the U.S. Department of Defense, and the standard has been successfully applied to data 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 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 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 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 Services (SSIS), including automation of the Data Vault loading processes. Important data warehouse technologies and practices. Data Quality Services (DQS) and Master Data Services (MDS) in the context of the Data Vault architecture. Provides a complete introduction to data warehousing, applications, and the business context so readers can get-up and running fast Explains theoretical concepts and provides hands-on instruction on how to build and implement a data warehouse Demystifies data vault modeling with beginning, intermediate, and advanced techniques Discusses the advantages of the data vault approach over other techniques, also including the latest updates to Data Vault 2.0 and multiple improvements to Data Vault 1.0

Kimball's Data Warehouse Toolkit Classics, 3 Volume Set

Three books by the bestselling authors on Data Warehousing! The most authoritative guides from the inventor of the technique all for a value price. The Data Warehouse Toolkit, 3rd Edition (9781118530801) Ralph Kimball invented a data warehousing technique called "dimensional modeling" and popularized it in his first Wiley book, The Data Warehouse Toolkit. Since this book was first published in 1996, dimensional modeling has become the most widely accepted technique for data warehouse design. Over the past 10 years, Kimball has improved on his earlier techniques and created many new ones. In this 3rd edition, he will provide a comprehensive collection of all of these techniques, from basic to advanced. The Data Warehouse Lifecycle Toolkit, 2nd Edition (9780470149775) Complete coverage of best practices from data warehouse project inception through on-going program management. Updates industry best practices to be in sync with current recommendations of Kimball Group. Streamlines the lifecycle methodology to be more efficient and user-friendly The Data Warehouse ETL Toolkit (9780764567575) shows data warehouse developers how to effectively manage the ETL (Extract, Transform, Load) phase of the data warehouse development lifecycle. The authors show developers the best methods for extracting data from scattered sources throughout the enterprise, removing obsolete, redundant, and inaccurate data, transforming the remaining data into correctly formatted data structures, and then physically loading them into the data warehouse. This book provides complete coverage of proven, time-saving ETL techniques. It begins with a quick overview of ETL fundamentals and the role of the ETL development team. It then quickly moves into an overview of the ETL data structures, both relational and dimensional. The authors show how to build useful dimensional structures, providing practical examples of beginning through advanced techniques.

Agile Data Warehousing for the Enterprise

Building upon his earlier book that detailed agile data warehousing programming techniques for the Scrum master, Ralph's latest work illustrates the agile interpretations of the remaining software engineering disciplines: Requirements management benefits from streamlined templates that not only define projects quickly, but ensure nothing essential is overlooked. Data engineering receives two new "hyper modeling" techniques, yielding data warehouses that can be easily adapted when requirements change without having to invest in ruinously expensive data-conversion programs. Quality assurance advances with not only a stereoscopic top-down and bottom-up planning method, but also the incorporation of the latest in automated test engines. Use this step-by-step guide to deepen your own application development skills through self-study, show your teammates the world's fastest and

most reliable techniques for creating business intelligence systems, or ensure that the IT department working for you is building your next decision support system the right way. Learn how to quickly define scope and architecture before programming starts Includes techniques of process and data engineering that enable iterative and incremental delivery Demonstrates how to plan and execute quality assurance plans and includes a guide to continuous integration and automated regression testing Presents program management strategies for coordinating multiple agile data mart projects so that over time an enterprise data warehouse emerges Use the provided 120-day road map to establish a robust, agile data warehousing program

The Unified Star Schema

Master the most agile and resilient design for building analytics applications: the Unified Star Schema (USS) approach. The USS has many benefits over traditional dimensional modeling. Witness the power of the USS as a single star schema that serves as a foundation for all present and future business requirements of your organization.

The Kimball Group Reader

The final edition of the incomparable data warehousing and business intelligence reference, updated and expanded The Kimball Group Reader, Remastered Collection is the essential reference for data warehouse and business intelligence design, packed with best practices, design tips, and valuable insight from industry pioneer Ralph Kimball and the Kimball Group. This Remastered Collection represents decades of expert advice and mentoring in data warehousing and business intelligence, and is the final work to be published by the Kimball Group. Organized for quick navigation and easy reference, this book contains nearly 20 years of experience on more than 300 topics, all fully up-to-date and expanded with 65 new articles. The discussion covers the complete data warehouse/business intelligence lifecycle, including project planning, requirements gathering, system architecture, dimensional modeling, ETL, and business intelligence analytics, with each group of articles prefaced by original commentaries explaining their role in the overall Kimball Group methodology. Data warehousing/business intelligence industry's current multi-billion dollar value is due in no small part to the contributions of Ralph Kimball and the Kimball Group. Their publications are the standards on which the industry is built, and nearly all data warehouse hardware and software vendors have adopted their methods in one form or another. This book is a compendium of Kimball Group expertise, and an essential reference for anyone in the field. Learn data warehousing and business intelligence from the field's pioneers Get up to date on best practices and essential design tips Gain valuable knowledge on every stage of the project lifecycle Dig into the Kimball Group methodology with hands-on guidance Ralph Kimball and the Kimball Group have continued to refine their methods and techniques based on thousands of hours of consulting and training. This Remastered Collection of The Kimball Group Reader represents their final body of knowledge, and is nothing less than a vital reference for anyone involved in the field.

Agile Data Warehousing

Contains a six-stage plan for starting new warehouse projects and guiding programmers step-by-step until they become a world-class, Agile development team. It describes also how to avoid or contain the fierce opposition that radically new methods can encounter from the traditionally-minded IS departments found in many large companies.

Managing Data in Motion

Managing Data in Motion describes techniques that have been developed for significantly reducing the complexity of managing system interfaces and enabling scalable architectures. Author April Reeve brings over two decades of experience to present a vendor-neutral approach to moving data between computing environments and systems. Readers will learn the techniques, technologies, and best practices for managing the passage of data between computer systems and integrating disparate data together in an enterprise environment. The average enterprise's computing environment is comprised of hundreds to thousands computer systems that have been built, purchased, and acquired over time. The data from these various systems needs to be integrated for reporting and analysis, shared for business transaction processing, and converted from one format to another when old systems are replaced and new systems are acquired. The management of the "data in motion" in organizations is rapidly becoming one of the biggest concerns for business and IT management. Data warehousing and conversion, real-time data integration, and cloud and "big data" applications are just a few of

the challenges facing organizations and businesses today. Managing Data in Motion tackles these and other topics in a style easily understood by business and IT managers as well as programmers and architects. Presents a vendor-neutral overview of the different technologies and techniques for moving data between computer systems including the emerging solutions for unstructured as well as structured data types Explains, in non-technical terms, the architecture and components required to perform data integration Describes how to reduce the complexity of managing system interfaces and enable a scalable data architecture that can handle the dimensions of "Big Data"

Agile Data Science

Mining big data requires a deep investment in people and time. How can you be sure you're building the right models? With this hands-on book, you'll learn a flexible toolset and methodology for building effective analytics applications with Hadoop. Using lightweight tools such as Python, Apache Pig, and the D3.js library, your team will create an agile environment for exploring data, starting with an example application to mine your own email inboxes. You'll learn an iterative approach that enables you to quickly change the kind of analysis you're doing, depending on what the data is telling you. All example code in this book is available as working Heroku apps. Create analytics applications by using the agile big data development methodology Build value from your data in a series of agile sprints, using the data-value stack Gain insight by using several data structures to extract multiple features from a single dataset Visualize data with charts, and expose different aspects through interactive reports Use historical data to predict the future, and translate predictions into action Get feedback from users after each sprint to keep your project on track

DW 2.0: The Architecture for the Next Generation of Data Warehousing

DW 2.0: The Architecture for the Next Generation of Data Warehousing is the first book on the new generation of data warehouse architecture, DW 2.0, by the father of the data warehouse. The book describes the future of data warehousing that is technologically possible today, at both an architectural level and technology level. The perspective of the book is from the top down: looking at the overall architecture and then delving into the issues underlying the components. This allows people who are building or using a data warehouse to see what lies ahead and determine what new technology to buy, how to plan extensions to the data warehouse, what can be salvaged from the current system, and how to justify the expense at the most practical level. This book gives experienced data warehouse professionals everything they need in order to implement the new generation DW 2.0. It is designed for professionals in the IT organization, including data architects, DBAs, systems design and development professionals, as well as data warehouse and knowledge management professionals. * First book on the new generation of data warehouse architecture, DW 2.0. * Written by the "father of the data warehouse"

Data Warehousing Fundamentals

Geared to IT professionals eager to get into the all-important field of data warehousing, this book explores all topics needed by those who design and implement data warehouses. Readers will learn about planning requirements, architecture, infrastructure, data preparation, 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 Professionals, Consultants.

The Data Model Toolkit

Adopting the latest technological and data related innovations has caused many organisations to realise they don't have a firm grasp on their basic operational data. This is a problem that Logical Data Models are uniquely qualified to help them solve. The realisation of the need to define a Logical Data Model may be driven by any number of reasons including; trying to link Big Data Analytics to operational data, plunging into Digital Marketing, choosing the best SaaS solution, carrying out a core Data Migration, developing a Data Warehouse, enhancing Data Governance processes, or even just trying to get everyone to agree on their Product specifications! This book will provide you with the skills required to start to answer these and many similar types of questions. It is not written with a focus on IT development, so you don't need a technical background to get the most from it. But for any professional working in an organisation's data landscape, this book will provide the skills they need to define high quality and beneficial data models quickly and easily. It does this using a wealth of practical

examples, tips and techniques, as well as providing checklists and templates. It is structured into three parts: The Foundations: What are the solid foundations necessary for building effective data models? The Tools: What Tools are required to enable you to specify clear, precise and accurate data model definitions? The Deliverables: What processes will you need to successfully define the models, what will they deliver, and how can we make them beneficial to the organisation? "In this data-rich era, it is even more critical for organisations to answer the question of what their data means and the value it can bring. Those who can, will gain a competitive advantage through their use of data to streamline their operations and energise their strategies. Core to revealing this meaning, is the data model that is now, more than ever, the lynchpin of success. The Data Model Toolkit provides the essential knowledge and skills that will ensure this success." – Reem Zahran, Global IT Platform Director, TNS "We work with many enterprise customers to help them transform their technology and it always starts with data. The key is a clear definition of their data quality, completeness and governance. This book shows you step by step how to define and use Data Models as powerful tools to define an organisation's data and maximise its business benefit." – John Casserly, CEO, Xceed Group

The Enterprise Big Data Lake

The data lake is a daring new approach for harnessing the power of big data technology and providing convenient self-service capabilities. But is it right for your company? This book is based on discussions with practitioners and executives from more than a hundred organizations, ranging from data-driven companies such as Google, LinkedIn, and Facebook, to governments and traditional corporate enterprises. You'll learn what a data lake is, why enterprises need one, and how to build one successfully with the best practices in this book. Alex Gorelik, CTO and founder of Waterline Data, explains why old systems and processes can no longer support data needs in the enterprise. Then, in a collection of essays about data lake implementation, you'll examine data lake initiatives, analytic projects, experiences, and best practices from data experts working in various industries. Get a succinct introduction to data warehousing, big data, and data science Learn various paths enterprises take to build a data lake Explore how to build a self-service model and best practices for providing analysts access to the data Use different methods for architecting your data lake Discover ways to implement a data lake from experts in different industries

An Introduction to Agile Data Engineering Using Data Vault 2.0

The world of data warehousing is changing. Big Data & Agile are hot topics. But companies still need to collect, report, and analyze their data. Usually this requires some form of data warehousing or business intelligence system. So how do we do that in the modern IT landscape in a way that allows us to be agile and either deal directly or indirectly with unstructured and semi structured data?The Data Vault System of Business Intelligence provides a method and approach to modeling your enterprise data warehouse (EDW) that is agile, flexible, and scalable. This book will give you a short introduction to Agile Data Engineering for Data Warehousing and Data Vault 2.0. I will explain why you should be trying to become Agile, some of the history and rationale for Data Vault 2.0, and then show you the basics for how to build a data warehouse model using the Data Vault 2.0 standards.In addition, I will cover some details about the Business Data Vault (what it is) and then how to build a virtual Information Mart off your Data Vault and Business Vault using the Data Vault 2.0 architecture.So if you want to start learning about Agile Data Engineering with Data Vault 2.0, this book is for you.

The Data Warehouse Lifecycle Toolkit

A thorough update to the industry standard for designing, developing, and deploying data warehouse and business intelligence systems The world of data warehousing has changed remarkably since the first edition of The Data Warehouse Lifecycle Toolkit was published in 1998. In that time, the data warehouse industry has reached full maturity and acceptance, hardware and software have made staggering advances, and the techniques promoted in the premiere edition of this book have been adopted by nearly all data warehouse vendors and practitioners. In addition, the term "business intelligence" emerged to reflect the mission of the data warehouse: wrangling the data out of source systems, cleaning it, and delivering it to add value to the business. Ralph Kimball and his colleagues have refined the original set of Lifecycle methods and techniques based on their consulting and training experience. The authors understand first-hand that a data warehousing/business intelligence (DW/BI) system needs to change as fast as its surrounding organization evolves. To that end, they walk you through the detailed steps of designing, developing, and deploying a DW/BI system. You'll learn to

create adaptable systems that deliver data and analyses to business users so they can make better business decisions.

The Nimble Elephant

“Get it done well and get it done fast” are twin, apparently opposing, demands. Data architects are increasingly expected to deliver quality data models in challenging timeframes, and agile developers are increasingly expected to ensure that their solutions can be easily integrated with the data assets of the overall organization. If you need to deliver quality solutions despite exacting schedules, “The Nimble Elephant” will help by describing proven techniques that leverage the libraries of published data model patterns to rapidly assemble extensible and robust designs. The three sections in the book provide guidelines for applying the lessons to your own situation, so that you can apply the techniques and patterns immediately to your current assignments. The first section, Foundations for Data Agility, addresses some perceived aspects of friction between “data” and “agile” practitioners. As a starting point for resolving the differences, pattern levels of granularity are classified, and their interdependencies exposed. A context of various types of models is established (e.g. conceptual / logical / physical, and industry / enterprise / project), and you will learn how to customize patterns within specific model types. The second section, Steps Towards Data Agility, shares guidelines on generalizing and specializing, with cautions on the dangers of going too far. Creativity in using patterns beyond their intended purpose is encouraged. The short-term “You Ain’t Gonna Need It” (YAGNI) philosophy of agile practitioners, and the longer-term strategic perspectives of architects, are compared and evaluated. Consideration is given to the potential of enterprise views contributing to project-specific models. Other topics include industry models, iterative modeling, creation of patterns when none exist, and patterns for rules-in-data. The section ends with a perspective on the modeler’s possible role in agile projects, followed by a case study. The final section, A Bridge to the Land of Object Orientation, provides a pathway for re-skilling traditional data modelers who want to expand their options by actively engaging with the ranks of object-oriented developers. I’m delighted to see that John has put his extensive experience and broad knowledge of data modeling into print! John’s ability to simplify the complex, and to share his knowledge and enthusiasm – and humor – with colleagues, comes through in this very useful and readable book. I recommend it to anyone working with data. — Monika Remenyi, Senior Data Architect, Telstra

John Giles has written a compelling and engaging book about the importance of data modeling patterns in the world of agile computing. His book is clearly and simply written, and it is full of excellent examples drawn from his extensive experience as a practitioner. You will see the enthusiasm and passion that John clearly has for his work in data modeling. And you will see in his book that any interchange with John will always have its fair share of good humor and wisdom! — Professor Ron Weber, Dean, Faculty of IT, Monash University

Snowflake Cookbook

Develop modern solutions with Snowflake's unique architecture and integration capabilities; process bulk and real-time data into a data lake; and leverage time travel, cloning, and data-sharing features to optimize data operations

Key Features

- Build and scale modern data solutions using the all-in-one Snowflake platform
- Perform advanced cloud analytics for implementing big data and data science solutions
- Make quicker and better-informed business decisions by uncovering key insights from your data

Book Description

Snowflake is a unique cloud-based data warehousing platform built from scratch to perform data management on the cloud. This book introduces you to Snowflake's unique architecture, which places it at the forefront of cloud data warehouses. You'll explore the compute model available with Snowflake, and find out how Snowflake allows extensive scaling through the virtual warehouses. You will then learn how to configure a virtual warehouse for optimizing cost and performance. Moving on, you'll get to grips with the data ecosystem and discover how Snowflake integrates with other technologies for staging and loading data. As you progress through the chapters, you will leverage Snowflake's capabilities to process a series of SQL statements using tasks to build data pipelines and find out how you can create modern data solutions and pipelines designed to provide high performance and scalability. You will also get to grips with creating role hierarchies, adding custom roles, and setting default roles for users before covering advanced topics such as data sharing, cloning, and performance optimization. By the end of this Snowflake book, you will be well-versed in Snowflake's architecture for building modern analytical solutions and understand best practices for solving commonly faced problems using practical recipes. What you will learn

- Get to grips with data warehousing techniques aligned with Snowflake's cloud architecture
- Broaden your skills as a data warehouse designer to cover the Snowflake ecosystem
- Transfer skills from on-premise data warehousing to the Snowflake cloud

analytics platform Optimize performance and costs associated with a Snowflake solution Stage data on object stores and load it into Snowflake Secure data and share it efficiently for access Manage transactions and extend Snowflake using stored procedures Extend cloud data applications using Spark Connector Who this book is for This book is for data warehouse developers, data analysts, database administrators, and anyone involved in designing, implementing, and optimizing a Snowflake data warehouse. Knowledge of data warehousing and database and cloud concepts will be useful. Basic familiarity with Snowflake is beneficial, but not necessary.

Agile Database Techniques

Describes Agile Modeling Driven Design (AMDD) and Test-Driven Design (TDD) approaches, database refactoring, database encapsulation strategies, and tools that support evolutionary techniques Agile software developers often use object and relational database (RDB) technology together and as a result must overcome the impedance mismatch The author covers techniques for mapping objects to RDBs and for implementing concurrency control, referential integrity, shared business logic, security access control, reports, and XML An agile foundation describes fundamental skills that all agile software developers require, particularly Agile DBAs Includes object modeling, UML data modeling, data normalization, class normalization, and how to deal with legacy databases Scott W. Ambler is author of Agile Modeling (0471202827), a contributing editor with Software Development (www.sd-magazine.com), and a featured speaker at software conferences worldwide

Big Data

Summary Big Data teaches you to build big data systems using an architecture that takes advantage of clustered hardware along with new tools designed specifically to capture and analyze web-scale data. It describes a scalable, easy-to-understand approach to big data systems that can be built and run by a small team. Following a realistic example, this book guides readers through the theory of big data systems, how to implement them in practice, and how to deploy and operate them once they're built. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book Web-scale applications like social networks, real-time analytics, or e-commerce sites deal with a lot of data, whose volume and velocity exceed the limits of traditional database systems. These applications require architectures built around clusters of machines to store and process data of any size, or speed. Fortunately, scale and simplicity are not mutually exclusive. Big Data teaches you to build big data systems using an architecture designed specifically to capture and analyze web-scale data. This book presents the Lambda Architecture, a scalable, easy-to-understand approach that can be built and run by a small team. You'll explore the theory of big data systems and how to implement them in practice. In addition to discovering a general framework for processing big data, you'll learn specific technologies like Hadoop, Storm, and NoSQL databases. This book requires no previous exposure to large-scale data analysis or NoSQL tools. Familiarity with traditional databases is helpful. What's Inside Introduction to big data systems Real-time processing of web-scale data Tools like Hadoop, Cassandra, and Storm Extensions to traditional database skills About the Authors Nathan Marz is the creator of Apache Storm and the originator of the Lambda Architecture for big data systems. James Warren is an analytics architect with a background in machine learning and scientific computing. Table of Contents A new paradigm for Big Data PART 1 BATCH LAYER Data model for Big Data Data model for Big Data: Illustration Data storage on the batch layer Data storage on the batch layer: Illustration Batch layer Batch layer: Illustration An example batch layer: Architecture and algorithms An example batch layer: Implementation PART 2 SERVING LAYER Serving layer Serving layer: Illustration PART 3 SPEED LAYER Realtime views Realtime views: Illustration Queuing and stream processing Queuing and stream processing: Illustration Micro-batch stream processing Micro-batch stream processing: Illustration Lambda Architecture in depth

Google BigQuery: The Definitive Guide

Work with petabyte-scale datasets while building a collaborative, agile workplace in the process. This practical book is the canonical reference to Google BigQuery, the query engine that lets you conduct interactive analysis of large datasets. BigQuery enables enterprises to efficiently store, query, ingest, and learn from their data in a convenient framework. With this book, you'll examine how to analyze data at scale to derive insights from large datasets efficiently. Valliappa Lakshmanan, tech lead for Google Cloud Platform, and Jordan Tigani, engineering director for the BigQuery team, provide best practices for modern data warehousing within an autoscaled, serverless public cloud. Whether you want

to explore parts of BigQuery you're not familiar with or prefer to focus on specific tasks, this reference is indispensable.

Modeling the Agile Data Warehouse with Data Vault

Data Modeling for Agile Data Warehouse using Data Vault Modeling Approach. Includes Enterprise Data Warehouse Architecture. This is a complete guide to the data vault data modeling approach. The book also includes business and program considerations for the agile data warehousing and business intelligence program. There are over 200 diagrams and figures concerning modeling, core business concepts, architecture, business alignment, semantics, and modeling comparisons with 3NF and Dimensional modeling.

Data Mesh

We're at an inflection point in data, where our data management solutions no longer match the complexity of organizations, the proliferation of data sources, and the scope of our aspirations to get value from data with AI and analytics. In this practical book, author Zhamak Dehghani introduces data mesh, a decentralized sociotechnical paradigm drawn from modern distributed architecture that provides a new approach to sourcing, sharing, accessing, and managing analytical data at scale. Dehghani guides practitioners, architects, technical leaders, and decision makers on their journey from traditional big data architecture to a distributed and multidimensional approach to analytical data management. Data mesh treats data as a product, considers domains as a primary concern, applies platform thinking to create self-serve data infrastructure, and introduces a federated computational model of data governance. Get a complete introduction to data mesh principles and its constituents Design a data mesh architecture Guide a data mesh strategy and execution Navigate organizational design to a decentralized data ownership model Move beyond traditional data warehouses and lakes to a distributed data mesh

Data Model Scorecard

Data models are the main medium used to communicate data requirements from business to IT, and within IT from analysts, modelers, and architects, to database designers and developers. Therefore it's essential to get the data model right. But how do you determine right? That's where the Data Model Scorecard® comes in. The Data Model Scorecard is a data model quality scoring tool containing ten categories aimed at improving the quality of your organization's data models. Many of my consulting assignments are dedicated to applying the Data Model Scorecard to my client's data models – I will show you how to apply the Scorecard in this book. This book, written for people who build, use, or review data models, contains the Data Model Scorecard template and an explanation along with many examples of each of the ten Scorecard categories. There are three sections: In Section I, Data Modeling and the Need for Validation, receive a short data modeling primer in Chapter 1, understand why it is important to get the data model right in Chapter 2, and learn about the Data Model Scorecard in Chapter 3. In Section II, Data Model Scorecard Categories, we will explain each of the ten categories of the Data Model Scorecard. There are ten chapters in this section, each chapter dedicated to a specific Scorecard category: · Chapter 4: Correctness · Chapter 5: Completeness · Chapter 6: Scheme · Chapter 7: Structure · Chapter 8: Abstraction · Chapter 9: Standards · Chapter 10: Readability · Chapter 11: Definitions · Chapter 12: Consistency · Chapter 13: Data In Section III, Validating Data Models, we will prepare for the model review (Chapter 14), cover tips to help during the model review (Chapter 15), and then review a data model based upon an actual project (Chapter 16).

Agile Data Science 2.0

Data science teams looking to turn research into useful analytics applications require not only the right tools, but also the right approach if they're to succeed. With the revised second edition of this hands-on guide, up-and-coming data scientists will learn how to use the Agile Data Science development methodology to build data applications with Python, Apache Spark, Kafka, and other tools. Author Russell Journey demonstrates how to compose a data platform for building, deploying, and refining analytics applications with Apache Kafka, MongoDB, Elasticsearch, d3.js, scikit-learn, and Apache Airflow. You'll learn an iterative approach that lets you quickly change the kind of analysis you're doing, depending on what the data is telling you. Publish data science work as a web application, and affect meaningful change in your organization. Build value from your data in a series of agile sprints, using the data-value pyramid Extract features for statistical models from a single dataset Visualize data with

charts, and expose different aspects through interactive reports Use historical data to predict the future via classification and regression Translate predictions into actions Get feedback from users after each sprint to keep your project on track

Practical Object-Oriented Design

The Complete Guide to Writing Maintainable, Manageable, Pleasing, and Powerful Object-Oriented Applications Object-oriented programming languages exist to help you create beautiful, straightforward applications that are easy to change and simple to extend. Unfortunately, the world is awash with object-oriented (OO) applications that are difficult to understand and expensive to change. Practical Object-Oriented Design, Second Edition, immerses you in an OO mindset and teaches you powerful, real-world, object-oriented design techniques with simple and practical examples. Sandi Metz demonstrates how to build new applications that can “survive success” and repair existing applications that have become impossible to change. Each technique is illustrated with extended examples in the easy-to-understand Ruby programming language, all downloadable from the companion website, poodr.com. Fully updated for Ruby 2.5, this guide shows how to Decide what belongs in a single class Avoid entangling objects that should be kept separate Define flexible interfaces among objects Reduce programming overhead costs with duck typing Successfully apply inheritance Build objects via composition Whatever your previous object-oriented experience, this concise guide will help you achieve the superior outcomes you’re looking for. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Mastering Data Warehouse Design

Since its groundbreaking inception, the approach to understanding data warehousing has been split into two mindsets: Ralph Kimball, who pioneered the use of dimensional modeling techniques for building the data warehouse, and Bill Inmon, who introduced the Corporate Information Factory and leads those who believe in using relational modeling techniques for the data warehouse. Mastering Data Warehouse Design successfully merges Inmon's data warehouse design philosophies with Kimball's data mart design philosophies to provide you with a compelling and complete overview of exactly what is involved in designing and building a sustainable and extensible data warehouse.

The Elephant in the Fridge

You want the rigor of good data architecture at the speed of agile? Then this is the missing link - your step-by-step guide to Data Vault success. Success with a Data Vault starts with the business and ends with the business. Sure, there's some technical stuff in the middle, and it is absolutely essential - but it's not sufficient on its own. This book will help you shape the business perspective, and weave it into the more technical aspects of Data Vault modeling. You can read the foundational books and go on courses, but one massive risk still remains. Dan Linstedt, the founder of the Data Vault, very clearly directs those building a Data Vault to base its design on an "enterprise ontology". And Hans Hultgren similarly stresses the importance of the business concepts model. So it's important. We get that. But: What on earth is an enterprise ontology/business concept model, 'cause I won't know if I've got one if I don't know what I'm looking for? If I can't find one, how do I get my hands on such a thing? Even if I have one of these wonderful things, how do I apply it to get the sort of Data Vault that's recommended? It's actually not as hard as some would fear to answer all of these questions, and it's certainly worth the effort. This book just might save you a world of pain. It's a supplement to other material on Data Vault modeling, but it's the vital missing link to finding simplicity for Data Vault success.

Rapid Data Warehouse Design

An exciting new approach to dimensional data warehouse design, invented by the author This how-to guide shows you how a revolutionary new approach to dimensional modeling invented by the author can be used throughout the data warehouse analysis and design phases to improve communication between IT and business users-and consequently-produce better results. Featuring proven techniques devised by the author, this book introduces Business Event Analysis and Modeling (BEAM), a powerful, yet simple, technique for modeling directly with business users. You'll learn how to run facilitated BEAM sessions with users to create consensus on data definitions and a sense of business ownership of the data warehouse design. Demonstrates how to use Business Event Analysis and Modeling (BEAM) to readily capture the 5W1H combinations that represent the unique business events of any organization Presents common reusable modeling techniques for handling the complexities of people and groups

(the "who"), products and services (the "what"), geography (the "where") for each dimension type Offers extensive, detailed examples for translating each BEAM model into a dimensional (star schema) model The companion website will include all sample models, document templates, and SQL code examples These proven techniques will help you accomplish your end goal: ensuring that the data warehouse design meet the real needs of users.

The Data Warehouse ETL Toolkit

Cowritten by Ralph Kimball, the world's leading data warehousing authority, whose previous books have sold more than 150,000 copies Delivers real-world solutions for the most time- and labor-intensive portion of data warehousing—data staging, or the extract, transform, load (ETL) process Delineates best practices for extracting data from scattered sources, removing redundant and inaccurate data, transforming the remaining data into correctly formatted data structures, and then loading the end product into the data warehouse Offers proven time-saving ETL techniques, comprehensive guidance on building dimensional structures, and crucial advice on ensuring data quality

Agile Project Management

Best practices for managing projects in agile environments—now updated with new techniques for larger projects Today, the pace of project management moves faster. Project management needs to become more flexible and far more responsive to customers. Using Agile Project Management (APM), project managers can achieve all these goals without compromising value, quality, or business discipline. In Agile Project Management, Second Edition, renowned agile pioneer Jim Highsmith thoroughly updates his classic guide to APM, extending and refining it to support even the largest projects and organizations. Writing for project leaders, managers, and executives at all levels, Highsmith integrates the best project management, product management, and software development practices into an overall framework designed to support unprecedented speed and mobility. The many topics added in this new edition include incorporating agile values, scaling agile projects, release planning, portfolio governance, and enhancing organizational agility. Project and business leaders will especially appreciate Highsmith's new coverage of promoting agility through performance measurements based on value, quality, and constraints. This edition's coverage includes: Understanding the agile revolution's impact on product development Recognizing when agile methods will work in project management, and when they won't Setting realistic business objectives for Agile Project Management Promoting agile values and principles across the organization Utilizing a proven Agile Enterprise Framework that encompasses governance, project and iteration management, and technical practices Optimizing all five stages of the agile project: Envision, Speculate, Explore, Adapt, and Close Organizational and product-related processes for scaling agile to the largest projects and teams Agile project governance solutions for executives and management The "Agile Triangle": measuring performance in ways that encourage agility instead of discouraging it The changing role of the agile project leader

Lean-agile Acceptance Test-driven Development

How to scale ATDD to large projects --

Agile Game Development with Scrum

Deliver Better Games Faster, On Budget—And Make Game Development Fun Again! Game development is in crisis—facing bloated budgets, impossible schedules, unmanageable complexity, and death march overtime. It's no wonder so many development studios are struggling to survive. Fortunately, there is a solution. Scrum and Agile methods are already revolutionizing development outside the game industry. Now, long-time game developer Clinton Keith shows exactly how to successfully apply these methods to the unique challenges of game development. Keith has spent more than fifteen years developing games, seven of them with Scrum and agile methods. Drawing on this unparalleled expertise, he shows how teams can use Scrum to deliver games more efficiently, rapidly, and cost-effectively; craft games that offer more entertainment value; and make life more fulfilling for development teams at the same time. You'll learn to form successful agile teams that incorporate programmers, producers, artists, testers, and designers—and promote effective collaboration within and beyond those teams, throughout the entire process. From long-range planning to progress tracking and continuous integration, Keith offers dozens of tips, tricks, and solutions—all based firmly in reality and hard-won experience. Coverage includes Understanding Scrum's goals, roles, and practices in the context of game development Communicating and planning your game's vision, features, and progress Using

iterative techniques to put your game into a playable state every two to four weeks— even daily Helping all team participants succeed in their roles Restoring stability and predictability to the development process Managing ambiguous requirements in a fluid marketplace Scaling Scrum to large, geographically distributed development teams Getting started: overcoming inertia and integrating Scrum into your studio's current processes Increasingly, game developers and managers are recognizing that things can't go on the way they have in the past. Game development organizations need a far better way to work. Agile Game Development with Scrum gives them that—and brings the profitability, creativity, and fun back to game development.

Specification by Example

Summary Specification by Example is an emerging practice for creating software based on realistic examples, bridging the communication gap between business stakeholders and the dev teams building the software. In this book, author Gojko Adzic distills interviews with successful teams worldwide, sharing how they specify, develop, and deliver software, without defects, in short iterative delivery cycles. About the Technology Specification by Example is a collaborative method for specifying requirements and tests. Seven patterns, fully explored in this book, are key to making the method effective. The method has four main benefits: it produces living, reliable documentation; it defines expectations clearly and makes validation efficient; it reduces rework; and, above all, it assures delivery teams and business stakeholders that the software that's built is right for its purpose. About the Book This book distills from the experience of leading teams worldwide effective ways to specify, test, and deliver software in short, iterative delivery cycles. Case studies in this book range from small web startups to large financial institutions, working in many processes including XP, Scrum, and Kanban. This book is written for developers, testers, analysts, and business people working together to build great software. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Common process patterns How to avoid bad practices Fitting SBE in your process 50+ case studies ===== Table of Contents Part 1 Getting started Part 2 Key process patterns Part 3 Case studies Key benefits Key process patterns Living documentation Initiating the changes Deriving scope from goals Specifying collaboratively Illustrating using examples Refining the specification Automating validation without changing specifications Validating frequently Evolving a documentation system uSwitch RainStor Iowa Student Loan Sabre Airline Solutions ePlan Services Songkick Concluding thoughts

Business Intelligence Guidebook

Between the high-level concepts of business intelligence and the nitty-gritty instructions for using vendors' tools lies the essential, yet poorly-understood layer of architecture, design and process. Without this knowledge, Big Data is belittled – projects flounder, are late and go over budget. Business Intelligence Guidebook: From Data Integration to Analytics shines a bright light on an often neglected topic, arming you with the knowledge you need to design rock-solid business intelligence and data integration processes. Practicing consultant and adjunct BI professor Rick Sherman takes the guesswork out of creating systems that are cost-effective, reusable and essential for transforming raw data into valuable information for business decision-makers. After reading this book, you will be able to design the overall architecture for functioning business intelligence systems with the supporting data warehousing and data-integration applications. You will have the information you need to get a project launched, developed, managed and delivered on time and on budget – turning the deluge of data into actionable information that fuels business knowledge. Finally, you'll give your career a boost by demonstrating an essential knowledge that puts corporate BI projects on a fast-track to success. Provides practical guidelines for building successful BI, DW and data integration solutions. Explains underlying BI, DW and data integration design, architecture and processes in clear, accessible language. Includes the complete project development lifecycle that can be applied at large enterprises as well as at small to medium-sized businesses Describes best practices and pragmatic approaches so readers can put them into action. Companion website includes templates and examples, further discussion of key topics, instructor materials, and references to trusted industry sources.

Java Design Patterns Oracle University

Liberica. Regarding Oracle, it distributes Java 8, and also makes available e.g. Java 11, both also currently supported LTS versions. Oracle (and others) "highly... 75 KB (8,565 words) - 13:58, 13 March 2024

toolkit for Java. It is part of Oracle's Java Foundation Classes (JFC) – an API for providing a graphical user interface (GUI) for Java programs. Swing... 28 KB (3,142 words) - 17:23, 30 December 2023

Oracle Database (commonly referred to as Oracle DBMS, Oracle Autonomous Database, or simply as Oracle) is a proprietary multi-model database management... 23 KB (1,402 words) - 03:35, 19 February 2024

on June 16, 2020. Retrieved June 17, 2020. "Server-Side JavaScript Guide". oracle.com. Oracle Corporation. December 11, 1998. Archived from the original... 95 KB (9,275 words) - 23:01, 17 March 2024

sides with Oracle over Android in Java patent appeal". CNET. Retrieved 2014-05-10. "Google beats Oracle – Android makes "fair use" of Java APIs". Ars... 48 KB (5,213 words) - 18:45, 17 March 2024

1994, p. 112. "Interfaces". The Java Tutorials. Oracle. Retrieved 2012-05-01. Berfeld, Marya (2 December 2008). "UML-to-Java transformation in IBM Rational... 50 KB (5,698 words) - 01:21, 24 February 2024

message : java.io.SyncFailedException: sync failed". groups.google.com. Retrieved 17 November 2023. "Understand the OutOfMemoryError Exception". docs.oracle.com... 17 KB (1,806 words) - 04:12, 1 December 2023

strings (also called patterns) are found within a larger string or text. A basic example of string searching is when the pattern and the searched text... 18 KB (2,004 words) - 18:42, 27 January 2024

Oracle SQL: Data Types". Oracle Database SQL Language Reference 11g Release 2 (11.2). Oracle Database Documentation Library. Redwood City, CA: Oracle... 39 KB (3,755 words) - 11:44, 15 March 2024

patterns, etc. or SQL Server attack patterns, Oracle Attack Patterns, .Net attack patterns, Java attack patterns, etc.) Architectural attack patterns... 13 KB (1,881 words) - 21:35, 12 January 2020

(2014). Java performance : the definitive guide. Sebastopol, CA: O'Reilly Media. ISBN 978-1-4493-6354-3. OCLC 878059649. Design Patterns - University of Washington... 5 KB (537 words) - 15:01, 18 October 2023

Semgrep SourceMeter Understand ESLint – JavaScript syntax checker and formatter. Google's Closure Compiler – JavaScript optimizer that rewrites code to... 39 KB (1,193 words) - 03:52, 12 March 2024

resources about Web service Messaging Design Pattern Archived 2018-10-09 at the Wayback Machine documentation at SOA Patterns The Web Services Activity page... 19 KB (2,245 words) - 06:34, 16 March 2024

middleware) include IBM MQ (formerly MQ Series) and Oracle Advanced Queuing (AQ). There is a Java standard called Java Message Service, which has several proprietary... 15 KB (1,921 words) - 07:28, 27 March 2023

com. Retrieved 2024-02-20. "Pattern (Java Platform SE 7)". docs.oracle.com. Retrieved 2022-04-27. "Regular expressions - JavaScript". MDN. Retrieved 2022-04-27... 99 KB (8,905 words) - 15:06, 14 March 2024

section: Patterns of Enterprise Application Architecture, accessed 7-20-2011 Ruby at ThoughtWorks accessed 2007-7-20. Fowler, Martin (2002). Patterns of Enterprise... 26 KB (2,453 words) - 15:37, 8 March 2024

Methods and Classes". The Java Tutorials. Oracle. Retrieved 4 September 2014. "Using an Interface as a Type". The Java Tutorials. Oracle. Retrieved 4 September... 31 KB (3,871 words) - 16:07, 9 March 2024

comment" style used in the syntax for C and Java is supported by Transact-SQL, MySQL, SQLite, PostgreSQL, and Oracle. MySQL also supports comments from the... 54 KB (6,369 words) - 10:35, 13 January 2024

an object-oriented scripting language for the Java platform, similar to Python, Ruby, and Smalltalk. JavaScript (later: ECMAScript), originally a very... 27 KB (3,211 words) - 01:16, 16 March 2024

interchangeably. The manual extraction of patterns from data has occurred for centuries. Early methods of identifying patterns in data include Bayes' theorem (1700s)... 46 KB (5,009 words) - 18:29, 21 February 2024

Design Patterns Revisited in Modern Java by Venkat Subramaniam - Design Patterns Revisited in Modern Java by Venkat Subramaniam by Devovx UK 24,381 views 9 months ago 51 minutes - For more info on the next Devovx UK event www.devovx.co.uk **Design Patterns**, are common ways to solve problems that ...

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38,233 views 2 years ago 6 minutes, 55 seconds - Today, we add another Behavioral **design pattern**, to our **Design Patterns**, in **Java**, series: The State **Design Pattern**,. Timestamps: ...

Introduction

What is the State Pattern?

State Pattern Implementation

The State Pattern Class Diagram

State vs Strategy

Recap

Thanks for Watching!

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They often fill the gaps between ...

Memento Pattern

Null Pointer Exception

Recommendations

Iterator Patterns

The Iterator Pattern

External Iterator

Internal Iterator

What Is a Pure Function

Rules of Purity

Strategy Pattern

Purity of Functions in Lambda Expressions

Polymorphism

Laziness and Evaluation

Lazy Evaluation

Overriding Functions

Decorator Pattern

The Command Pattern Explained and Implemented in Java | Behavioral Design Patterns | Geekific - The Command Pattern Explained and Implemented in Java | Behavioral Design Patterns | Geekific by Geekific 42,337 views 2 years ago 7 minutes, 5 seconds - In this video, we break down, explain and implement in **Java**, the Command Behavioral **Design Pattern**,. Timestamps: 00:00 ...

Introduction

Practical Use-Case

Command Pattern Implementation

What is the Command Pattern?

Command Pattern Class Diagram

Recap

Thanks for Watching!

The Strategy Pattern Explained and Implemented in Java | Behavioral Design Patterns | Geekific - The Strategy Pattern Explained and Implemented in Java | Behavioral Design Patterns | Geekific by Geekific 67,050 views 2 years ago 7 minutes, 26 seconds - Today, we add another Behavioral **design pattern**, to our **Design Patterns**, in **Java**, series: The Strategy **Design Pattern**,.

Introduction

What is the Strategy Pattern?

Strategy Pattern Implementation

The Strategy Pattern Class Diagram

State vs Strategy

Recap

Thanks for Watching!

The Factory Method Pattern Explained and Implemented in Java | Creational Design Patterns | Geekific - The Factory Method Pattern Explained and Implemented in Java | Creational Design Patterns | Geekific by Geekific 115,313 views 2 years ago 8 minutes, 28 seconds - In the second video of this series we discuss, explain and implement one of the most used and most powerful **Design Patterns**, out ...

Introduction

The Simple Factory Idiom

The Factory Method Pattern

Recap

Abstract Factory Method Teaser

Thanks for Watching!

The Observer Pattern Explained and Implemented in Java | Behavioral Design Patterns | Geekific - The Observer Pattern Explained and Implemented in Java | Behavioral Design Patterns | Geekific by Geekific 56,884 views 2 years ago 6 minutes, 49 seconds - In this video, we break down, define and implement in **Java**, the Observer Behavioral **Design Pattern**,. Timestamps: 00:00 ...

Introduction

What is the Observer Pattern?

Simple Observer Example

Observer Pattern Implementation

The Observer Pattern Class Diagram

Recap

Thanks for Watching!

The Decorator Pattern Explained and Implemented in Java | Structural Design Patterns | Geekific - The Decorator Pattern Explained and Implemented in Java | Structural Design Patterns | Geekific by Geekific 48,441 views 2 years ago 6 minutes, 42 seconds - Today, we add another Structural **design pattern**, to our **Design Patterns**, in **Java**, series: The Decorator **Design Pattern**,.

Introduction

What is the Decorator Pattern?

Decorator Pattern Implementation

The Decorator Pattern Class Diagram

Recap

Thanks for Watching!

8 Design Patterns | Prime Reacts - 8 Design Patterns | Prime Reacts by ThePrimeTime 350,698 views 1 year ago 22 minutes - Design patterns, are really useful ;) ORIGINAL: https://www.youtube.com/watch?v=tAuRQs_d9F8 Recorded live on twitch, GET IN ...

Intro

Factory

Builder

Singleton

Observer

Iterator

Strategy

Adapter

Facade

Factory Pattern in Java: Creating Objects with Ease - Factory Pattern in Java: Creating Objects with Ease by campbelltech 3,356 views 10 months ago 13 minutes, 53 seconds - In this video, you'll learn how to implement the Factory Method **Pattern**, in **Java**, and how it can help simplify your object creation ...

Design Patterns in the Light of Lambda Expressions. Venkat Subramaniam, Agile developer, inc. - Design Patterns in the Light of Lambda Expressions. Venkat Subramaniam, Agile developer, inc. by Devovx 57,486 views 4 years ago 52 minutes - Well welcome to the talk on **design patterns**, at the light of lambda expressions I'm going to talk about how we can benefit from ...

SOLID Principles: Do You Really Understand Them? - SOLID Principles: Do You Really Understand Them? by Alex Hyett 79,064 views 9 months ago 7 minutes, 4 seconds - People mention SOLID everywhere but very few do a good job of explaining it. I am hoping to put an end to that in this video so ...

Introduction

Single Responsibility Principle

Open-Closed Principle

Decorator Pattern

Extension Methods

Liskov Substitution Principle

Interface Segregation Principle

Dependency Inversion Principle

Conclusion

Why Use Design Patterns When Python Has Functions? - Why Use Design Patterns When Python Has Functions? by ArjanCodes 90,800 views 5 months ago 23 minutes - In this video, I'll demonstrate

that functions don't make **design patterns**, obsolete in Python. There's a lot of talk in the developer ...

Intro

Strategy design pattern

Observer design pattern

Template Method

Bonus

Outro

Builder Design Pattern in Java - Builder Design Pattern in Java by Telusko 209,597 views 8 years ago 8 minutes, 34 seconds - Builder **Design Pattern**, in **Java**, This video contains practical session of Builder **Design Pattern**,. Builder **design pattern**, belongs to ...

Introduction

Constructor

Plant

The Amazing Features of Modern Java - Venkat Subramaniam - The Amazing Features of Modern Java - Venkat Subramaniam by Developer Summit 21,054 views 9 months ago 1 hour, 2 minutes - In recent years the development of the **Java**, language has accelerated significantly. Some of the more recent features are quite ...

The Memento Pattern Explained and Implemented in Java | Behavioral Design Patterns | Geekific - The Memento Pattern Explained and Implemented in Java | Behavioral Design Patterns | Geekific by Geekific 17,103 views 2 years ago 6 minutes, 15 seconds - In this video, we break down, define and implement in **Java**, the Memento Behavioral **Design Pattern**,. Timestamps: 00:00 ...

Introduction

What is the Memento Pattern?

Implementing the Memento Pattern

The Memento Pattern Class Diagram

Recap

Thanks for Watching!

Writing cleancode withmodern Java. Miro Cupak, Dnastack - Writing cleancode withmodern Java.- Miro Cupak, Dnastack by Devovx 53,069 views 4 years ago 49 minutes - So there is the last talk for today now we have Mira speaking about the clean code and how to write the perfect coding in **Java**, ...

10 Architecture Patterns Used In Enterprise Software Development Today - 10 Architecture Patterns Used In Enterprise Software Development Today by Coding Tech 238,859 views 2 years ago 11 minutes - Ever wondered how large enterprise scale systems are designed? Before major software development starts, we have to choose ...

5 Design Patterns That Are ACTUALLY Used By Developers - 5 Design Patterns That Are ACTUALLY Used By Developers by Alex Hyett 85,490 views 6 months ago 9 minutes, 27 seconds - Design patterns, allow us to use tested ways for solving problems but there are 23 of them in total and it can be difficult to know ...

Introduction

What is a Design Pattern?

What are the Design Patterns?

Strategy Pattern

Decorator Pattern

Observer Pattern

Singleton Pattern

Facade Pattern

The Builder Pattern Explained and Implemented in Java | Creational Design Patterns | Geekific - The Builder Pattern Explained and Implemented in Java | Creational Design Patterns | Geekific by Geekific 54,369 views 2 years ago 7 minutes, 35 seconds - The **pattern**, we cover in this video is a famous one and was actually mentioned several times during our previous videos.

Introduction

What is the Builder Pattern?

The Simple Builder

Builders and Directors

Builder Class Diagram

Recap

Thanks for Watching!

Design Patterns in Java Theory - Design Patterns in Java Theory by Telusko 485,521 views 8 years ago 5 minutes, 40 seconds - GoF **Design Pattern**, Recommended Book : Head First **Design Pattern**, : <http://amzn.to/2pY5xbR> Best practices are called as Design ...

Design Patterns in Java | Java Design Patterns for Beginners | Design Patterns Tutorial | Edureka - Design Patterns in Java | Java Design Patterns for Beginners | Design Patterns Tutorial | Edureka by edureka! 186,394 views 4 years ago 24 minutes - 00:32 Why do we need **Design Patterns**,? 01:35 Structure of **Design Patterns**, 03:56 Types of **Design Patterns**, 04:15 Creational ...

Why do we need Design Patterns?

Structure of Design Patterns

Types of Design Patterns

Creational Design Patterns

Factory Design Pattern

Singleton Design Design Pattern

Structural Design Patterns

Facade Design Pattern

Adapter Design Pattern

Behavioral Design Patterns

Strategy Design Pattern

Command Design Pattern

Observer Design Pattern

JEE Design Patterns

MVC Design Pattern

DAO Design Pattern

Overview of Design Patterns

Java Design Patterns - step by step - made easy for Beginners. - Java Design Patterns - step by step - made easy for Beginners. by Patrick WashingtonDC 147,606 views 5 years ago 54 minutes - Fastest way to learn **Java Design Patterns**,. A 3 day class edited so tight, what resulted was just 2.5 hrs.

When you learn a ...

What Are Design Patterns

Learn To Write Programs Design Patterns

Singleton Pattern

Get Instance Method

What Is a Singleton Pattern Singleton Pattern

Basic Concepts of Object-Oriented Programming

Rules of Design Pattern

Factory Pattern

Test Method

Abstract Methods

Placeholders

Template Method Pattern

10 Design Patterns Explained in 10 Minutes - 10 Design Patterns Explained in 10 Minutes by Fireship 2,082,738 views 2 years ago 11 minutes, 4 seconds - #programming #compsci #learntocode

Resources Learn more from Refactoring Guru <https://refactoring.guru/design-patterns/> ...

Design Patterns

What are Software Design Patterns?

Singleton

Prototype

Builder

Factory

Facade

Proxy

Iterator

Observer

Mediator

State

The Singleton Pattern Explained and Implemented in Java | Creational Design Patterns | Geekific - The Singleton Pattern Explained and Implemented in Java | Creational Design Patterns | Geekific by Geekific 65,058 views 2 years ago 8 minutes, 28 seconds - In the first video of this series we start with one of the simplest, yet one of the most used **Design Patterns**, out there: the Singleton ...

Introduction
What is the Singleton Pattern?
Simple Singleton Implementation
Thread-Safe Singleton Implementation
Enhanced Singleton Implementation
Recap
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