

Teradata 14 Basics

Teradata 12 Certification Study Guide Artificial Intelligence Basics Fundamentals of Stream Processing Teradata 14 Certification Study Guide Management Fundamentals Management Fundamentals The Data Warehouse Toolkit New Advances in Information Systems and Technologies InfoSphere DataStage Parallel Framework Standard Practices Teradata Cookbook Beyond Databases, Architectures and Structures Database Administration The Data Warehouse ETL Toolkit Fundamentals of Human Resource Management SQL Server 2016 Developer's Guide Bitemporal Data Data, Engineering and Applications V14 Certification Hands-On SAS for Data Analysis Exploring SAS Viya Handbook on Decision Support Systems 1 Getting Started with SQL CIO Databases A Beginner's Guide Data Analysis Using SQL and Excel Deployment Guide for InfoSphere Guardium Modern Database Management Database Concepts InfoSphere DataStage for Enterprise XML Data Integration About Face Computerworld DOLAP ... Expert Oracle GoldenGate Information Systems and Technology Education: From the University to the Workplace Tapping into Unstructured Data Microsoft Power BI Quick Start Guide Network World SAS Data Integration Studio 3.4 Project-Oriented Leadership Analytics, Innovation, and Excellence-Driven Enterprise Sustainability Cerulium Corporation Tom Taulli Henrique C. M. Andrade Cerulium Corporation Robert N. Lussier Ralph Kimball Álvaro Rocha Julius Lerm Abhinav Khandelwal Stanisław Kozielski Craig Mullins Ralph Kimball Robert N. Lussier Dejan Sarka Tom Johnston Sanjeev Sharma Tom Coffing Harish Gulati Sas Education Frada Burstein Thomas Nield Andy Oppel Gordon S. Linoff Whei-Jen Chen Fred R. McFadden Dennis W. Fife Chuck Ballard Alan Cooper Ben Prusinski Lowry, Glenn R. William H. Inmon Devin Knight SAS Institute Ralf Muller Elias G. Carayannis

Teradata 12 Certification Study Guide Artificial Intelligence Basics Fundamentals of Stream Processing Teradata 14 Certification Study Guide Management Fundamentals Management Fundamentals The Data Warehouse Toolkit New Advances in Information Systems and Technologies InfoSphere DataStage Parallel Framework Standard Practices Teradata Cookbook Beyond Databases, Architectures and Structures Database Administration The Data Warehouse ETL Toolkit Fundamentals of Human Resource Management SQL Server 2016 Developer's Guide Bitemporal Data Data, Engineering and Applications V14 Certification Hands-On SAS for Data Analysis Exploring SAS Viya Handbook on Decision Support Systems 1 Getting Started with SQL CIO Databases A Beginner's Guide Data Analysis Using SQL and Excel Deployment Guide for InfoSphere Guardium Modern Database Management Database Concepts InfoSphere DataStage for Enterprise XML Data Integration About Face Computerworld DOLAP ... Expert Oracle GoldenGate Information Systems and Technology Education: From the University to the Workplace Tapping into Unstructured Data Microsoft Power BI Quick Start Guide Network World SAS Data Integration Studio 3.4 Project-Oriented Leadership Analytics, Innovation, and Excellence-Driven Enterprise Sustainability *Cerulium Corporation Tom Taulli Henrique C. M. Andrade Cerulium Corporation Robert N. Lussier Ralph Kimball Álvaro Rocha Julius Lerm Abhinav Khandelwal Stanisław Kozielski Craig Mullins Ralph Kimball Robert N. Lussier Dejan Sarka Tom Johnston Sanjeev Sharma Tom Coffing Harish Gulati Sas Education Frada Burstein Thomas Nield Andy Oppel Gordon S. Linoff Whei-Jen Chen Fred R. McFadden Dennis W. Fife Chuck Ballard Alan Cooper Ben Prusinski Lowry, Glenn R. William H. Inmon Devin Knight SAS Institute Ralf Muller Elias G. Carayannis*

artificial intelligence touches nearly every part of your day while you may initially assume that technology such as smart speakers and digital assistants are the extent of it ai has in fact rapidly become a general purpose technology reverberating across industries including transportation healthcare financial services and many more in our modern era an understanding of ai and its possibilities for your organization is essential for growth and success artificial intelligence basics

has arrived to equip you with a fundamental timely grasp of ai and its impact author tom taulli provides an engaging non technical introduction to important concepts such as machine learning deep learning natural language processing nlp robotics and more in addition to guiding you through real world case studies and practical implementation steps taulli uses his expertise to expand on the bigger questions that surround ai these include societal trends ethics and future impact ai will have on world governments company structures and daily life google amazon facebook and similar tech giants are far from the only organizations on which artificial intelligence has had and will continue to have an incredibly significant result ai is the present and the future of your business as well as your home life strengthening your prowess on the subject will prove invaluable to your preparation for the future of tech and artificial intelligence basics is the indispensable guide that you've been seeking what you will learn study the core principles for ai approaches such as machine learning deep learning and nlp natural language processing discover the best practices to successfully implement ai by examining case studies including uber facebook waymo uipath and stitch fix understand how ai capabilities for robots can improve business deploy chatbots and robotic processing automation rpa to save costs and improve customer service avoid costly gotchas recognize ethical concerns and other risk factors of using artificial intelligence examine the secular trends and how they may impact your business who this book is for readers without a technical background such as managers looking to understand ai to evaluate solutions

stream processing is a novel distributed computing paradigm that supports the gathering processing and analysis of high volume heterogeneous continuous data streams to extract insights and actionable results in real time this comprehensive hands on guide combining the fundamental building blocks and emerging research in stream processing is ideal for application designers system builders analytic developers as well as students and researchers in the field this book introduces the key components of the stream computing paradigm including the distributed system infrastructure the programming model design patterns and streaming analytics the explanation of the underlying theoretical principles illustrative examples and implementations using the ibm infosphere streams spl language and real world case studies provide students and practitioners with a comprehensive understanding of such applications and the middleware that supports them

the teradata 14 basics study guide is designed for those who are interested in becoming a teradata certified professional through simplified examples and explanations this guide prepares the reader to write the teradata 14 basics exam

packed with experiential exercises self assessments and group activities the ninth edition of management fundamentals concepts applications and skill development develops essential management skills students can use in their personal and professional lives bestselling author robert n lussier uses the most current examples to illustrate management concepts in today's ever changing business world this fully updated new edition provides new coverage of important topics like generational differences sexual harassment ai and cybersecurity students learn about management in the real world with 18 new cases including cases on the nba h m netflix and peloton this title is accompanied by a complete teaching and learning package

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

this book contains a selection of articles from the 2016 world conference on information systems and technologies worldcist 16 held between the 22nd and 24th of march at recife pernambuco brazil worldcist is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and challenges of modern information systems and technologies research together with their technological development and applications the main topics covered are information and knowledge management organizational models and information systems software and systems modeling software systems architectures applications and tools multimedia systems and applications computer networks mobility and pervasive systems intelligent and decision support systems big data analytics and applications human computer interaction health informatics information technologies in education information technologies in radiocommunications

in this ibm redbooks publication we present guidelines for the development of highly efficient and scalable information integration applications with infospheretm datastage ds parallel jobs infosphere datastage is at the core of ibm information server providing components that yield a high degree of freedom for any particular problem there might be multiple solutions which tend to be influenced by personal preferences background and previous experience all too often those solutions yield less than optimal and non scalable implementations this book includes a comprehensive detailed description of the components available and descriptions on how to use them to obtain scalable and efficient solutions for both batch and real time scenarios the advice provided in this document is the result of the combined proven experience from a number of expert practitioners in the field of high performance information integration evolved over several years this book is intended for it architects information management specialists and information integration specialists responsible for delivering cost effective ibm infosphere datastage performance on all platforms

data management and analytics simplified with teradata key features take your understanding of teradata to the next level and build efficient data warehousing applications for your organization covers recipes on data handling warehousing advanced querying and the administrative tasks in teradata contains practical solutions to tackle common and not so common problems you might encounter in your day to day activities book description teradata is an enterprise software company that develops and sells its eponymous relational database management system rdbms which is considered to be a leading data warehousing solutions and provides data management solutions for analytics this book will help you get all the practical information you need for the creation and implementation of your data warehousing solution using teradata the book begins with recipes on quickly setting up a development environment so you can work with different types of data structuring and manipulation function you will tackle all problems related to efficient querying stored procedure searching and navigation techniques additionally you ll master various administrative tasks such as user and security management workload management high availability performance tuning and monitoring this book is designed to take you through the best practices of performing the real daily tasks of a teradata dba and will help you tackle any problem you might encounter in the process what you will learn understand teradata s competitive advantage over other rdbmss use sql to process data stored in teradata tables leverage teradata s available application utilities and parallelism to play with large datasets apply various performance tuning techniques to optimize the queries acquire deeper knowledge and understanding of the teradata architecture easy steps to load archive restore data and implement teradata protection features gain confidence in running a wide variety of data analytics and develop applications for the teradata environment who this book is for this book is for database administrator s and teradata users who are looking for a practical one stop resource to solve all

their problems while handling their teradata solution if you are looking to learn the basic as well as the advanced tasks involved in teradata querying or administration this book will be handy some knowledge of relational database concepts will be helpful to get the best out of this book

this book constitutes the refereed proceedings of the 11th international conference entitled beyond databases architectures and structures bdas 2015 held in ustro  poland in may 2015 this book consists of 53 carefully revised selected papers that are assigned to 8 thematic groups database architectures and performance data integration storage and data warehousing ontologies and semantic web artificial intelligence data mining and knowledge discovery image analysis and multimedia mining spatial data analysis database systems development application of database systems

giving comprehensive soup to nuts coverage of database administration this guide is written from a platform independent viewpoint emphasizing best practices

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

learn by doing fundamentals of human resource management functions applications skill development helps students of all majors build the skills they need to recruit select train and develop employees bestselling authors robert n lussier and john r hendon explore the important strategic function hr plays in today s organizations a wide variety of applications self assessments and experiential exercises keep students engaged and help them see the relevancy of hr as they learn skills they can use in their personal and professional lives the second edition includes 13 new case studies and new coverage of the agile workplace generational differences gamification social media and diversity and inclusion

get the most out of the rich development capabilities of sql server 2016 to build efficient database applications for your organization about this book utilize the new enhancements in transact sql and security features in sql server 2016 to build efficient database applications work with temporal tables to get information about data stored in the table at any point in time a detailed guide to sql server 2016 introducing you to multiple new features and enhancements to improve your overall development experience who this book is for this book is for database developers and solution architects who plan to use the new sql server 2016 features for developing efficient database applications it is also ideal for experienced sql server developers who want to switch to sql server 2016 for its rich development capabilities some understanding of the basic database concepts and transact sql language is assumed what you will learn explore the new development features introduced in sql server 2016 identify opportunities for in memory oltp technology significantly enhanced in sql server 2016 use columnstore indexes to get significant storage and performance improvements extend database design solutions using temporal tables exchange json data between applications and sql server in a more efficient way migrate historical data transparently and securely to microsoft azure by using stretch database use the new security features to encrypt or to have more granular control over access to rows in a table simplify performance troubleshooting with query store discover the potential of r s integration with sql server in detail microsoft sql server 2016 is considered the biggest leap in the data platform history of the microsoft in the ongoing era of big data and data science compared to its predecessors sql server 2016 offers developers a unique opportunity to leverage the advanced features and build applications that are robust scalable and easy to administer this book

introduces you to new features of sql server 2016 which will open a completely new set of possibilities for you as a developer it prepares you for the more advanced topics by starting with a quick introduction to sql server 2016 s new features and a recapitulation of the possibilities you may have already explored with previous versions of sql server the next part introduces you to small delights in the transact sql language and then switches to a completely new technology inside sql server json support we also take a look at the stretch database security enhancements and temporal tables the last chapters concentrate on implementing advanced topics including query store columnstore indexes and in memory oltp you will finally be introduced to r and how to use the r language with transact sql for data exploration and analysis by the end of this book you will have the required information to design efficient high performance database applications without any hassle style and approach this book is a detailed guide to mastering the development features offered by sql server 2016 with a unique learn as you do approach all the concepts are explained in a very easy to understand manner and are supplemented with examples to ensure that you the developer are able to take that next step in building more powerful robust applications for your organization with ease

bitemporal data has always been important but it was not until 2011 that the iso released a sql standard that supported it currently among major dbms vendors oracle ibm and teradata now provide at least some bitemporal functionality in their flagship products but to use these products effectively someone in your it organization needs to know more than how to code bitemporal sql statements perhaps in your organization that person is you to correctly interpret business requests for temporal data to correctly specify requirements to your it development staff and to correctly design bitemporal databases and applications someone in your enterprise needs a deep understanding of both the theory and the practice of managing bitemporal data someone also needs to understand what the future may bring in the way of additional temporal functionality so their enterprise can plan for it perhaps in your organization that person is you this is the book that will show the do it yourself it professional how to design and build bitemporal databases and how to write bitemporal transactions and queries and will show those who will direct the use of vendor provided bitemporal dbmss exactly what is going on under the covers of that software explains the business value of bitemporal data in terms of the information that can be provided by bitemporal tables and not by any other form of temporal data including history tables version tables snapshot tables or slowly changing dimensions provides an integrated account of the mathematics logic ontology and semantics of relational theory and relational databases in terms of which current relational theory and practice can be seen as unnecessarily constrained to the management of nontemporal and incompletely temporal data explains how bitemporal tables can provide the time variance and nonvolatility hitherto lacking in inmon historical data warehouses explains how bitemporal dimensions can replace slowly changing dimensions in kimball star schemas and why they should do so describes several extensions to the current theory and practice of bitemporal data including the use of episodes whenever temporal transactions and queries and future transaction time points out a basic error in the iso s bitemporal sql standard and warns practitioners against the use of that faulty functionality recommends six extensions to the iso standard which will increase the business value of bitemporal data poi

the book contains select proceedings of the 3rd international conference on data engineering and applications idea 2021 it includes papers from experts in industry and academia that address state of the art research in the areas of big data data mining machine learning data science and their associated learning systems and applications this book will be a valuable reference guide for all graduate students researchers and scientists interested in exploring the potential of big data applications

you are going to love this book because your confidence and knowledge will soar v14 certification teradata basics has been designed to help you pass the test but it is so much more it is an incredible reference guide learning tool and foundation for passing all the tests and becoming a teradata certified master

leverage the full potential of sas to get unique actionable insights from your data key features build enterprise class data solutions using sas and become well versed in sas programming work with different data structures and run sql queries to manipulate your data explore essential concepts and techniques with practical examples to confidently pass the sas certification exam book description sas is one of the leading enterprise tools in the world today when it comes to data management and analysis it enables the fast and easy processing of data and helps you gain valuable business insights for effective decision making this book will serve as a comprehensive guide that will prepare you for the sas certification exam after a quick overview of the sas architecture and components the book will take you through the different approaches to importing and reading data from different sources using sas you will then cover sas base and 4gl understanding data management and analysis along with exploring sas functions for data manipulation and transformation next you ll discover sql procedures and get up to speed on creating and validating queries in the concluding chapters you ll learn all about data visualization right from creating bar charts and sample geographic maps through to assigning patterns and formats in addition to this the book will focus on macro programming and its advanced aspects by the end of this book you will be well versed in sas programming and have the skills you need to easily handle and manage your data related problems in sas what you will learn explore a variety of sas modules and packages for efficient data analysis use sas 4gl functions to manipulate merge sort and transform data gain useful insights into advanced proc sql options in sas to interact with data get to grips with sas macro and define your own macros to share data discover the different graphical libraries to shape and visualize data with apply the sas output delivery system to prepare detailed reports who this book is for budding or experienced data professionals who want to get started with sas will benefit from this book those looking to prepare for the sas certification exam will also find this book to be a useful resource some understanding of basic data management concepts will help you get the most out of this book

this first book in the series covers how to access data files libraries and existing code in sas studio you also learn about new procedures in sas viya how to write new code and how to use some of the pre installed tasks that come with sas visual data mining and machine learning in the last chapter you learn how to use the features in sas data preparation to perform data management tasks using sas data explorer sas data studio and sas lineage viewer also available free as a pdf from sas com books

decision support systems have experienced a marked increase in attention and importance over the past 25 years the aim of this book is to survey the decision support system dss field covering both developed territory and emergent frontiers it will give the reader a clear understanding of fundamental dss concepts methods technologies trends and issues it will serve as a basic reference work for dss research practice and instruction to achieve these goals the book has been designed according to a ten part structure divided in two volumes with chapters authored by well known well versed scholars and practitioners from the dss community

quickly master the fundamentals of sql right in your own home without having to use a database server environment ideal for business professionals as well as absolute beginners who want to acquire data proficiency this practical guide teaches you how to pull and transform data in meaningful ways you ll also learn how to design your own databases using best practices in table design practice at home with hands on exercises to learn sql leverage sqlite and sqlitestudio to create databases within minutes

essential database skills made easy learn standard database design and management techniques applicable to any type of database featuring clear examples using both microsoft access and oracle databases a beginner s guide begins by showing you how to use structured query language sql to create and access database objects then you ll discover how to implement logical design using normalization transform the logical design into a physical database and handle data and process modeling you ll also get details on database security online analytical processing olap

connecting databases to applications and integrating xml and object content into databases designed for easy learning key skills concepts chapter opening lists of specific skills covered in the chapter ask the expert q a sections filled with bonus information and helpful tips try this hands on exercises that show you how to apply your skills notes extra information related to the topic being covered self tests chapter ending quizzes to test your knowledge

useful business analysis requires you to effectively transform data into actionable information this book helps you use sql and excel to extract business information from relational databases and use that data to define business dimensions store transactions about customers produce results and more each chapter explains when and why to perform a particular type of business analysis in order to obtain useful results how to design and perform the analysis using sql and excel and what the results should look like

ibm infosphere guardium provides the simplest most robust solution for data security and data privacy by assuring the integrity of trusted information in your data center infosphere guardium helps you reduce support costs by automating the entire compliance auditing process across heterogeneous environments infosphere guardium offers a flexible and scalable solution to support varying customer architecture requirements this ibm redbooks publication provides a guide for deploying the guardium solutions this book also provides a roadmap process for implementing an infosphere guardium solution that is based on years of experience and best practices that were collected from various guardium experts we describe planning installation configuration monitoring and administering an infosphere guardium environment we also describe use cases and how infosphere guardium integrates with other ibm products the guidance can help you successfully deploy and manage an ibm infosphere guardium system this book is intended for the system administrators and support staff who are responsible for deploying or supporting an infosphere guardium environment

the fifth edition of modern database management has been updated to reflect the most current database content available it provides sound clear and current coverage of the concepts skills and issues needed to cope with an expanding organizational resource while sufficient technical detail is provided the emphasis remains on management and implementation issues pertinent in a business information systems curriculum modern database management 5e is the ideal book for your database management course includes coverage of today s leading database technologies oracle and microsoft access replace dbase and paradox now organized to create a modern framework for a range of databases and the database development of information systems expanded coverage of object oriented techniques in two full chapters covers conceptual object oriented modelling using the new unified modelling language and object oriented database development and querying using the latest odmg standards restructured to emphasize unique database issues that arise during the design of client server applications updated to reflect current developments in client server issues including three tiered architect

xml is one of the most common standards for the exchange of information however organizations find challenges in how to address the complexities of dealing with hierarchical data types particularly as they scale to gigabytes and beyond in this ibm redbooks publication we discuss and describe the new capabilities in ibm infosphere datastage 8.5 these capabilities enable developers to more easily manage the design and processing requirements presented by the most challenging xml sources developers can use these capabilities to create powerful hierarchical transformations and to parse and compose xml data with high performance and scalability spanning both batch and real time run times these capabilities can be used to solve a broad range of business requirements as part of the ibm infosphere information server 8.5 release infosphere datastage was enhanced with new hierarchical transformation capabilities called xml stage provides native xml schema support and powerful xml transformation functionality these capabilities are based on a unique state of the art technology that allows you to parse and compose any complex xml structure from and to a relational form as well as to a separate

hierarchical form this book is targeted at an audience of systems designers and developers who focus on implementing xml integration support in their environments

the essential interaction design guide fully revised and updated for the mobile age about face the essentials of interaction design fourth edition is the latest update to the book that shaped and evolved the landscape of interaction design this comprehensive guide takes the worldwide shift to smartphones and tablets into account new information includes discussions on mobile apps touch interfaces screen size considerations and more the new full color interior and unique layout better illustrate modern design concepts the interaction design profession is blooming with the success of design intensive companies priming customers to expect design as a critical ingredient of marketplace success consumers have little tolerance for websites apps and devices that don't live up to their expectations and the responding shift in business philosophy has become widespread about face is the book that brought interaction design out of the research labs and into the everyday lexicon and the updated fourth edition continues to lead the way with ideas and methods relevant to today's design practitioners and developers updated information includes contemporary interface interaction and product design methods design for mobile platforms and consumer electronics state of the art interface recommendations and up to date examples updated goal directed design methodology designers and developers looking to remain relevant through the current shift in consumer technology habits will find about face to be a comprehensive essential resource

for more than 40 years computerworld has been the leading source of technology news and information for it influencers worldwide computerworld's award winning site computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global it media network

expert oracle goldengate is a hands on guide to creating and managing complex data replication environments using the latest in database replication technology from oracle goldengate is the future in replication technology from oracle and aims to be best of breed goldengate supports homogeneous replication between oracle databases it supports heterogeneous replication involving other brands such as microsoft sql server and ibm db2 universal server goldengate is high speed bidirectional highly parallelized and makes only a light impact on the performance of databases involved in replication the authors share their experience in the form of tutorials on designing and implementing all types of oracle goldengate environments you'll learn methods for tuning oracle goldengate performance you'll discover goldengate's utility as a migration and extract transform load etl tool you'll learn to configure highly available environments involving goldengate real application clusters and data guard from installation to design to implementation and troubleshooting expert oracle goldengate helps you master all aspects of using and applying oracle goldengate as the replication tool of choice in your environment explains all aspects of using goldengate for replication covers homogeneous heterogeneous and bidirectional replication shows the use of goldengate for data migration and extract transform load etl

this book presents a multifaceted global view of the human dynamics of education supply demand and career development in the information systems and technology industry it provides a tool to meet the challenges of providing improved education and employing an optimal supply of information systems and technology graduates in the decades to come provided by publisher

the definitive guide to unstructured data management and analysis from the world's leading information management expert a wealth of invaluable information exists in unstructured textual form but organizations have found it difficult or impossible to access and utilize it this is changing rapidly new approaches finally make it possible to glean useful knowledge from virtually any collection of unstructured data william h inmon the father of data warehousing and anthony nesavich introduce the next data revolution unstructured data management inmon and nesavich cover all you need to know to make unstructured data work for your organization you'll learn how

to bring it into your existing structured data environment leverage existing analytical infrastructure and implement textual analytic processing technologies to solve new problems and uncover new opportunities inmon and nesavich introduce breakthrough techniques covered in no other book including the powerful role of textual integration new ways to integrate textual data into data warehouses and new sql techniques for reading and analyzing text they also present five chapter length real world case studies demonstrating unstructured data at work in medical research insurance chemical manufacturing contracting and beyond this book will be indispensable to every business and technical professional trying to make sense of a large body of unstructured text managers database designers data modelers dbas researchers and end users alike coverage includes what unstructured data is and how it differs from structured data first generation technology for handling unstructured data from search engines to ecm and its limitations integrating text so it can be analyzed with a common colloquial vocabulary integration engines ontologies glossaries and taxonomies processing semistructured data uncovering patterns words identifiers and conflicts novel processing opportunities that arise when text is freed from context architecture and unstructured data data warehousing 2 0 building unstructured relational databases and linking them to structured data visualizations and self organizing maps some including compudigm and raptor solutions capturing knowledge from spreadsheet data and email implementing and managing metadata data models data quality and more

an accessible fast paced introduction to all aspects of power bi for new or aspiring bi professionals data analysts and data visualizers purchase of the print or kindle book includes a free ebook in the pdf format key features updated with the latest features in power bi including dataflow ai insights visuals and row level security get faster and more intuitive data insights using microsoft power bi and its business intelligence capabilities build accurate analytical models reports and dashboards book description this revised edition has been fully updated to reflect the latest enhancements to power bi it includes a new chapter dedicated to dataflow and covers all the essential concepts such as installation designing effective data models as well as building basic dashboards and visualizations to help you and your organization make better business decisions you ll learn how to obtain data from a variety of sources and clean it using power bi query editor you ll then find out how you can design your data model to navigate and explore relationships within it and build dax formulas to make your data easier to work with visualizing your data is a key element in this book and you ll get to grips rapidly with data visualization styles and enhanced digital storytelling techniques in addition you will acquire the skills to build your own dataflows understand the common data model and automate data flow refreshes to eradicate data cleansing inefficiency this guide will help you understand how to administer your organization s power bi environment so that deployment can be made seamless data refreshes can run properly and security can be fully implemented by the end of this power bi book you ll have a better understanding of how to get the most out of power bi to perform effective business intelligence what you will learn connect to data sources using import and directquery options use query editor for data transformation and data cleansing processes including writing m and r scripts and dataflows to do the same in the cloud design optimized data models by designing relationships and dax calculations design effective reports with built in and custom visuals adopt power bi desktop and service to implement row level security administer a power bi cloud tenant for your organization use built in ai capabilities to enhance power bi data transformation techniques deploy your power bi desktop files into the power bi report server who this book is for aspiring business intelligence professionals who want to learn power bi will find this book useful if you have a basic understanding of bi concepts and want to learn how to apply them using microsoft power bi this book is for you

for more than 20 years network world has been the premier provider of information intelligence and insight for network and it executives responsible for the digital nervous systems of large organizations readers are responsible for designing implementing and managing the voice data

and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce

this manual is a task oriented introduction to the main features of sas data integration studio sas data integration studio is a visual design tool that enables you to consolidate and manage enterprise data from a variety of source systems applications and technologies the audience for this manual is users who are responsible for data integration and who have a working knowledge of base sas software this title is also available online

from the perspective of delivering successful projects the value of a skilled project sponsor and project manager outweighs many other factors projects need leaders who can give them vision identity keep the stakeholders and the project team on board and make the difficult decisions that will enable the project to continue or if necessary be terminated these are human skills that don t necessarily feature large in the project management bodies of knowledge ralf müller and rodney turner s project oriented leadership explains the key leadership models of managerial intellectual and emotional leadership and shows how they can be applied within projects to lead processes functions and people and ensure an ethical and inclusive approach within projects and programs

this book offers a unique view of how innovation and competitiveness improve when organizations establish alliances with partners who have strong capabilities and broad social capital allowing them to create value and growth as well as technological knowledge and legitimacy through new knowledge resources organizational intelligence integrates the technology variable into production and business systems establishing a basis to advance decision making processes when strategically integrated these factors have the power to promote enterprise resilience robustness and sustainability this book provides a unique perspective on how knowledge information and data analytics create opportunities and challenges for sustainable enterprise excellence it also shows how the value of digital technology at both personal and industrial levels leads to new opportunities for creating experiences processes and organizational forms that fundamentally reshape organizations

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Understanding the Surfacing Tab: A Deep Dive

The "surfacing tab" isn't a universally recognized term in a single technological field. Instead, it represents a conceptual idea applicable across various software applications and user interface designs. Essentially, a surfacing tab refers to any UI element that dynamically appears or becomes prominent to the user only when needed or relevant to their current task or context. It avoids cluttering the interface with constantly visible elements, improving usability and reducing cognitive load. This article explores the concept of surfacing tabs, its various forms, and its application across different platforms and software.

1. The Core Principle: Contextual Relevance

The fundamental principle behind a surfacing tab is contextual relevance. It only surfaces – becomes visible and potentially interactive – when the user's actions or the application's state necessitates its presence. Think of it as a clever form of "just-in-time" UI design. A constantly visible tab might be distracting or irrelevant in many situations, leading to screen clutter. A surfacing tab solves this problem by appearing only when its functionality is needed, thereby streamlining the user experience.

2. Manifestations of Surfacing Tabs: Forms and Examples

Surfacing tabs manifest in various forms, depending on the application and design choices. Here are a few common examples: **Hover Effects:** A small icon or tab might only appear when the user hovers their mouse cursor over a specific area of the screen. This is common in web design, where a small "edit" icon might only become visible when hovering over an editable text element. **Contextual Menus:** Right-clicking (or equivalent actions on touchscreens) often brings up a contextual menu. This menu acts as a surfacing tab, offering actions relevant to the selected element or the current context. For example, right-clicking a file in a file explorer might surface options like "Open," "Copy," "Delete," etc. **Progressive Disclosure:** This is a broader design pattern that incorporates surfacing tabs. It involves revealing information or controls gradually, only when the user needs them. For instance, a complex form might initially show only essential fields, with advanced options appearing only when a user clicks a "Show Advanced Options" button. **Dynamically Appearing Toolbars:** Some applications feature toolbars that appear or disappear based on the current tool or task. In image editing software, for instance, the toolbar might change its contents based on the selected tool (e.g., different options for brush tools vs. selection tools). **Floating Action Buttons (FABs):** These are circular buttons that often float in a corner of the screen, providing a quick access point to a primary action. While always visible, they can be considered a form of surfacing tab as they often lead to more detailed options or menus.

3. Benefits of Utilizing Surfacing Tabs

Implementing surfacing tabs offers several significant advantages: **Reduced Clutter:** Minimizing the number of constantly visible elements leads to a cleaner, less cluttered interface. This is especially beneficial for applications with many features or options. **Improved Usability:** By only showing relevant options, surfacing tabs improve usability by reducing cognitive load. Users don't have to scan through irrelevant elements to find what they need. **Enhanced Discoverability:** While initially hidden, surfacing tabs can draw the user's attention to less obvious features once they reach the necessary context. This helps enhance discoverability. **More Efficient Workflow:** A cleaner interface fosters a more streamlined workflow, enabling users to accomplish tasks quicker.

and more efficiently.

4. Considerations for Implementing Surfacing Tabs

While surfacing tabs offer many advantages, careful design considerations are necessary: **Clear Indication:** The user should have clear visual cues indicating the presence and accessibility of surfacing tabs. **Poorly indicated tabs** can lead to frustration. **Appropriate Timing:** The timing of surfacing tabs is crucial. They should appear at the right moment, not too early or too late. **Consistency:** Maintain consistency in the design and behavior of surfacing tabs throughout the application. **Inconsistent design** can confuse users. **Accessibility:** Ensure surfacing tabs adhere to accessibility guidelines, providing alternative means of access for users with disabilities.

Summary

Surfacing tabs represent a powerful UI design technique aimed at optimizing user experience. By presenting information and controls only when relevant, they reduce visual clutter, improve usability, and enhance overall efficiency. This approach, manifested through various UI elements like hover effects, contextual menus, and progressive disclosure, provides a more streamlined and intuitive user interaction. Careful planning and design are crucial to ensure the effective implementation of surfacing tabs, maximizing their benefits while avoiding potential pitfalls.

FAQs:

1. Q: Are surfacing tabs the same as tooltips? A: No, while both provide contextual information, tooltips typically offer brief explanations, whereas surfacing tabs reveal interactive elements or controls. 2. Q: Can surfacing tabs be used in mobile app design? A: Yes, absolutely. Contextual menus and FABs are prime examples of surfacing tabs commonly employed in mobile apps. 3. Q: What are the downsides of surfacing tabs? A: Poorly implemented surfacing tabs can be difficult to discover or may appear unexpectedly, leading to user frustration. Careful design and clear visual cues are essential. 4. Q: How do I decide when to use a surfacing tab versus a permanently visible element? A: If an element is only needed in specific contexts or rarely used, a surfacing tab is preferable. Frequently used elements should remain visible for efficient access. 5. Q: Are there any design patterns that complement surfacing tabs? A: Yes, progressive disclosure, layered navigation, and minimalist design principles often work well alongside surfacing tabs to create a highly usable and efficient interface.

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