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This Book Is Mainly Intended For It Students And Professionals To Learn Or Implement Data Warehousing Technologies. It Experiences The Real-Time Environment And Promotes Planning, Managing, Designing, Implementing, Supporting, Maintaining And Analyzing Data Warehouse In Organizations And It Also Provides Various Mining Techniques As Well As Issues In Practical Use Of Data Mining Tools. The Book Is Designed For The Target Audience Such As Specialists, Trainers And It Users. It Does Not Assume Any Special Knowledge As Background. Understanding Of Computer Use, Databases And Statistics Will Be Helpful. Unlike popular belief, Data Warehouse is not a single tool but a collection of software tools. A data warehouse will collect data from diverse sources into a single database. Using Business Intelligence tools, meaningful insights are drawn from this data. The best thing about "Learn Data Warehousing in 1 Day" is that it is small and can be completed in a day.

With this e-book, you will be enough knowledge to contribute and participate in a Data warehouse implementation project. The book covers upcoming and promising technologies like Data Lakes, Data Mart, ETL (Extract Load Transform) amongst others. Following are detailed topics included in the book Table Of Content Chapter 1: What Is Data Warehouse? 1. What is Data Warehouse? 2. Types of Data Warehouse 3. Who needs Data warehouse? 4. Why We Need Data Warehouse? 5. Data Warehouse Tools Chapter 2: Data Warehouse Architecture 1. Characteristics of Data warehouse 2. Data Warehouse Architectures 3. Datawarehouse Components 4. Query Tools Chapter 3: ETL Process 1. What is ETL? 2. Why do you need ETL? 3. ETL Process 4. ETL tools Chapter 4: ETL Vs ELT 1. What is ETL? 2. Difference between ETL vs. ELT Chapter 5: Data Modeling 1. What is Data Modelling? 2. Types of Data Models 3. Characteristics of a physical data model Chapter 6: OLAP 1. What is Online Analytical Processing? 2. Types of OLAP systems 3. Advantages and Disadvantages of OLAP Chapter 7: Multidimensional Olap (MOLAP) 1. What is MOLAP? 2. MOLAP Architecture 3. MOLAP Tools Chapter 8: OLAP Vs OLTP 1. What is the meaning of OLAP? 2. What is the meaning of OLTP? 3. Difference between OLTP and OLAP Chapter 9: Dimensional Modeling 1. What is Dimensional Model? 2. Elements of Dimensional Data Model 3. Attributes 4. Difference between Dimension table vs. Fact table 5. Steps of Dimensional Modelling 6. Rules for Dimensional Modelling Chapter 10: Star and Snowflake Schema 1. What is Multidimensional schemas? 2. What is a Star Schema? 3. What is a Snowflake Schema? 4. Difference between Start Schema and Snowflake Chapter 11: Data Mart 1. What is Data Mart? 2. Type of Data Mart 3. Steps in Implementing a Datamart Chapter 12: Data Mart Vs Data Warehouse 1. What is Data Warehouse? 2. What is Data Mart? 3. Differences between a Data Warehouse and a Data Mart Chapter 13: Data Lake 1. What is Data Lake? 2. Data Lake Architecture 3. Key Data Lake Concepts 4. Maturity stages of Data Lake Chapter 14: Data Lake Vs Data Warehouse 1. What is Data Warehouse? 2. What is Data Lake? 3. Key Difference between the Data Lake and Data Warehouse Chapter 15: What Is Business Intelligence? 1. What is Business Intelligence 2. Why is BI important? 3. How Business Intelligence systems are implemented? 4. Four types of BI users Chapter 16: Data Mining 1. What is Data Mining? 2. Types of Data 3. Data Mining Process 4. Modelling 5. Data Mining Techniques Chapter 17: Data Warehousing Vs Data Mining 1. What is Data warehouse? 2. What Is Data Mining? 3. Difference between Data mining and Data Warehousing? The Third Edition of this well-received

text analyses the fundamental concepts of data warehousing, data marts, and OLAP. The author discusses, in an easy-to-understand language, important topics such as data mining, how to build a data warehouse, and potential applications of data warehousing technology in government. Besides, the text compares and contrasts the currently available software tools used to design and develop data warehouses. While retaining the six existing case studies, it gives four new case studies: ? HARBOR, A Highly Available Data Warehouse ? A Typical Business Data Warehouse for a Trading Company ? Customer Data Warehouse for the World's First and Largest Online Bank in the United Kingdom ? A German Supermarket EDEKA's Data Warehouse The book, which is a blend of principles and real-life case studies, is intended as a text for students of B.Tech/M.Tech (Computer Science and Engineering), B.Tech/M.Tech (Information Technology), MBA, M.Sc. (Computer Science), M.Sc. (Information Technology), and MCA. It should also be of considerable utility and worth to software professionals and database practitioners. Data Warehousing and Data Mining is presented in a question-and-answer format following the examination pattern and covers all key topics in the syllabus. The book is designed to make learning fast and effective and is precise, up-to-date and will help students excel in their examinations. The book is part of the Express Learning is a series of books designed as quick reference guides to important undergraduate courses. The organized and accessible format of these books allows students to learn important concepts in an easy-to-understand, question-and-answer format. These portable learning tools have been designed as one-stop references for students to understand and master the subjects by themselves. This book constitutes the refereed proceedings of the 14th International Conference on Data Warehousing and Knowledge Discovery, DaWaK 2012 held in Vienna, Austria, in September 2012. The 36 revised full papers presented were carefully reviewed and selected from 99 submissions. The papers are organized in topical sections on data warehouse design methodologies, ETL methodologies and tools, multidimensional data processing and management, data warehouse and OLAP extensions, data warehouse performance and optimization, data mining and knowledge discovery techniques, data mining and knowledge discovery applications, pattern mining, data stream mining, data warehouse confidentiality and security, and distributed paradigms and algorithms. OLAP enables users to access information from multidimensional datawarehouses almost instantly, to view information in any way theylike, and to cleanly specify and carry out sophisticatedcalculations. Although many commercial OLAP

tools and products are now available, OLAP is still a difficult and complex technology to master. Substantially updated with expanded coverage of implementation methods for data storage, access, and calculation; also, new chapters added to combine OLAP with data warehouse, mining, and decision support tools. Teaches the best practices for building OLAP models that improve business and organizational decision-making, completely independent of commercial tools, using revised case studies. Companion Web site provides updates on OLAP standards and tools, code examples, and links to valuable resources. Online Analytical Processing (OLAP) has become an increasingly important and prevalent component of enterprise Decision Support Systems. OLAP is associated with a data model known as a Cube, a multi-dimensional representation that allows for the extraction and intuitive visualization of broad patterns and trends that would otherwise not be obvious to the user. One must note, however, that not all of the collected data should be universally accessible. Specifically, DW/OLAP systems almost always house confidential and sensitive data that must, by definition, be restricted to authorized users. In this book, we address this problem and provide a comprehensive end-to-end framework for OLAP security that is flexible, intuitive, and powerful. In short, the framework allows administrators to associate security policies with an intuitive conceptual model that maps directly to the model that users see. Restrictions then can be propagated transparently from users to all the hierarchical data. Finally, an automatic form of inference control is provided that is fast enough in practice to not affect query time. This exceptional work provides readers with an introduction to the state-of-the-art research on data warehouse design, with many references to more detailed sources. It offers a clear and a concise presentation of the major concepts and results in the subject area. Malinowski and Zimányi explain conventional data warehouse design in detail, and additionally address two innovative domains recently introduced to extend the capabilities of data warehouse systems: namely, the management of spatial and temporal information. Abstract: "As the amount of information is increasing all the time, information modelling and analysis have become essential areas in information management. Storing and retrieving data have earlier been the main functions in databases but the importance of deeper understanding of data has increased during the recent years. The nature of data has also become more complex. Therefore, powerful modelling methods are needed for the data. In addition, the methods have to be user-friendly since the users of data oriented applications are not often database-professionals. The

general aim of this work is to develop methods to make database design and management easier and more efficient for all users, both database professionals and people with no prior experience with databases. We have studied methods to support logical design of OLAP (On-Line-Analytical Processing) cubes. The methods give a good basis for implementing software tools that partly automate the logical design process. These methods are needed since it is commonly noticed that logical design of OLAP cubes is a complex process that requires good knowledge on both application area and databases. Good logical structure of an OLAP cube is important, because a bad design can lead, for example, to an extremely sparse cube and to such a need for storage space that is not possible to achieve in practice. As a solution, we give a method for estimating the structural sparsity of OLAP cubes and a normal form to reduce sparsity risks. Moreover, synthesis and decomposition algorithms for producing normalised OLAP cubes are developed. Hierarchical dimensions, which enable the user to analyse data on different levels of aggregation, are essential for OLAP. Hierarchies can arise from the attribute hierarchy (e.g. day, month, year) or from the relationship between the instances of two attributes (e.g. employee, manager). We study what kinds of hierarchy structures are desirable with respect to correct aggregations and efficient calculations. To represent logical OLAP schemata, a dependency-based modelling method has been developed. This method enables the user to describe concepts and their relationship to each other explicitly. The OLAP cube should be complete and minimal with respect to the user's queries. To define what data should be taken into account when constructing an OLAP cube, we give two methods based on query information. One applies the intensional concept theory and a query method based on it. The other uses MDX queries that the user poses against a base cube representing the contents of the data warehouse. If real queries are available, they can be used as input." Data warehouses and online analytical processing (OLAP) are emerging key technologies for enterprise decision support systems. They provide sophisticated technologies from data integration, data collection and retrieval, query optimization, and data analysis to advanced user interfaces. New research and technological achievements in the area of data warehousing are implemented in commercial database management systems, and organizations are developing data warehouse systems into their information system infrastructures. Data Warehouses and OLAP: Concepts, Architectures and Solutions covers a wide range of technical, technological, and research issues. It provides theoretical frameworks,

presents challenges and their possible solutions, and examines the latest empirical research findings in the area. It is a resource of possible solutions and technologies that can be applied when designing, implementing, and deploying a data warehouse, and assists in the dissemination of knowledge in this field. Most of modern enterprises, institutions, and organizations rely on knowledge-based management systems. In these systems, knowledge is gained from data analysis. Today, knowledge-based management systems include data warehouses as their core components. Data integrated in a data warehouse are analyzed by the so-called On-Line Analytical Processing (OLAP) applications designed to discover trends, patterns of behavior, and anomalies as well as finding dependencies between data. Massive amounts of integrated data and the complexity of integrated data coming from many different sources make data integration and processing challenging. *New Trends in Data Warehousing and Data Analysis* brings together the most recent research and practical achievements in the DW and OLAP technologies. It provides an up-to-date bibliography of published works and the resource of research achievements. Finally, the book assists in the dissemination of knowledge in the field of advanced DW and OLAP. The Naval Reserve Force has identified a need to pool the data from its many legacy database systems into a single useable data warehouse. The current system uses separate legacy databases and formatted reports to provide a manual decision process. Under the leadership of Rear Admiral John Totushek the Naval Reserve Force is driving many technological revolutions via the Leading Change initiative. One of the key goals of the Leading Change initiative is a strategic decision support tool. To support this goal Naval Reserve Force Assessment Division elected to find a project to provide a prototype data warehouse and Online Analytical Processing (OLAP) solution to the problem. The Naval Reserve Strategic Decision Support Tool (NaRSDAT) is the result. The NaRSDAT development of this thesis provides an in depth evaluation of the existing databases. It then provides an object oriented development approach to a relational data warehouse and a star schema development for data mining. NaRSDAT employs Microsoft Visual Basic Microsoft Access and Cognos PowerPlay to provide a complete data warehouse and OLAP solution. The NaRSDAT prototype will serve as the basis for a comprehensive knowledge management solution for the Naval Reserve Force. The only book to cover and compare Oracle's online analytic processing products With the acquisition of Hyperion Systems in 2007, Oracle finds itself owning the two most capable OLAP products on the market--Essbase and the OLAP Option to the

Oracle Database. Written by the most knowledgeable experts on both Essbase and Oracle OLAP, this Oracle Press guide explains how these products are similar and how they differ. Oracle Essbase & Oracle OLAP will help you architect the Oracle OLAP product that is most appropriate for your application, and build, tune, and maintain OLAP solutions. On-line analytical processing (OLAP) is an approach to information system technology which provides users with rapid retrieval of data from organizational databases and data warehouses. This text looks at the way OLAP works and its benefits to aid users in the public and private sectors. This research provides the study of integration between Location Based Service (LBS) and Online analytical Processing (OLAP). LBS are mobile services that has the capability to provide real time information based on user's location. Geographical Information System (GIS) has been the heart of LBS in order to provide all functionalities in LBS. In the knowledge discovery realm, Spatial Online Analytical Processing (SOLAP) integrates conventional OLAP with GIS data sets. This addition of GIS provides additional features such as better visualization which enhance decision making. With current trend in system development, it is possible to distribute the data available from these three systems (LBS, GIS, OLAP) in the web. The research explains critical issues in data integration such as data modeling, schema integration and query processing strategy. Semantic Web, a new emerging standard that has been used to manage all information on the internet has been adopted throughout the research. Introductory, theory-practice balanced text teaching the fundamentals of databases to advanced undergraduates or graduate students in information systems or computer science. Searching for Semantics: Data Mining, Reverse Engineering Stefano Spaccapietra Fred M aryanski Swiss Federal Institute of Technology University of Connecticut Lausanne, Switzerland Storrs, CT, USA REVIEW AND FUTURE DIRECTIONS In the last few years, database semantics research has turned sharply from a highly theoretical domain to one with more focus on practical aspects. The DS-7 Working Conference held in October 1997 in Leysin, Switzerland, demonstrated the more pragmatic orientation of the current generation of leading researchers. The papers presented at the meeting emphasized the two major areas: the discovery of semantics and semantic data modeling. The work in the latter category indicates that although object-oriented database management systems have emerged as commercially viable products, many fundamental modeling issues require further investigation. Today's object-oriented systems provide the capability to describe complex objects and include

techniques for mapping from a relational database to objects. However, we must further explore the expression of information regarding the dimensions of time and space. Semantic models possess the richness to describe systems containing spatial and temporal data. The challenge of incorporating these features in a manner that promotes efficient manipulation by the subject specialist still requires extensive development. The only book to cover and compare Oracle's online analytic processing products

With the acquisition of Hyperion Systems in 2007, Oracle finds itself owning the two most capable OLAP products on the market--Essbase and the OLAP Option to the Oracle Database. Written by the most knowledgeable experts on both Essbase and Oracle OLAP, this Oracle Press guide explains how these products are similar and how they differ. Oracle Essbase & Oracle OLAP will help you architect the Oracle OLAP product that is most appropriate for your application, and build, tune, and maintain OLAP solutions. The Multi-dimensional Data Modeling Toolkit represents over 15 years of hands-on experience developing multidimensional analytic applications for over a dozen companies in a variety of application areas. Written in a tutorial style, this book gives, in plain English, a step-by-step development of the defining principles of OLAP analysis through the lens of the programming language at the heart of Oracle's OLAP database option. You will find this book packed with examples, tricks and techniques, concrete illustrations of the programming elements needed to implement. The basics will all be there as well as advanced techniques that you can use to address the most demanding requirements. OLAP will be addressed as an analysis platform. You will learn how to make business intelligence applications smarter by upping the analytical octane. You will learn both the classic applications of OLAP analysis as well as more exotic approaches. You will learn where OLAP fits in among other analytical approaches such as statistics and data mining. So whether you are a developer wanting to learn Oracle's counterpart to Microsoft's MDX, or an analyst wanting to understand the quantitative possibilities of OLAP, The Multi-dimensional Data Modeling Toolkit will show you what you need to know to go from beginner to expert in the application of OLAP analytics with Oracle OLAP DML. The Skills You Need to Develop OLAP Solutions with SQL Server 2000 This one-of-a-kind book teaches you everything you need to know to use Microsoft's Analysis Services software to build, implement, and manage effective OLAP solutions. Expert advice and in-depth explanations combine to help you and your company take full advantage of the affordable power of SQL Server's

built-in OLAP functionality. Coverage Includes: Analyzing large volumes of data effectively with Analysis Services Architecting and designing data analysis applications Querying OLAP data using MDX Programming applications using ADO/MD Managing Analysis Services servers with DSO Building data mining solutions with Analysis Services Using English Query for natural language querying of OLAP data Choosing appropriate client tools for exploring OLAP data Using the PivotTable Service for client-side data analysis Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. Systems for Online Transaction Processing (OLTP) and Online Analytical Processing (OLAP) are currently separate. The potential of the latest technologies and changes in operational and analytical applications over the last decade have given rise to the unification of these systems, which can be of benefit for both workloads. Research and industry have reacted and prototypes of hybrid database systems are now appearing. Benchmarks are the standard method for evaluating, comparing and supporting the development of new database systems. Because of the separation of OLTP and OLAP systems, existing benchmarks are only focused on one or the other. With the rise of hybrid database systems, benchmarks to assess these systems will be needed as well. Based on the examination of existing benchmarks, a new benchmark for hybrid database systems is introduced in this book. It is furthermore used to determine the effect of adding OLAP to an OLTP workload and is applied to analyze the impact of typically used optimizations in the historically separate OLTP and OLAP domains in mixed-workload scenarios. Shows users and developers how to use MDX to effectively to provide relevant business information. This book constitutes the thoroughly refereed post-proceedings of the satellite events of the 9th International Conference on the Semantic Web, ESWC 2012, held in Heraklion, Crete, Greece, in May 2012. This volume contains 49 full papers and 13 short papers describing the posters and demonstrations. (SUGGESTION/ HELP needed). "The authors merge their deep experience in OLAP to produce a roadmap to success with Microsoft SQL Server OLAP Services." -Bill Baker, Microsoft Corporation Microsoft(r) OLAP Solutions OLAP enables users to create, change, and access information from multi-dimensional data warehouses almost instantaneously. Microsoft has unleashed the power of OLAP in one of its most popular products, SQL Server 7, now distributed with its OLAP Services component. This guide to mastering Microsoft OLAP Services begins with a practical introduction to OLAP server concepts and architecture. It then progresses by

logical, skill-building steps through a range of crucial topics in maintenance, database optimization, and advanced database design. The authors include in-depth case studies illustrating how to build OLAP applications, as well as instructions on how to construct working OLAP applications, including a healthcare benefits analysis application and a grocery store frequent shopper analysis application. Topics covered in detail include: * The storage and operational architecture of Microsoft OLAP server * Using the MDX language with Microsoft OLAP server * Using Microsoft OLAP server to access and update data * Specifying calculations * Optimizing server performance * Securing the server On the CD-ROM you'll find: * All the sample applications and databases described in the book * Additional software for working with Microsoft OLAP server Wiley Computer Publishing Timely. Practical. Reliable. Visit our Web site at www.wiley.com/compbooks/ This pocket guide presents the most crucial information about SQL in a compact and easily accessible format, covering the four commonly used SQL variants--Oracle, IBM DB2, Microsoft SQL Server, and MySQL. Topics include: Data manipulation statements (SELECT, DELETE, INSERT, UPDATE, MERGE) and transaction control statements (START TRANSACTION, SAVEPOINT, COMMIT, ROLLBACK). Common SQL functions (date, numeric, math, trigonometric, string, conversion, aggregate) Such topics as literals, NULLs, CASE expressions, datatype conversion, regular expressions, grouping and summarizing data, joining tables, and writing queries (hierarchical, recursive, union, flashback) and subqueries. Instead of presenting complex and confusing syntax diagrams, the book teaches by example, showing the SQL statements and options that readers are most like to use. All example data is available on the O'Reilly web site. "If you need fast, accurate SQL information, with examples for multiple database engines, be sure to check out this book."--Chris Kempster, Senior DBA and author of SQL Server 2000 for the Oracle DBA, www.chriskempster.com With this textbook, Vaisman and Zimányi deliver excellent coverage of data warehousing and business intelligence technologies ranging from the most basic principles to recent findings and applications. To this end, their work is structured into three parts. Part I describes "Fundamental Concepts" including multi-dimensional models; conceptual and logical data warehouse design and MDX and SQL/OLAP. Subsequently, Part II details "Implementation and Deployment," which includes physical data warehouse design; data extraction, transformation, and loading (ETL) and data analytics. Lastly, Part III covers "Advanced Topics" such as spatial data warehouses; trajectory data

warehouses; semantic technologies in data warehouses and novel technologies like Map Reduce, column-store databases and in-memory databases. As a key characteristic of the book, most of the topics are presented and illustrated using application tools. Specifically, a case study based on the well-known Northwind database illustrates how the concepts presented in the book can be implemented using Microsoft Analysis Services and Pentaho Business Analytics. All chapters are summarized using review questions and exercises to support comprehensive student learning. Supplemental material to assist instructors using this book as a course text is available at <http://cs.ulb.ac.be/DWSDIbook/>, including electronic versions of the figures, solutions to all exercises, and a set of slides accompanying each chapter. Overall, students, practitioners and researchers alike will find this book the most comprehensive reference work on data warehouses, with key topics described in a clear and educational style. This book addresses the privacy issue of On-Line Analytic Processing (OLAP) systems. OLAP systems usually need to meet two conflicting goals. First, the sensitive data stored in underlying data warehouses must be kept secret. Second, analytical queries about the data must be allowed for decision support purposes. The main challenge is that sensitive data can be inferred from answers to seemingly innocent aggregations of the data. This volume reviews a series of methods that can precisely answer data cube-style OLAP, regarding sensitive data while provably preventing adversaries from inferring data. Joe Celko's *Analytics and OLAP in SQL* is the first book that teaches what SQL programmers need in order to successfully make the transition from On-Line Transaction Processing (OLTP) systems into the world of On-Line Analytical Processing (OLAP). This book is not an in-depth look at particular subjects, but an overview of many subjects that will give the working RDBMS programmers a map of the terra incognita they will face — if they want to grow. It contains expert advice from a noted SQL authority and award-winning columnist, who has given ten years of service to the ANSI SQL standards committee and many more years of dependable help to readers of online forums. It offers real-world insights and lots of practical examples. It covers the OLAP extensions in SQL-99; ETL tools, OLAP features supported in DBMSs, other query tools, simple reports, and statistical software. This book is ideal for experienced SQL programmers who have worked with OLTP systems who need to learn techniques—and even some tricks—that they can use in an OLAP situation. Expert advice from a noted SQL authority and award-winning columnist, who has given ten years of service to the ANSI

SQL standards committee and many more years of dependable help to readers of online forums First book that teaches what SQL programmers need in order to successfully make the transition from transactional systems (OLTP) into the world of data warehouse data and OLAP Offers real-world insights and lots of practical examples Covers the OLAP extensions in SQL-99; ETL tools, OLAP features supported in DBMSs, other query tools, simple reports, and statistical software A guide to data warehousing covers such topics as its basic characteristics and design, data migration, data marts, planning a data warehouse project, and operating a data warehouse. There's so much information inside your database, but how do you get at it and use it successfully? With this guide to Online Analytical Processing (OLAP) tools, you can forego programming and custom data warehousing and tap into the power of Microsoft SQL Server technology. You can build your own data warehouse using the Enterprise Manager tool in SQL Server and pull out what you need using SQL Server Query Analyzer and English Query tools. What's more, Excel 2000, in tandem with these tools, serves up your data in multidimensional, mission-specific reports. The CD-ROM includes extensive sample databases and an evaluation edition of Microsoft SQL Server 7.0. The purpose of this book is to document the methodology and chronology of work activity used by the author to successfully implement a Data Warehouse. Each of the eleven steps of the methodology is reviewed in the book, often using actual working documents as examples. The book contains lessons learned (both good and bad) as well as measures of success for each step. An essential aspect of DW project implementation (and other IT projects as well) is using established business practices to manage development and implementation. Discussion of use of these "due diligence" practices in Step 1 establishes the foundation for starting the DW project with the proper levels of management oversight. Step 2 presents examples of business models necessary for the DW developer to understand the needs of the business that the DW will serve. Other DW books describe the data modeling process but neglect to provide modeling instruction and actual examples to insure that the DW is properly aligned with business needs. An elegant data warehouse that doesn't meet the needs of the business is wasted effort. Step 3 documents and displays the level of detail needed to define CSF's (Critical Success Factors) and KPI's (Key Performance Indicators). If calculations for these important metrics are not defined in detail, and consensus to use them is not reached, then again, the most elegant data warehouse implementation is a wasted effort. In addition, developing and documenting

functional requirements is essential in identifying legacy system reporting deficiencies. Step 4 describes how to access and display field level information on the iSeries platform. Actual shots of the resulting screens are shown. Step 5 presents the functional contents of an RFP for a Data Warehousing tool-set. Step 6 presents the progression of work required to build a data warehouse. Step 6 also:

- Describes and displays a hybrid dimensional to flat file data model that may be, in reality, the best data organizational model for a typical data warehouse. Also, a table is included showing examples of data file field cryptic names and their corresponding metadata name.
- &nb Education has become very important in today's era. Every year number of students pursuing Higher Education is increasing and United State of America gives these students a good opportunity to pursue their dreams. Students are attracted to America as it provides best education in the world, but there is little they know about the universities, ranking, living condition in America. To research about universities students perform number of ways as researching on Google, posting questions on forums, getting help from consultancy, asking friends, seniors, family. These methods are slow and unreliable. A friend can give biased opinion about a university if he has been there or simply because he does not know other universities well. A consultancy can also give biased opinion regarding a university if they have a tie up with that university. Other sources like Google take long time to research and you only get partial information. There are websites which provide similar functionalities such as www.internationalstudent.com and US news, but they don't have detailed information as orientation of university, acceptance rate and surrounding conditions of university. This motivated me to provide these international students a way to research about university's academic & surrounding condition and make the decision accordingly. This project is implemented using different techniques of data mining and data warehouse. It is based on datasets such as university, crime, transit, rent per room and weather which are collected from government official websites. Some research was needed in order to complete the dataset and start the project. The method used for data mining are data preprocessing, cleaning data and for data warehouse, the methods are data integration, OLAP operation. Using WEKA tool, a machine learning tool which is used for data mining and knowledge discovery, the data was cleaned, unused fields were removed and dealt with missing attributes. Other than this, the missing values were also manually researched and entered into datasets. To integrate all the datasets, snowflake database schema was used creating fact table and dimension tables. This was

done using cube query of OLAP operation. This project is implemented using popular tier of LAMP (Linux Apache MySQL and PHP), data integration and OLAP technology which made application more dynamic and interactive. In this project, user will be able to search universities on the basis of state, their GRE or TOEFL score, orientation of university such as teaching or research and degree level. After applying filters, result page will display all the universities satisfying search criteria where they can add their favorite universities to wish list by logging in to application. The compare page shows all universities they have added to wish list. On compare page, user can compare universities by academic standing such as tuition fee, orientation, highest degree level and surrounding conditions such as yearly weather report, crime rate, transit facilities and rent per room by clicking on the row so that the popup will display all this information. There is Visas page where user can view non-immigrant visa types and information regarding that. Finally, there is Forums page for students to posts questions for fellow students. This project is enterprise level application which will be applicable for all universities in the US but due to time limitation, the focus is on California universities. The future work for this project can be extended to other states. Users of this project will be international students applying for universities in the US. The objective of this web application is to provide international students a guide to research about universities according to the degree level, tuition fees, ranking, climate conditions of area, average rent for rental houses, regional transits and crime statistics near the university area. Online Analytical Processing (OLAP) is a database paradigm that supports the rich analysis of multi-dimensional data. While current OLAP tools are primarily constructed as extensions to conventional relational databases, the unique modeling and processing requirements of OLAP systems often make for a relatively awkward fit with RDBM systems in general, and their embedded string-based query languages in particular. In this thesis, we discuss the design, implementation, and evaluation of a robust multi-dimensional OLAP server. In fact, we focus on several distinct but related themes. To begin, we investigate the integration of an open source embedded storage engine with our own OLAP-specific indexing and access methods. We then present a comprehensive OLAP query algebra that ultimately allows developers to create expressive OLAP queries in native client languages such as Java. By utilizing a formal algebraic model, we are able to support an intuitive Object Oriented query API, as well as a powerful query optimization and execution engine. The thesis describes both the optimization methodology and

the related algorithms for the efficient execution of the associated query plans. The end result of our research is a comprehensive OLAP DBMS prototype that clearly demonstrates new opportunities for improving the accessibility, functionality, and performance of current OLAP database management systems.

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