

# Advanced DBMS notes

## Unit 1

### What is Database

The database is a collection of inter-related data which is used to retrieve, insert and delete the data efficiently. It is also used to organize the data in the form of a table, schema, views, and reports, etc.

Using the database, you can easily retrieve, insert, and delete the information.

### Database Management System

- Database management system is a software which is used to manage the database. For example: **MySQL, Oracle**, etc are a very popular commercial database which is used in different applications.
- DBMS provides an interface to perform various operations like database creation, storing data in it, updating data, creating a table in the database and a lot more.
- It provides protection and security to the database. In the case of multiple users, it also maintains data consistency.

### Advantages of DBMS

- **Controls database redundancy:** It can control data redundancy because it stores all the data in one single database file and that recorded data is placed in the database.
- **Data sharing:** In DBMS, the authorized users of an organization can share the data among multiple users.
- **Easily Maintenance:** It can be easily maintainable due to the centralized nature of the database system.
- **Reduce time:** It reduces development time and maintenance need.
- **Backup:** It provides backup and recovery subsystems which create automatic backup of data from **hardware** and **software** failures and restores the data if required.

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### **Advanced Information Systems Engineering**

Anne Persson, Janis Stirna, 2004-08-18 th CAiSE 2004 was the 16 in the series of International Conferences on Advanced Information Systems Engineering In the year 2004 the conference was hosted by the Faculty of Computer Science and Information Technology Riga Technical University Latvia Since the late 1980s the CAiSE conferences have provided a forum for the presentation and exchange of research results and practical experiences within the field of Information Systems Engineering The conference theme of CAiSE 2004 was Knowledge and Model Driven Information Systems Engineering for Networked Organizations Modern businesses and IT systems are facing an ever more complex environment characterized by openness variety and change Organizations are coming less self sufficient and increasingly dependent on business partners

and other actors These trends call for openness of business as well as IT systems i e the ability to connect and interoperate with other systems Furthermore organizations are experiencing ever more variety in their business in all conceivable dimensions The different competencies required by the workforce are multiplying In the same way the variety in technology is overwhelming with a multitude of languages platforms devices standards and products Moreover organizations need to manage an environment that is constantly changing and where lead times product life cycles and partner relationships are shortening The demand of having to constantly adapt IT to changing technologies and business practices has resulted in the birth of new ideas which may have a profound impact on the information systems engineering practices in future years such as autonomic computing component and services marketplaces and dynamically generated software

**Current Trends in Database Technology - EDBT 2004 Workshops** Wolfgang Lindner, Marco Mesiti, Can Türker, Yannis Tzitzikas, Athena Vakali, 2004-11-18 This volume comprises papers from the following five workshops that were part of the complete program for the International Conference on Extending Database Technology EDBT held in Heraklion Greece March 2004 ICDE EDBT Joint Ph D Workshop PhD Database Technologies for Handling XML information on the Web DataX Pervasive Information Management PIM Peer to Peer Computing and Databases P2P DB Clustering Information Over the Web ClustWeb Together the five workshops featured 61 high quality papers selected from approximately 180 submissions It was therefore difficult to decide on the papers that were to be accepted for presentation We believe that the accepted papers substantially contribute to their particular fields of research The workshops were an excellent basis for intense and highly fruitful discussions The quality and quantity of papers show that the areas of interest for the workshops are highly active A large number of excellent researchers are working on the aforementioned fields producing research output that is not only of interest for other researchers but also for industry The organizers and participants of the workshops were highly satisfied with the output The high quality of the presenters and workshop participants contributed to the success of each workshop The amazing environment of Heraklion and the location of the EDBT conference also contributed to the overall success Last but not least our sincere thanks to the conference organizers the organizing team was always willing to help and if there were things that did not work assistance was quickly available

**Sustainable Construction in the Era of the Fourth Industrial Revolution** Clinton Aigbavboa, Benita Zulch, Wellington Thwala, 2025-07-26 Proceedings of the 16th International Conference on Applied Human Factors and Ergonomics and the Affiliated Conferences Orlando Florida USA 26-30 July 2025 *Advanced Information Systems Engineering*, 2004 **A Rigorous Semantics for BPMN 2.0 Process Diagrams** Felix Kossak, Christa Illibauer, Verena Geist, Jan Kubovy, Christine Natschläger, Thomas Ziebermayr, Theodorich Kopetzky, Bernhard Freudenthaler, Klaus-Dieter Schewe, 2015-02-04 This book provides the most complete formal specification of the semantics of the Business Process Model and Notation 2.0 standard BPMN available to date in a style that is easily understandable for a wide range of readers not only for experts in formal methods but e.g. also for developers of modeling tools software architects

or graduate students specializing in business process management BPMN issued by the Object Management Group is a widely used standard for business process modeling However major drawbacks of BPMN include its limited support for organizational modeling its only implicit expression of modalities and its lack of integrated user interaction and data modeling Further in many cases the syntactical and in particular semantic definitions of BPMN are inaccurate incomplete or inconsistent The book addresses concrete issues concerning the execution semantics of business processes and provides a formal definition of BPMN process diagrams which can serve as a sound basis for further extensions i e in the form of horizontal refinements of the core language To this end the Abstract State Machine ASMs method is used to formalize the semantics of BPMN ASMs have demonstrated their value in various domains e g specifying the semantics of programming or modeling languages verifying the specification of the Java Virtual Machine or formalizing the ITIL change management process This kind of improvement promotes more consistency in the interpretation of comprehensive models as well as real exchangeability of models between different tools In the outlook at the end of the book the authors conclude with proposing extensions that address actor modeling including an intuitive way to denote permissions and obligations integration of user centric views a refined communication concept and data integration

**Service-Oriented Computing -- ICSOC 2003** Maria E. Orlowska,2003-12-03 This book constitutes the refereed proceedings of the First International Conference on Service Oriented Computing ICSOC 2003 held in Trento Italy in December 2003 The 38 revised full papers presented were carefully reviewed and selected from 181 submissions The papers are organized in topical sections on service description service composition quality of service models service personalization service semantics business processes and transactions business collaborations service request and coordination service security and reliability infrastructure for service delivery service P2P and grid computing service and mobile computing and service computing and applications

**Collaborative Cyber Threat Intelligence** Florian Skopik,2017-10-16 Threat intelligence is a surprisingly complex topic that goes far beyond the obvious technical challenges of collecting modelling and sharing technical indicators Most books in this area focus mainly on technical measures to harden a system based on threat intel data and limit their scope to single organizations only This book provides a unique angle on the topic of national cyber threat intelligence and security information sharing It also provides a clear view on ongoing works in research laboratories world wide in order to address current security concerns at national level It allows practitioners to learn about upcoming trends researchers to share current results and decision makers to prepare for future developments

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set up deploy and maintain a Solaris system Every aspect of Solaris system administration is explained in full detail including configuration networking performance security virtualization and cloud computing Oracle Solaris 11 System Administration Handbook features up to date details on new technologies such as OpenStack cloud support Unified Archives provisioning Kernel Zone virtualization and software defined networking You will learn the keys to optimizing Oracle Solaris 11 2 instances with the hands on technical instruction and shared best practices contained in this authoritative volume from Oracle Press Real world case studies provide detailed scenarios and ready to deploy solutions Tips and best practices for administration are included throughout Covers brand new configuration tools and techniques

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