

Chapter 1 : Database Systems

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Database Approach

- Data is raw, unprocessed facts, have no meaning
 - Considered building blocks of information
 - Raw data must be properly formatted for storage, processing and presentation
- Information is data that has been processed to reveal meaning
 - Processing data is as simple as organizing data to reveal its meaning or as complex as making forecasts or drawing inferences using statistical modeling
 - Accurate, relevant and timely information is key to good decision making
 - Good decision making is key to survival in the global environment
 - Processing of data into information, generates 'actionable' knowledge
- Data Management : discipline that focuses on the proper generation, storage and retrieval of data (addition, deletion, modification, listing)
 - Core activity of any business
 - Database : shared, integrated computer structure that houses a collection of related data
 - Contains :
 - End user data : raw facts
 - Metadata : data about the data characteristics and relationships
 - Provides a description of data characteristics and relationships in data
 - Compliments and expands value of data
- Database management system : collection of programs that manage the database structure and controls access to the data stored in the database
 - 'Very well organized electronic filing cabinet', where the powerful software (DBMS) helps manage the cabinet's contents
 - Advantages :
 - Makes data management more efficient and effective
 - Promotes integrated view of organization's operations
 - Probability of data inconsistency is greatly reduced
 - Possible to produce quick to ad hoc queries (spur of the moment queries)
 - Improved data sharing - end-user access to more/better managed data
 - Improved data security - provides a framework, for security enforcement
 - Better data integration - wider access, integrated view of organization's operations
 - Minimized data inconsistency - data inconsistency is where different versions of the same data yield inconsistent results.
 - Improved data access - quick access to ad hoc queries
 - Improved decision making - improved access
 - Increased end-user productivity - through the availability of data, information is usable, enables user to make quick, informed decisions



- Data Quality and governance :
 - Data quality : comprehensive approach to ensuring the accuracy, validity, and timeliness of data
 - Uniqueness : is the data unique and there is no redundancy in the database
 - Unambiguous : is the meaning of the data clear
 - Data governance : describes a strategy or methodology defined by an organisation to safeguard data quality
 - Organization's produce their own series of policies and procedures for managing availability, usability, quality, integrity and security of data within an organisation
- Types of databases :
 - Single user : only 1 user at a time
 - Desktop : single-user database running on a personal computer
 - Multi-user : supports multiple users at the same time
 - Workgroup : multi-user database that supports a small group of users or a single department
 - Enterprise : multi-user database that supports a large group of users or an entire organisation

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Joel Murach, Anne Boehm



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Database Design for Smarties Robert J. Muller,1999-03-08 Craft the Right Design Using UML Whether building a relational object relational or object oriented database database developers are increasingly relying on an object oriented design approach as the best way to meet user needs and performance criteria This book teaches you how to use the Unified Modeling Language the official standard of the Object Management Group to develop and implement the best possible design for your database Inside the author leads you step by step through the design process from requirements analysis to schema generation You ll learn to express stakeholder needs in UML use cases and actor diagrams to translate UML entities into

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Business Process Driven Database Design with Oracle PL/SQL (Edition II) Rajeev Kaula,2021-03-12

Business Process driven Database Design with Oracle PL SQL Edition II extends the previous edition with updated content along with review questions and problem solving exercises A new database has been added to provide more problem solving skills The textbook embraces a fresh approach to database design that is rooted in the concept of business process Such a database design approach ensures a more robust and integrated database structure that is more closely aligned with business goals and objectives The textbook extends the understanding of database beyond standalone SQL through the integration of business logic with database design thereby enabling better support for enterprise applications The incorporation of business logic facilitates the threading of SQL with logic constructs that provide a richer understanding of database manipulation and utilization This book is for anyone beginner student or professional who desires to understand database design in a way that is more business oriented It can be used as a textbook in a level 1 or level 2 database design course The book covers essential concepts of business process modeling with business rules conceptual modeling with ER diagrams relational model with SQL and Oracle PL SQL language to ensure proper implementation of business logic The topics are explained in a simplified way through tutorials and numerous examples for a reader to quickly grasp the material followed by problem solving exercises It is written in a hands on style for anyone to learn the basics of database design The book also provides the SQL and PL SQL source for anyone to install the book databases and practice examples to gain an understanding of various concepts Upon completion readers will have learned the art of database design and have the skills to express it through SQL and PL SQL

Database Principles Carlos Coronel,Steven A. Morris,Peter Rob,2015

Database Application Development and Design Michael V. Mannino,2001 CD ROM contains ER Assistant data modeling tool which can be used to draw and convert ERDs

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web la santé du chien est fortement liée à son alimentation en plus de lui apporter l énergie et les nutriments nécessaires au fonctionnement normal de son organisme elle contribue à prévenir de nombreuses pathologies et à gérer des troubles déjà installés qui vont des problèmes articulaires aux problèmes de poids

alimentation chien nos conseils pour nourrir son chien wamiz - Apr 28 2023

web tout ce qu il faut savoir sur l alimentation de votre chien découvrez nos conseils d experts pour gérer efficacement son alimentation en fonction de son âge de sa taille de son poids de sa race et bien plus encore assurez vous de lui offrir une alimentation adaptée pour favoriser sa santé et son bien être

tout sur les besoins nutritionnels et l alimentation du chien hill s - Aug 21 2022

web le chien a besoin de différentes catégories de nutriments dans son alimentation protéines lipides glucides vitamines minéraux et eau le fait de choisir une alimentation équilibrée incluant ces nutriments aidera le jeune chien à grandir et le chien âgé à

alimentation du chien magazine zooplus - Nov 23 2022

web que vous souhaitiez de la nourriture en boîte ou des croquettes pour votre chien de la nourriture pour chiot ou pour chien en surpoids de marques comme terra canis royal canin hill s ou de marques disponibles exclusivement chez zooplus

comme rocco ou lukullus vous aurez l'embarras du choix pour trouver la meilleure alimentation de votre

alimentation du chien principes et conseils de vétérinaires - Dec 25 2022

web alimentation du chien pour préserver la santé de votre chien il est primordial de lui donner une nourriture équilibrée et de qualité nos conseils pour choisir les bons aliments maison ou industriels les bonnes quantités et prévenir l'obésité et

alimentation du chien conseils véto en photos catedog - Jan 26 2023

web alimentation du chien découvrez des conseils vétérinaires illustrés et des informations importantes sur l'alimentation de votre chien attention chez le chien en tant que facteur extérieur introduit dans l'organisme la nourriture est susceptible d'être bénéfique ou de nuire comme chez l'être humain

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nourriture du chien principes ooreka - Mar 16 2022

web la nourriture du chien n'est pas qu'une question de choix parmi les innombrables propositions commerciales la bonne alimentation de votre animal nécessite de bien connaître également ses besoins et spécificités vous pourrez ainsi mieux choisir entre les croquettes la pâtée la nourriture maison

alimentation du chien fait maison conseils vétérinaires - Feb 12 2022

web l'alimentation maison prévient l'obésité chez le chien du fait que la ration ménagère est riche en eau elle est bénéfique pour le chien car elle favorise la satiété en effet les aliments riches en eau ont tendance à avoir un volume plus important sans apporter un excès de calories

petit récapitulatif sur l'alimentation du chien - Oct 23 2022

web jul 3 2017 le chien accepte de manger tous les jours le même aliment et c'est meilleur pour sa santé surveiller le poids de son animal c'est veiller sur sa santé un chien obèse est un malade en puissance pour lequel il est temps de demander l'avis du vétérinaire et de passer à une alimentation allégée avec un volume suffisant pour le rassasier

que mange un chien alimentation du chien planeteanimal com - Jun 30 2023

web apr 3 2023 le pourcentage nécessaire de chaque nutriment est différent comme nous le verrons à continuation protéines c'est le principal ingrédient de l'alimentation d'un chien raison pour laquelle vous devriez toujours en céréales le principal céréale inclus les croquettes ou les alimentations

l'alimentation du chien conseils pour alimenter son chien - Sep 02 2023

web l'alimentation du chiot type d'aliments quantité conseils donner à son chien une alimentation de qualité qui lui apporte

les vitamines minéraux et autres nutriments essentiels au bon fonctionnement de son organisme est essentiel quel que soit son âge