

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



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