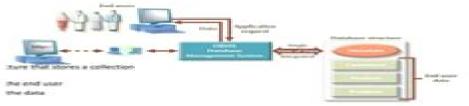
#### Chapter 1: Database Systems

Sunday, March 5, 2023 12:39 PM

#### 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 interferences using statistical modelling
  - 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 inconsistently 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 guick, 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 :
  - o 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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