

## **Database Users**

- Two groups of users
  - Actors on the Scene
    - Those who actually use and control the database content, and those who design, develop and maintain database applications
  - Workers behind the Scene
    - Those who design and develop the DBMS software and related tools, and the computer systems operators

## Database Users - Actors on the Scene

#### **Database administrators:**

- Responsible for authorizing access to the database
- For coordinating and monitoring database use
- Acquiring software and hardware resources, controlling its use and monitoring efficiency of operations

## Database Users – Actors on the Scene

### **Database Designers:**

- Responsible to define the content, the structure, the constraints, and functions or transactions against the database
- They must communicate with the end-users and understand their needs

## Database Users – Actors on the Scene

### **End Users**

- They use the data for queries, reports and some update the database content.
- End-users can be categorized into:
  - Casual: access database occasionally when needed
  - Naïve or Parametric: they make up a large section of the end-user population.
  - They use previously well-defined functions in the form of "canned transactions" against the database.

#### Examples:

- Users of Mobile Apps
- Bank-tellers or reservation clerks are parametric users who do this
  activity for an entire shift of operations.
- Social Media Users post and read information from those sites

# Database Users - Actors on the Scene

### **End Users**

## Sophisticated:

- These include business analysts, scientists, engineers, others thoroughly familiar with the system capabilities.
- Many use tools in the form of software packages that work closely with the stored database.

#### Stand-alone:

 Mostly maintain personal databases using ready-to-use packaged applications.

### **Examples:**

- user of a tax program that creates its own internal database.
- user that maintains a database of personal photos and videos.

# Database Users – Actors on the Scene

- System Analysts and Application Developers
  - System Analysts
    - Understand the user requirements of naïve and sophisticated users
    - Design applications including canned transactions to meet those requirements.
  - Application Programmers
    - Implement the specifications developed by analysts
    - Test and debug them before deployment.
  - **Business Analysts** 
    - Analyze vast amounts of business data and real-time data ('Big Data') for better decision making related to planning, advertising, marketing etc.