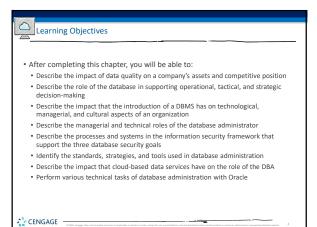
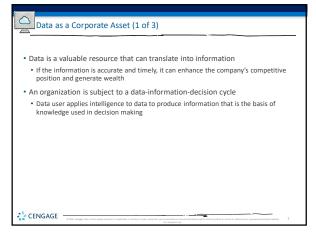
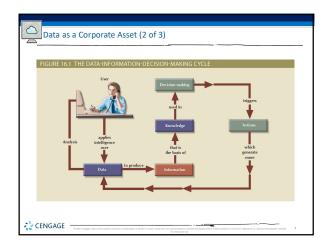
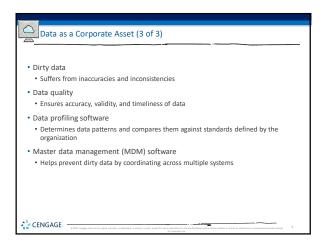


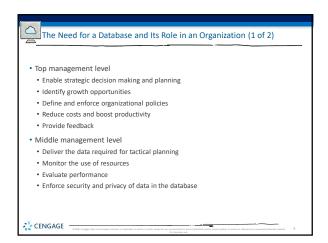
Chapter 16 Database Administration and Security



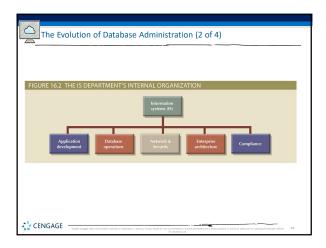


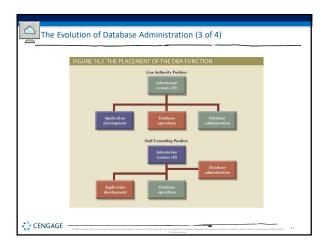


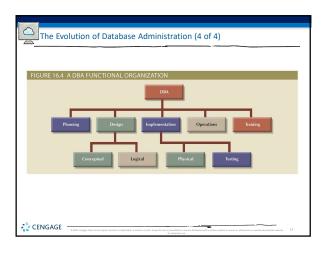




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The Need for a Database and Its Role in an Organization (2 of 2)	
a Operational management level	
Operational management level Represent and support company operations	
Produce query results within specified performance levels	
Enhance the company's short-term operations	
Create query results within specified performance levels	
Enhance the company's short-term operations	
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Sr dassen up.	
Introduction of a Database: Special Considerations	
Technological aspect	
Selecting, installing, configuring, and monitoring the DBMS to ensure that it operates	-
efficiently	
Managerial aspect	
Careful planning to create an appropriate organizational structure	
Cultural aspect	
Listening to people's concerns about the system and explaining its uses and benefits	-
	-
all crucacs	
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The Evolution of Database Administration (1 of 4)	
The Evolution of Database Auministration (1 of 4)	
Information systems (IS) department	
Provides end users with data management support and solutions for information	
needs	
Database administrator	
Responsible for control of the centralized and shared database	
Systems administrator	
General coordinator of all DBAs	
Data administrator (DA) or information resource manager (IRM)	
Usually reports directly to top management; has a higher degree of responsibility and when the DDA	
authority than the DBA	
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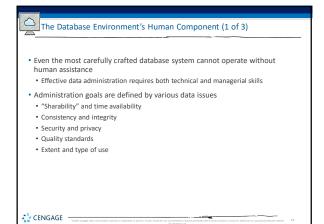
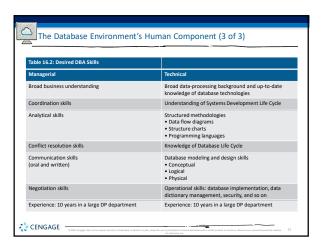
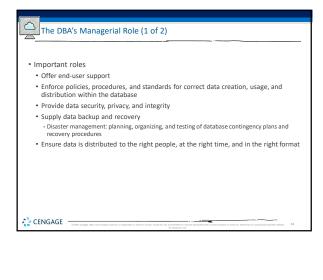
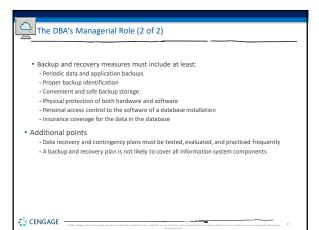
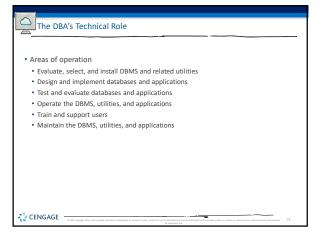


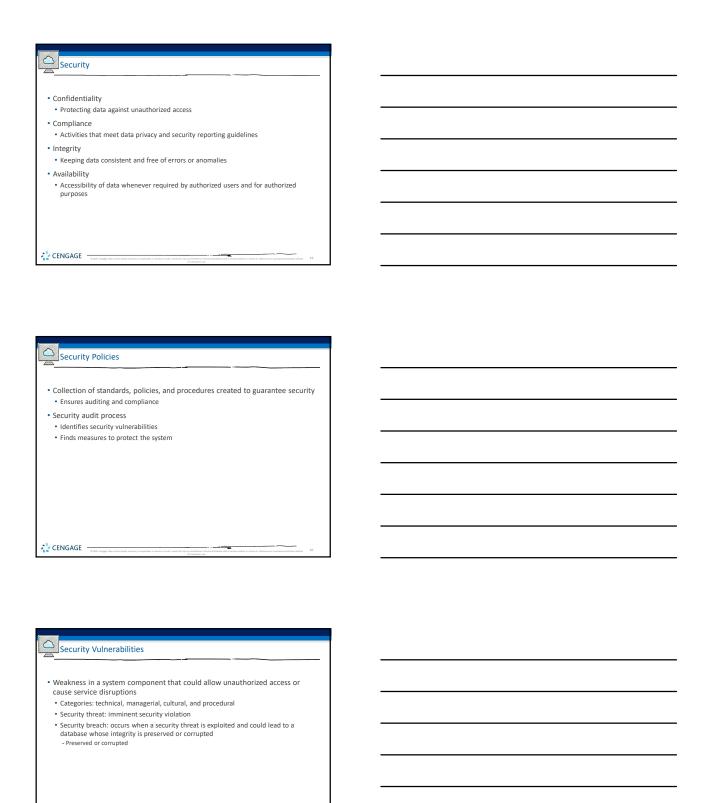
Table 16.1: Contrasting DA and DBA Activities and Characteristics	
Data Administrator (DA)	Database Administrator (DBA)
Performs strategic planning	Controls and supervises
Sets long-term goals	Executes plans to reach goals
Sets policies and standards	Enforces policies and procedures Enforces programming standards
lob is broad in scope	Job is narrow in scope
Focuses on the long term	Focuses on the short term (daily operations)
Has a managerial orientation	Has a technical orientation
Is DBMS-independent	Is DBMS-specific



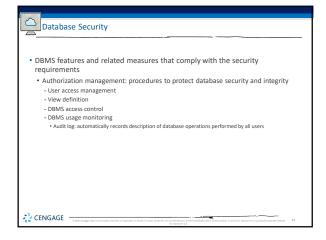


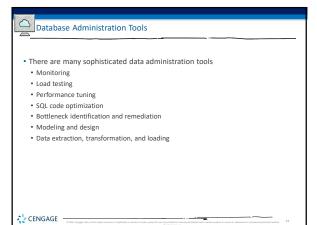


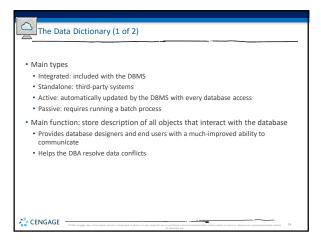




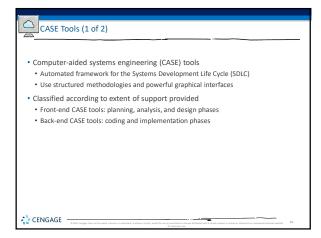
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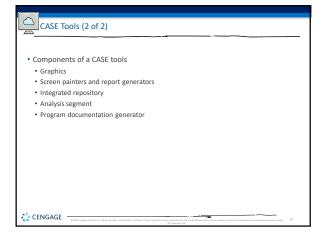


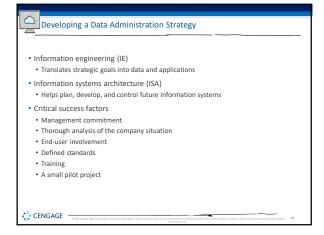


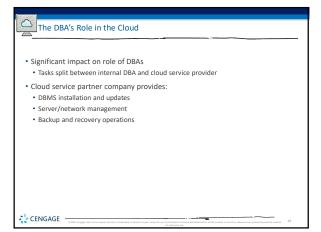


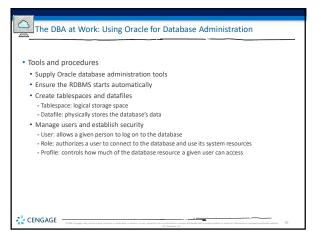
The Data Dictionary (2 of 2) Key element of information resource management Can be described as the information resource dictionary Metadata is the basis for monitoring database use and for assigning access rights to users Information stored in the data dictionary is usually based on a relational table format, thus enabling the DBA to query the database with SQL commands DBA uses data dictionary to support data analysis and design







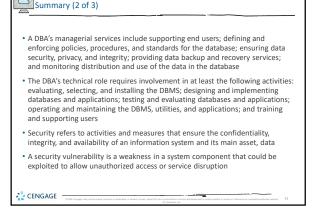




Customizing the Database Initialization Parameters • Fine-tuning a database is an important task that usually requires modification of parameters • Initialization parameters reserve resources used by the database at run-time • Restart may be required after modifying parameters database • The DBA is responsible for a wide range of tasks • Quality and completeness of administration tools go a long way toward making the DBA's job easier • The DBA must become familiar with the tools and technical details of the RDBMS to perform tasks properly and efficiently

Data management is a critical activity for any organization, so data must be treated as a corporate asset Data quality is a comprehensive approach to ensure the accuracy, validity, and timeliness of data The DBMS is the most commonly used tool for corporate data management The database administrator (DBA) is responsible for managing the corporate database The DA and DBA functions tend to overlap

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Summary (3 of 3)
The development of a data administration strategy is closely related to the
company's mission and objectives
 To help translate strategic plans into operational plans, the DBA has access to an arsenal of database administration tools, including a data dictionary and computer-aided systems engineering (CASE) tools
With the introduction of reliable cloud-based data services, the role of the DBA has expanded beyond corporate walls
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