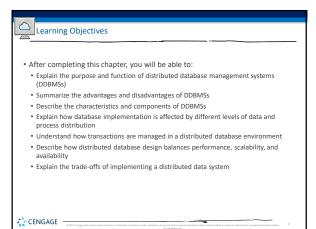
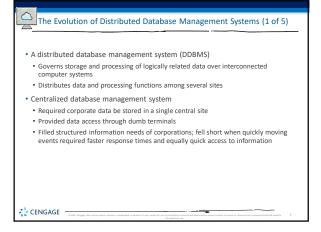
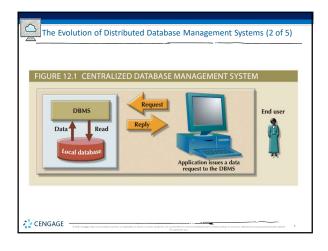
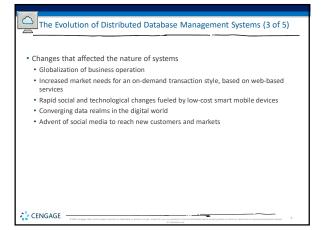


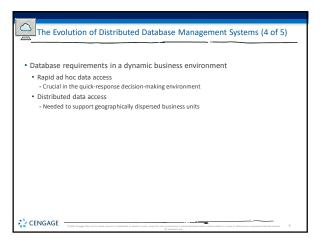
Chapter 12 Distributed Database Management Systems

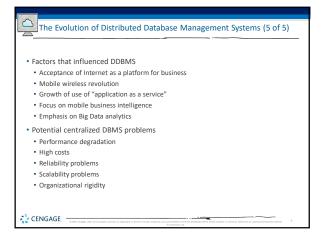


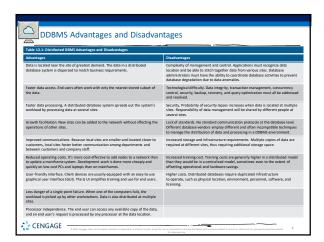


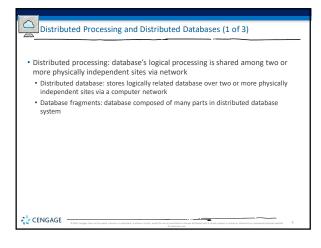


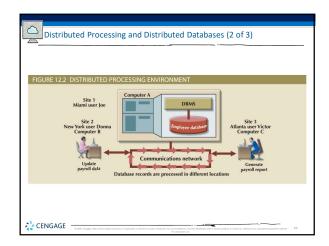


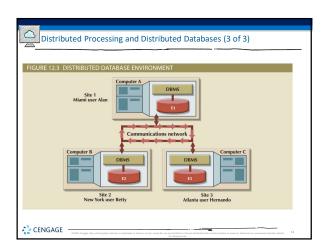


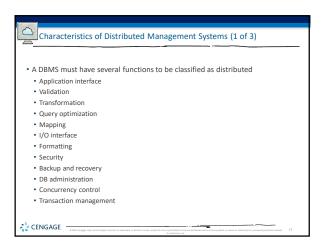


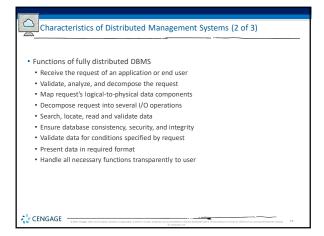


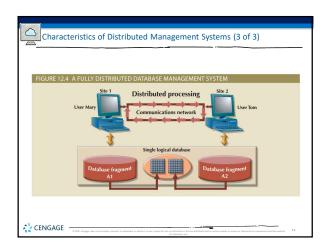


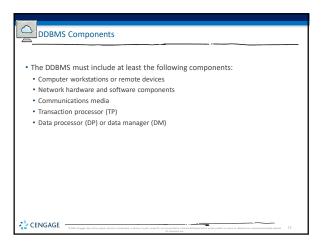


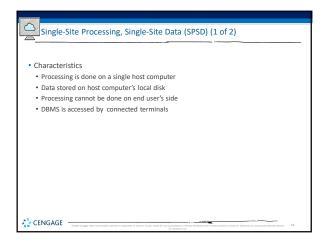


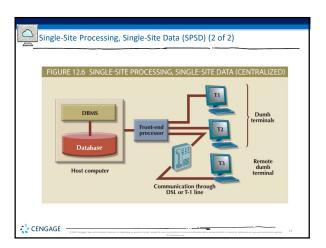


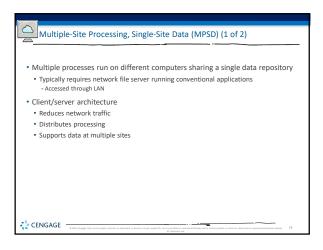


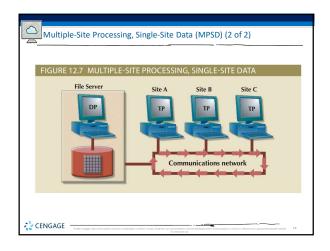


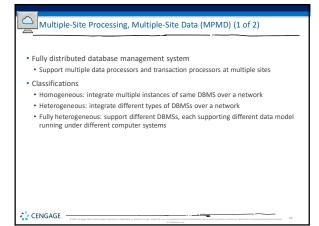


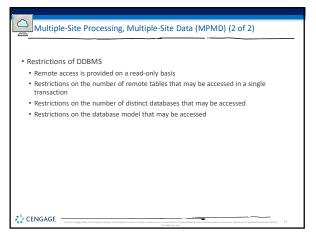












Distributed Database Transparency Features	
Minimum desirable DDBMS transparency features	
Distribution transparency	
Transaction transparency Failure transparency	
Performance transparency	
Heterogeneity transparency	
	-
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Distribution Transparency	
Allows management of physically dispersed database as if centralized	
Levels: fragmentation, location, and local mapping	
- Unique fragment: each row is unique, regardless of the fragment in which it is located	
 Supported by distributed data dictionary (DDD) or distributed data catalog (DDC) - DDC contains the description of the entire database as seen by the database administrator 	
Distributed global schema: common database schema to translate user requests into	
subqueries	
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<u> </u>	
Transaction Transparency	
 Transaction transparency: DDBMS property that ensures database transactions will maintain the distributed database's integrity and consistency 	
Ensures transaction completed only when all database sites involved complete their	
part	
Distributed database systems require complex mechanisms to manage transactions.	
transactions • Ensure the database's consistency and integrity	
	-

