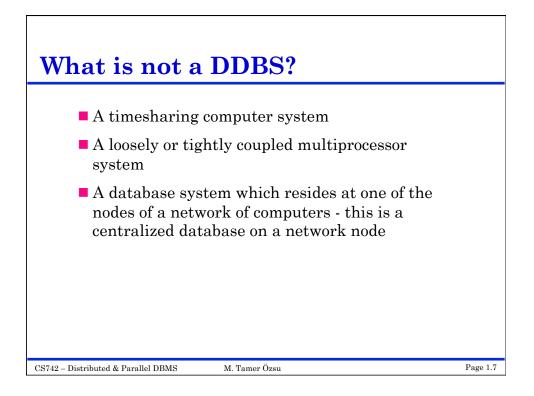
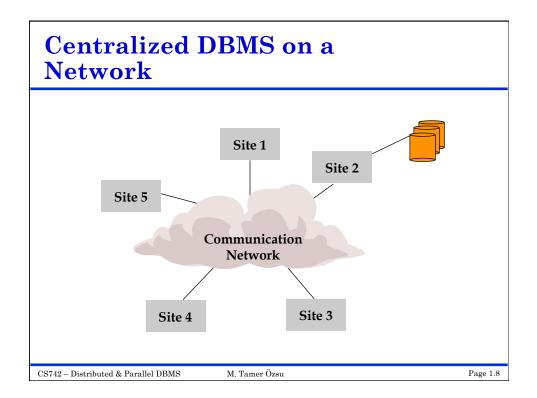
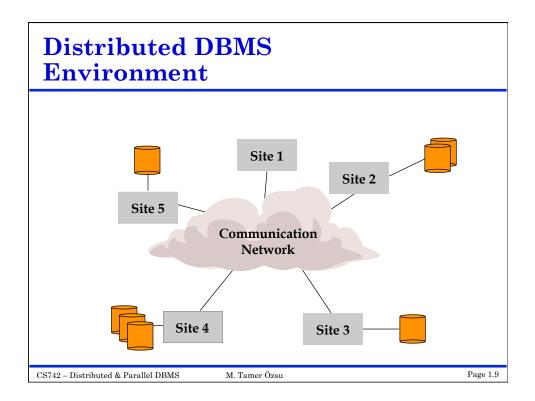
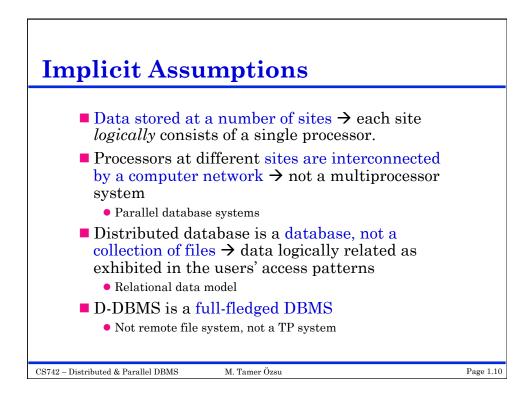


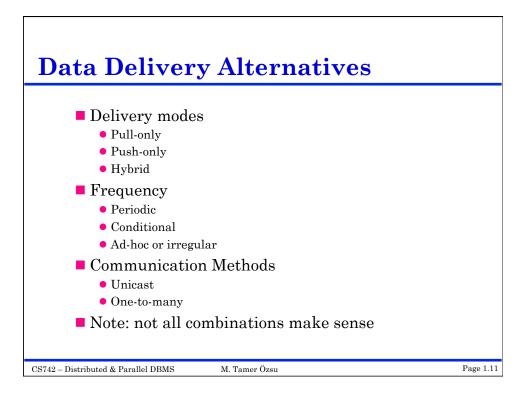
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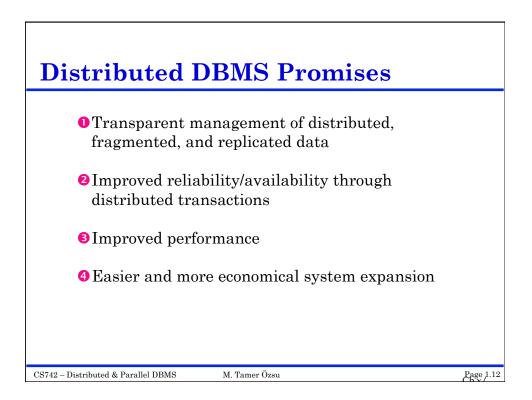


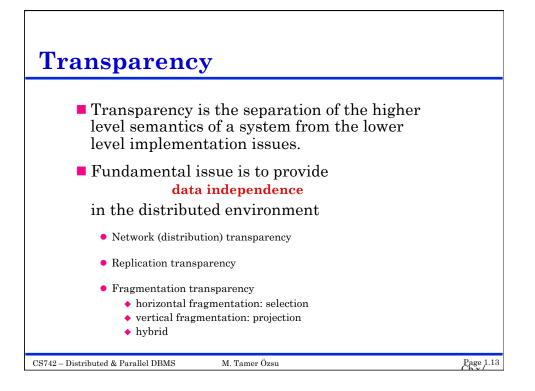




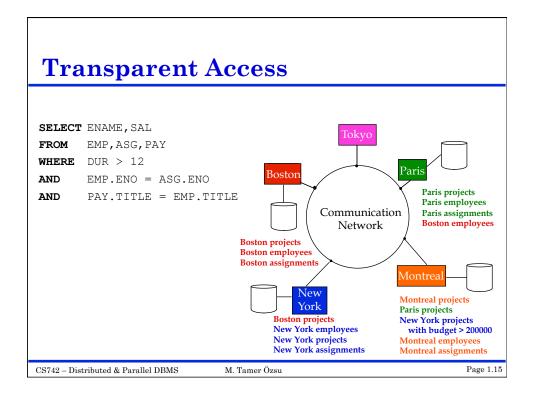


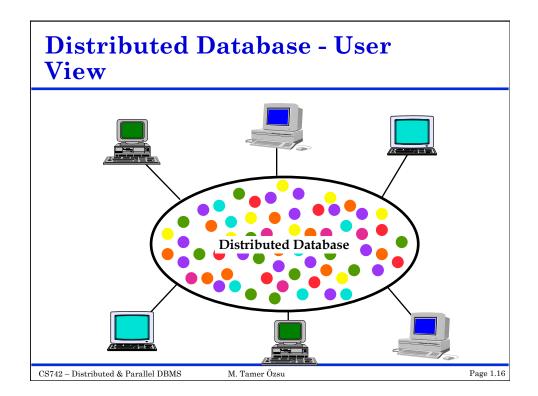


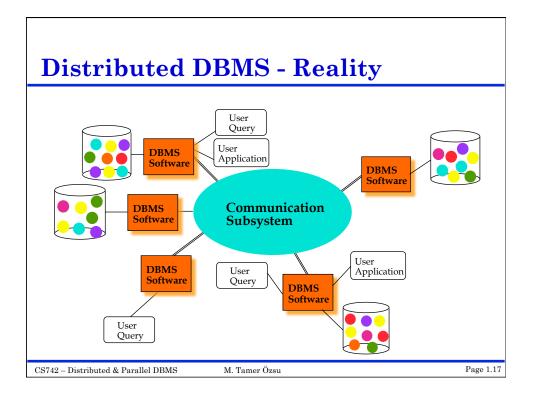


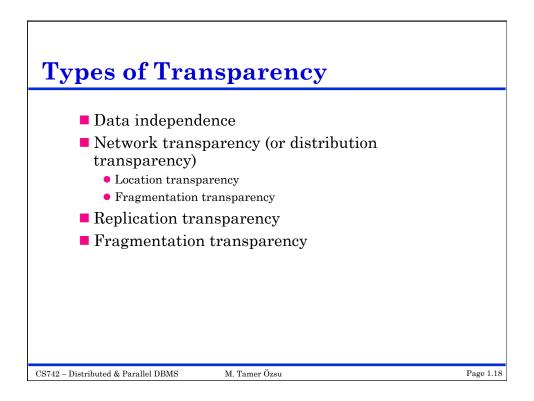


Example)							
EMP				ASG				
EN	O ENAME	ENAME TITLE		ENO	PNO	RESP	DUR	
E	1 J. Doe	Elect.	Eng	E1	P1	Manager	12	
E	2 M. Smith	Syst. A	nal.	E2	P1	Analyst	24	
E	3 A. Lee	Mech.		E2	P2	Analyst	6	
E	4 J. Miller	Progra	~ I	E3	P3	Consultant	10	
E	5 B. Casey			E3	P4	Engineer	48	
E	3 L. Chu	Elect.	Eng.	E4	P2	Programmer	18	
E	7 R. Davis	Mech.	~	E5	P2	Manager	24	
E	B J. Jones	Syst. A	nal.	E6	P4	Manager	48	
				E7	P3	Engineer	36	
				E8	P3	Manager	40	
PRO	J					PAY		-
PN	D PNAM	PNAME BUI Instrumentation 150 Database Develop. 135 CAD/CAM 250 Maintenance 310		т		TITLE	SAL	
P1	Instrumenta					Elect. Eng.	40000	
P2	Database D					Syst. Anal.	34000	
P3	CAD/CAM					Mech. Eng.	27000	
P4	Maintenanc					Programmer	24000	











- Replicated components and data should make distributed DBMS more reliable.
- Distributed transactions provide
 - Concurrency transparency
 - Failure atomicity
- Distributed transaction support requires implementation of
 - Distributed concurrency control protocols
 - Commit protocols

Data replication

- Great for read-intensive workloads, problematic for updates
- Replication protocols

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