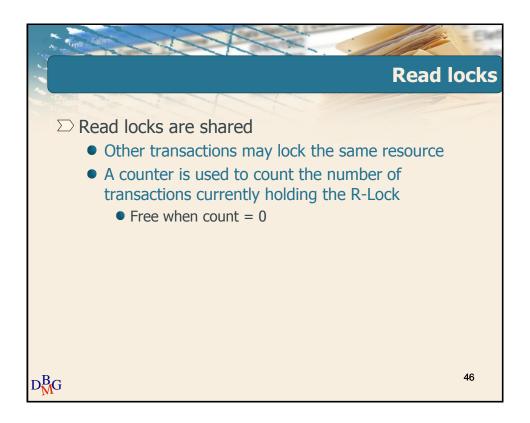
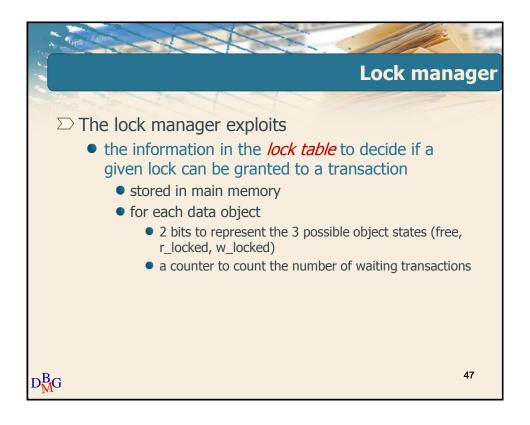
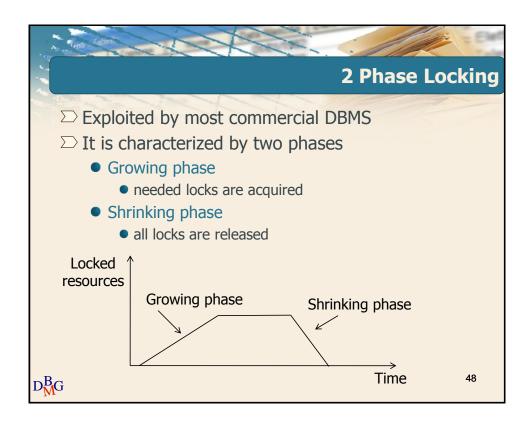


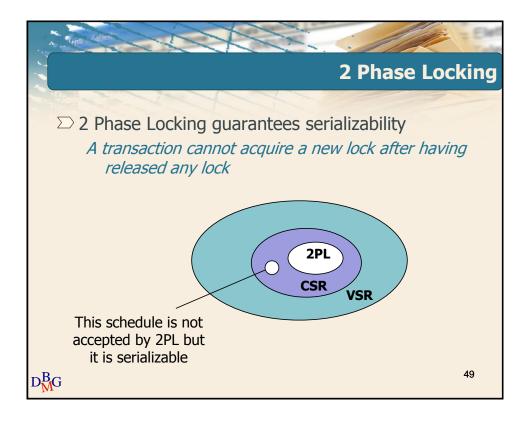
	Conflict table										
	Request	Resource State									
		Free	R-Locked	W-Locked							
	R-Lock										
	W-Lock										
	Unlock										
D_{N}^{B}	G			43							

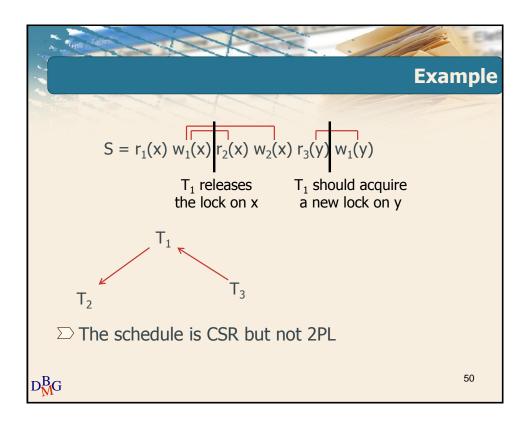


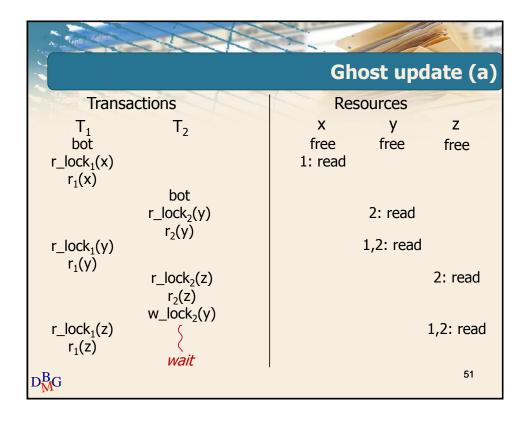


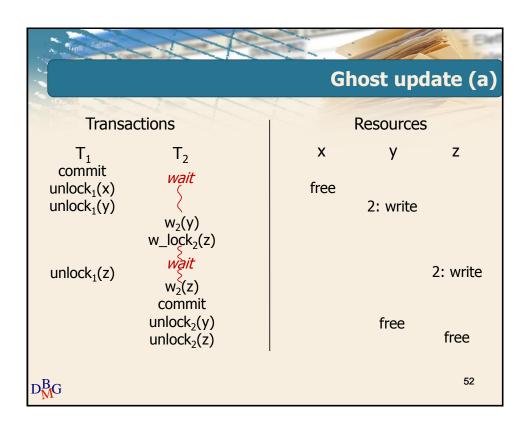


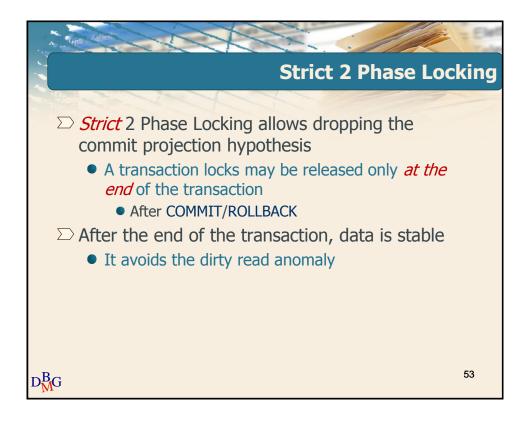


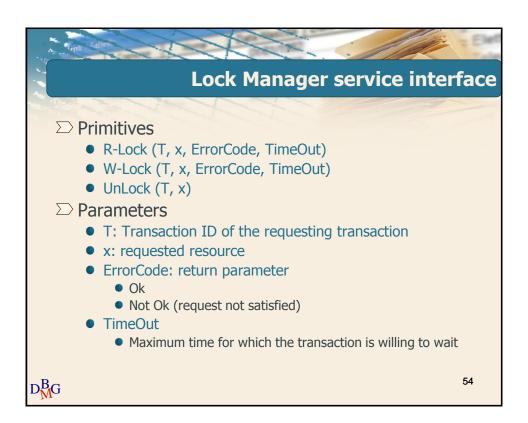


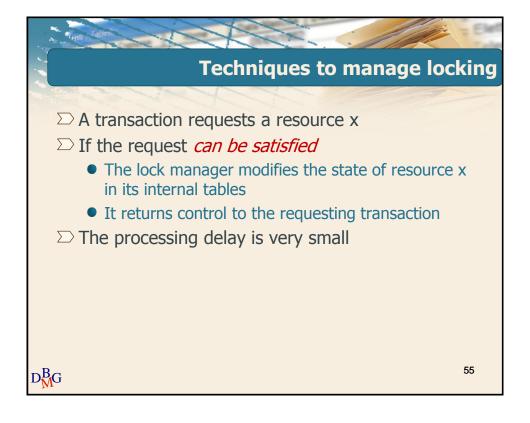




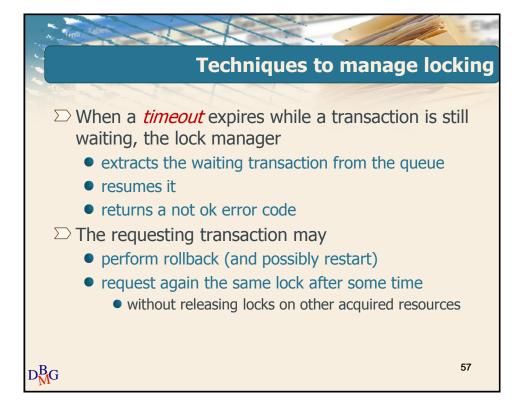


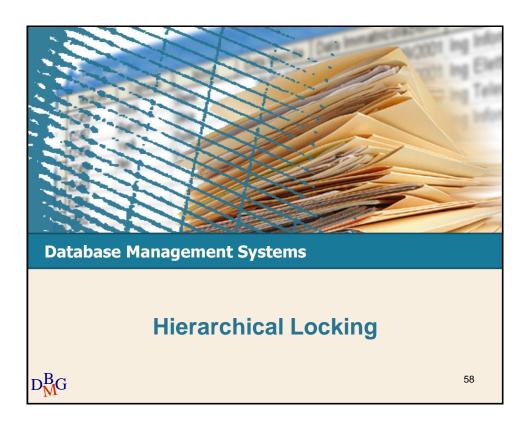


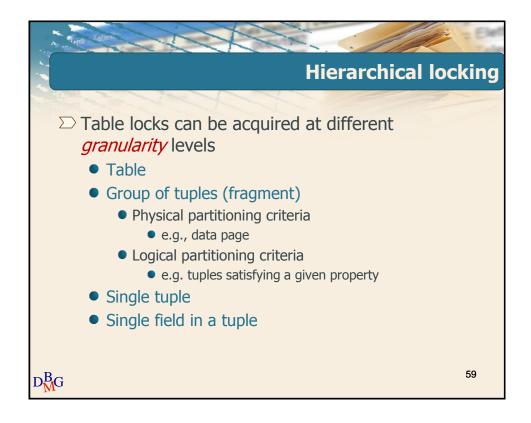


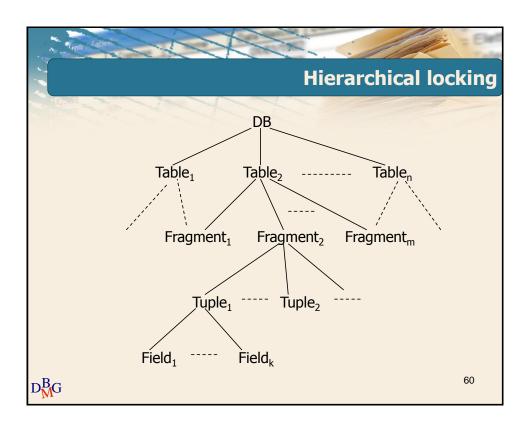


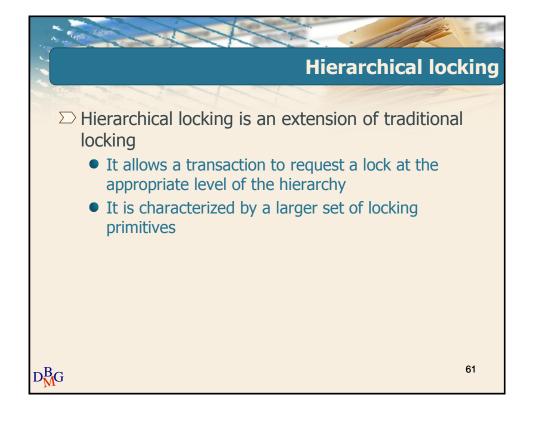
Techniques to manage locking ☐ If the request *cannot be satisfied* immediately • The requesting transaction is inserted in a waiting queue and suspended When the resource becomes available • the first transaction (process) in the waiting queue is resumed and is granted the lock on the resource \supset Probability of a conflict $\approx (K \times M)/N$ K is the number of active transactions M is the average number of objects accessed by a transaction N is the number of objects in the database 56 $D_{M}^{B}G$



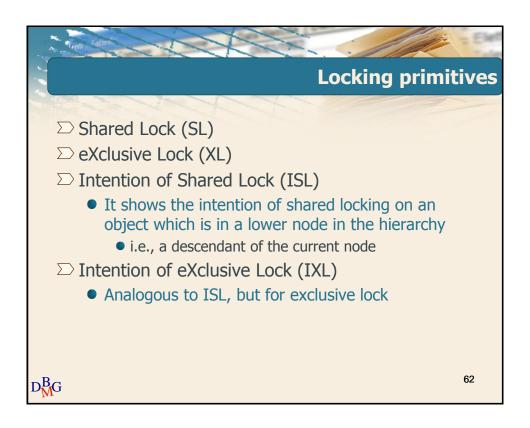


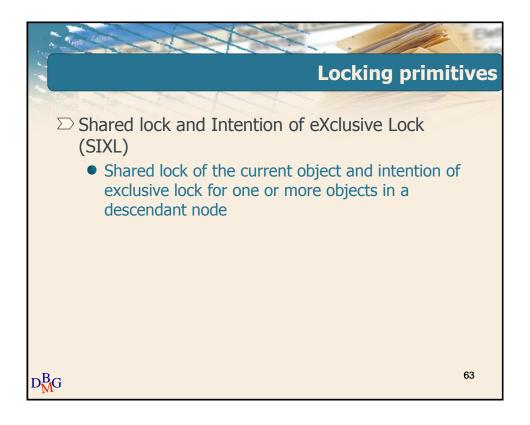


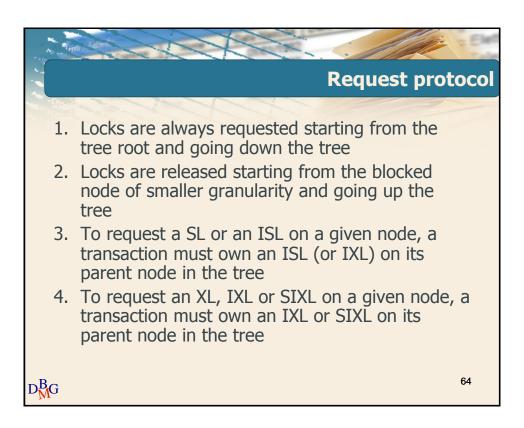




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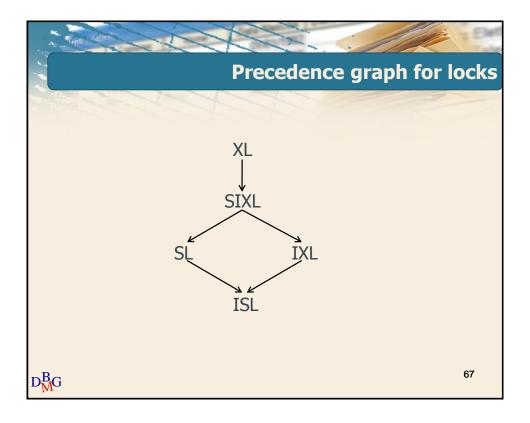


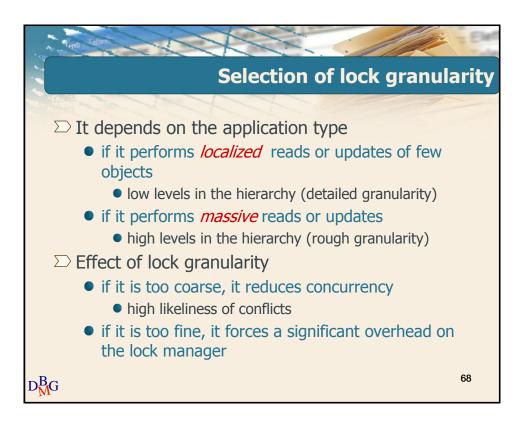


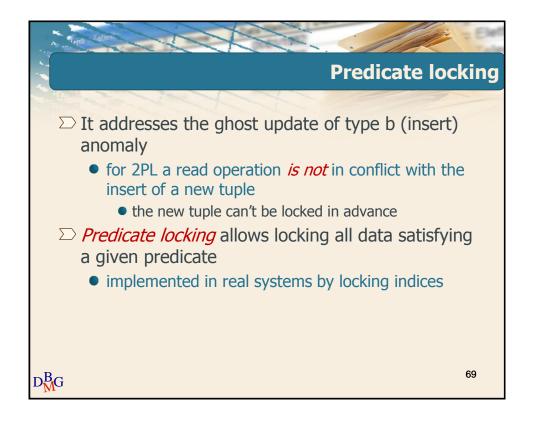


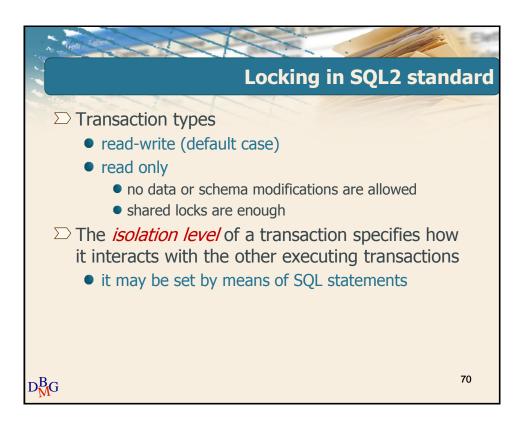
(Marie Albert		Compatibility matrix						
	Resource State							
Request	ISL	IXL	SL	SIXL	XL			
ISL								
IXL								
SL								
SIXL								
XL								
D <mark>B</mark> G					65			

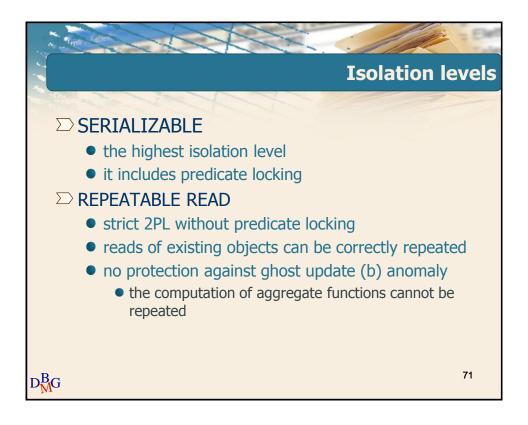
Compatibility matrix										
	Resource State									
Request	ISL	IXL	SL	SIXL	XL					
ISL	Ok	Ok	Ok	Ok	No					
IXL	Ok	Ok	No	No	No					
SL	Ok	No	Ok	No	No					
SIXL	Ok	No	No	No	No					
XL	No	No	No	No	No 66					
$D_{M}^{B}G$										

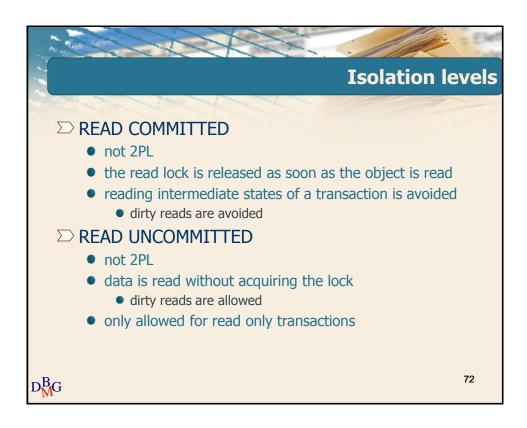


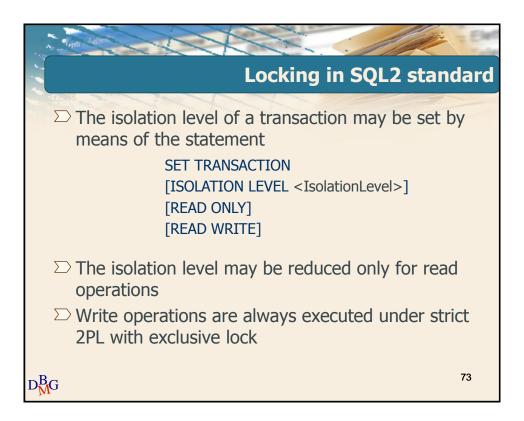


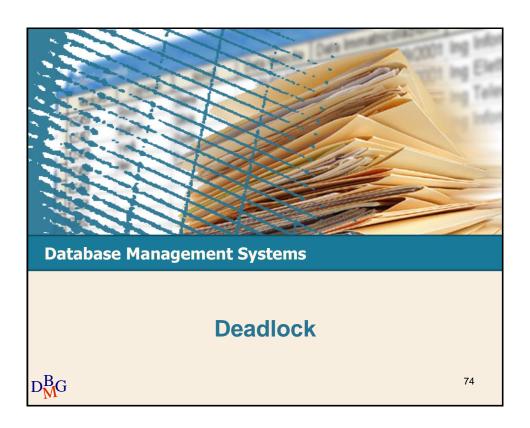


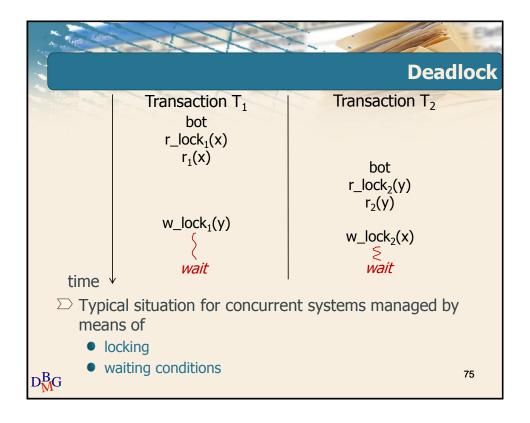


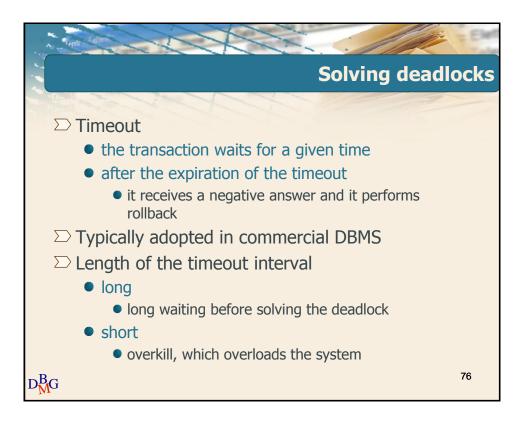


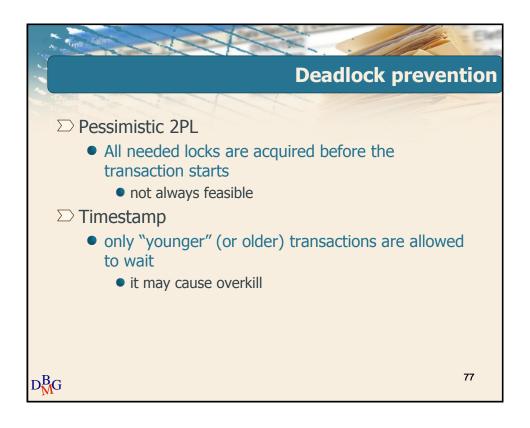


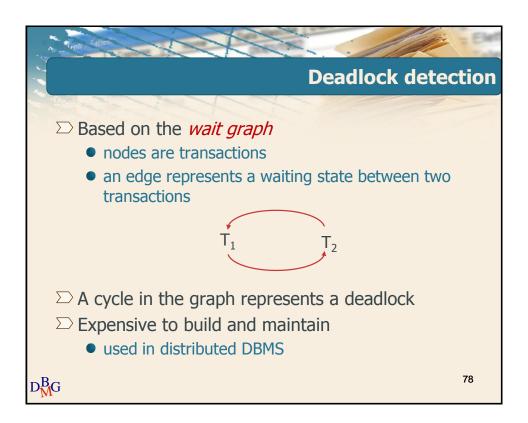












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