

Recovery – Garbage Collection mit CP

Nr.	Logeintrag	Aktiv	Commit	Abort
1	[T0, A, 30]	T0		
2	[T0, B, 20]	T0		
3	[T0, C, 10]	T0		
4	[T0, D, 0]	T0		
			T0	
5	[T1, A, 12]	T1	T0	
6	[T1, B, 15]	T1	T0	
7	[T2, A, 9]	T1, T2	T0	
Garbage Collection 1				
8	[T2, C, 18]	T1, T2	T0	
		T2	T0	T1
Garbage Collection 2				
9	[T3, D, 8]	T2, T3	T0	T1
		T3	T0, T2	T1
	Cache Consistent Checkpoint	Geht nicht für No-Undo!		
Garbage Collection 3				
10	[T4, A, 15]	T3, T4	T0, T2	T1
		T4	T0, T2, T3	T1
			T0, T2, T3	T1, T4
Garbage Collection 4				

RM Typ	Redo / Undo	No-Redo / Undo	Redo / No-Undo	No-Redo / No-Undo
Garbage Collection 1	-	-	-	kann alles gelöscht werden
Garbage Collection 2	5,6	5,6	5,6	...
Garbage Collection 3	1,3	1,3	1,3 (CP ignoriert!)	...
Garbage Collection 4	10,4	10,4	10,4	...

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3	[T0, C, 10]	T0		
4	[T0, D, 0]	T0		
			T0	
	Cache Consistent Checkpoint			
5	[T1, A, 12]	T1	T0	
6	[T1, B, 15]	T1	T0	
7	[T2, A, 9]	T1, T2	T0	
Garbage Collection 1				
8	[T2, C, 18]	T1, T2	T0	
		T2	T0	T1
Garbage Collection 2				
9	[T3, D, 8]	T2, T3	T0	T1
		T3	T0, T2	T1
Garbage Collection 3				
10	[T4, A, 15]	T3, T4	T0, T2	T1
		T4	T0, T2, T3	T1
			T0, T2, T3	T1, T4
Garbage Collection 4				

RM Typ	Redo / Undo	No-Redo / Undo	Redo / No-Undo	No-Redo / No-Undo
Garbage Collection 1	-	-	(1,2),3,4	

